

2014 – 2015 Catalog



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SAINT PAUL COLLEGE

2014–2015 CATALOG

Saint Paul College—A Community & Technical College 235 Marshall Avenue • Saint Paul, MN 55102 651.846.1600 • www.saintpaul.edu



Start here. Go anywhere.

Saint Paul College—A Community & Technical College reserves the right to change without notice any information published in this catalog. This catalog is not a contract. The College makes every effort to provide the courses, programs and services outlined in this catalog. However, academic calendars and the delivery of services are subject to modification. Furthermore, course delivery methods (e.g. traditional, online and other) are subject to change without prior notice in the case of emergency or other action deemed necessary by the College.

The name of the organization is Saint Paul College—A Community & Technical College, hereinafter referred to interchangeably as "the College" in policy and procedure statements.

Saint Paul College—A Community & Technical College is committed to a policy of nondiscrimination in employment and education opportunity. No person shall be discriminated against in the terms and conditions of employment, personnel practices, or access to and participation in, programs, services, and activities with regard to race, sex, color, creed, religion, age, national origin, disability, marital status, status with regard to public assistance, sexual orientation, gender identity, gender expression, or membership or activity in a local commission as defined by law.

Harassment of an individual or group on the basis of race, sex, color, creed, religion, age, national origin, disability, marital status, status with regard to public assistance, sexual orientation, gender identity, gender expression, or membership or activity in a local commission has no place in a learning or work environment and is prohibited. Sexual violence has no place in a learning or work environment. Further, Saint Paul College shall work to eliminate violence in all its forms. Physical contact by designated College staff members may be appropriate if necessary to avoid physical harm to persons or property.

Saint Paul College is committed to fostering an environment without discrimination and harassment. The College has a complaint process to review complaints of discrimination, harassment and sexual violence. Inquiries regarding compliance to Federal and State Laws and Statutes may be addressed to Thomas Matos, Associate Vice President of Student Development & Services, who can be reached at 651.846.1362.

Refer to the Saint Paul College Student Handbook for important information that each student should read to assure success at the College.

Available in Alternate Format

This document is available in alternative formats to individuals with disabilities by contacting Caidin Riley, Director of Disability Services at 651.846.1547 or caidin.riley@saintpaul.edu. For TTY Communication, contact the Minnesota Relay Service at 7-1-1 or 1.800.627.3529.

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Fax
Academic Success Coordinators
Alumni Relations
Assessment, Intake
Bookstore
Career and Placement Center
Child Care Center
Counseling651.846.1383
Disability Services
English for Speakers of Other
Enrollment Services
Financial Aid651.846.1386 www.saintpaul.edu/FinancialAid
Foundation/Friends of Saint Paul College 651.846.1469 www.saintpaul.edu/Foundation
IT Services/Help Desk651.846.1440
Library/Learning Commons
Public Safety
Registration & Student Records
Student Life
Student Records and Transcripts651.846.1515
Transfer Center
Tuition Office
Tutoring/Academic Support
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College Calendar 2014-15

Fall Semester

August 25, 2014 – December 19, 2014

Fall Semester Begins
Labor Day – College Closed 08/30 – 09/01/14
Saturday Classes Begin 09/06/14
No Classes 10/16 – 10/17/14
Veterans Day – College Closed
Thanksgiving – College Closed 11/27 – 11/30/14
Saturday classes end
Final Exams 12/13 – 12/19/14
Fall Semester Ends 12/19/14

Spring Semester

January 12, 2015 - May 15, 2015

Spring Semester Begins 01/12/15
Saturday Classes Begin 01/17/15
Martin Luther King Day – College Closed 01/19/15
Presidents' Day – College Closed02/16/15
Professional Development
No classes before 4:00 pm
Spring Break 03/09 – 03/15/15
Saturday classes end
Final Exams 05/09 – 05/15/15
Graduation Ceremony 2014/201505/14/15
Spring Semester Ends

Summer Term

May 26, 2015 - July 31, 2015

Summer Term Begins	05/26/15
Independence Day Observed –	
College Closed	07/03/15
Summer Term Ends	07/31/15

2014 - 2015 Holidays - Campus Closed

Labor Day Weekend	. Aug 30 – Sept 1, 2014
Veterans Day Holiday	November 11, 2014
Thanksgiving Holiday	Nov 27 – 30, 2014
Martin Luther King Day	January 19, 2015
Presidents' Day	February 16, 2015
Independence Day Observed	July 3, 2015

Calendar is subject to change

For the most current information go to www.saintpaul.edu/CollegeCalendar

Welcome to Saint Paul College



Saint Paul College is a place that empowers students from all walks of life and places all around the globe as they navigate their different pathways. Whether your pathway is career and technical training, academic transfer, gaining skills to become a better employee, or enriching your life through life-long learning, we have a place for you at Saint Paul College!

We believe that our success is rooted in the thousands of students who find a home at Saint Paul College every year. Saint Paul College has been ranked the #1 community college in the nation by Washington Monthly magazine in 2010 and again in 2013, for student engagement in active and collaborative learning, student-faculty interaction, and support for learning. If you are looking for a caring, supportive and challenging learning environment where dedicated and knowledgeable faculty and staff are committed to your future and success, then Saint Paul College is the right place for you.

Saint Paul College has a tremendous impact on the vibrant

City of Saint Paul and surrounding communities. For over 100 years, the College has been here to serve the citizens, local industries and above all else, the students. With deep roots in career and technical education, along with academic transfer, Saint Paul College has prepared over 40,000 students for employment or transfer to four-year colleges and universities.

I would like to personally invite you to visit our beautiful campus. Take a tour and see our classrooms and hands-on laboratory and training facilities; talk to our student ambassadors, staff and faculty and experience our campus community. Our newly renovated Learning Commons area provides a technology-friendly space for students to study and meet with friends and classmates.

When you visit Saint Paul College, I hope you notice "The student is" document that we have posted around our campus. It is our promise to you, and a reminder to ourselves, that the student is the most important person on our campus – for without you there would be no need for our college. As you walk around our college, I hope you see what I see – that our team of staff and faculty advance the human cause through respect, individuality and civility—it happens here each and every day. We truly care about our students and each other.

On behalf of our faculty, staff and administrators, I want to thank you for considering Saint Paul College as your educational partner and your pathway to a bright future. We look forward to working with you each step of the way.

Best wishes for success with your college plans and your personal goals. Remember, when you *start here*, you can *go anywhere!*

Sincerely,

Rassoul Dastmozd, Ph. D. President and CEO

Saint Paul College: Vision, Mission & Values

Vision

Saint Paul College will be a leader in providing comprehensive lifelong learning through innovative and quality focused strategies and services.

Mission

The mission of Saint Paul College is to provide: Education for Employment...Education for Life!

Saint Paul College offers comprehensive learning opportunities in career and transfer education to enhance personal knowledge and advance economic opportunity for the benefit of a diverse population including students, business/industry/labor and the community.

values

Excellence

Teaching & Learning Career & Transfer Education Student-Focused Services Innovation Accessibility Technology

Integrity

Honesty Accountability Decision-Making Climate Responsiveness

Respect

Student-Centered Cultural Diversity/Inclusiveness Human Diversity Collaboration



Our Values

The College mission and goals are based on its values which are central to an effective learning organization.

Saint Paul College — A Community & Technical College is committed to the following values.

Excellence

- Teaching & Learning
- Career & Transfer Education
- Customer Service
- Innovation
- Accessibility
- Technology

Integrity

- Honesty
- Accountability
- Decision-Making
- Climate Responsiveness

Respect

- Student Centered
- Cultural Diversity/Inclusiveness
- Human Diversity
- Collaboration

Strategic Goals

aligned with the strategic framework of Minnesota State Colleges and Universities system

MnSCU Strategic Direction 1: Ensure access to an extraordinary education for all Minnesotans.

1. Maximize comprehensive, high-quality learning, programs and services.

Saint Paul College is committed to excellence in teaching and learning, and offers a wide spectrum of learning opportunities and delivery methods in career and transfer education to address learners' present and future needs.

- Provide seamless, comprehensive learning opportunities through innovative academic programs for diverse learners.
- Apply technology to enhance teaching and learning and to maximize effectiveness.
- Assess academic programs, student services, student achievement and instructional accountability.
- Pursue new and continuing national, regional and professional accreditation.

2. Expand access, service, opportunity and success.

Saint Paul College is dedicated to an integrated service philosophy that focuses on learner needs.

- Enhance the learner-centered success model to improve student performance in key indicators.
- Collaborate with secondary educational institutions and community organizations to promote college readiness and student success.
- Partner with other higher educational institutions to increase learning options for students.

MnSCU Strategic Direction 2: Be the partner of choice to meet Minnesota's workforce and community needs.

3. Strengthen organizational, community and global partnerships to enhance economic competitiveness.

Saint Paul College is committed to apply systems to improve learning, communication and productivity.

- Promote the College as a key provider of high quality life-long learning for employment and/or transfer.
- Provide continuing education and short-term training to meet workforce and community needs.
- Build strong relationships/partnerships with alumni, local, state, regional, national and international constituents.
- Develop and expand outreach services and partnerships to support regional vitality.

MnSCU Strategic Direction 3: Deliver the highest value / most affordable option by designing the Minnesota State Colleges and Universities system of the future.

4. Optimize organizational innovation and development.

Saint Paul College strives to ensure a successful future through creative thinking, shared services and the implementation of quality principles.

- Build organizational capacity for change to meet future challenges and remove barriers to innovation and responsiveness.
- Empower employee engagement to foster innovation.
- Apply technologies to improve communication and productivity.
- Maximize the use of physical resources.
- Utilize all resources to enhance effectiveness, increase efficiencies and improve learning and operations.

5. Sustain financial viability during changing economic and market conditions.

Saint Paul College is committed to ensuring its longtime financial sustainability.

- Make budget decisions that reflect priorities in core mission and fiscal stewardship.
- Utilize sound financial management and assessment practices.
- Increase student financial literacy and pursue new ways to reduce default rates.
- Expand institutional fundraising to generate additional scholarships and grants.

General Information and Services

General Information

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General Information

Accreditation

Saint Paul College—A Community & Technical College is accredited by The Higher Learning Commission of the North Central Association of Colleges and Schools.

The College also holds professional accreditation from:

- American Culinary Federation Education Foundation's Accrediting Commission (ACFEF)
- Commission on Accreditation for Respiratory Care (CoARC)
- National Accrediting Agency for Clinical Laboratory Sciences
- Accreditation Commission for Education in Nursing (ACEN)
- Association of Collegiate Business Schools and Programs (ACBSP).

Saint Paul College meets established standards and is approved for the instruction of veterans, orphans of war veterans, state and federal rehabilitation students and members of the workforce needing training or retraining. Saint Paul College meets the definition of an institution of higher education and students are entitled to participate in federal financial assistance programs.

Minnesota State Colleges and Universities

Saint Paul College is one of the 31 colleges and universities in the Minnesota State Colleges and Universities system. The colleges in the system provide a wide array of opportunities for lifelong education in academic and technical fields, ranging from short-term certificate programs to doctoral programs. Approximately 33,500 students graduate from Minnesota State Colleges and Universities each year. Refer to the System Web site <u>www.mnscu.edu</u> for further information.

Alliances and Memberships

Students, Alumni & the Employer Connection

Saint Paul College offers undergraduate programs of two years or less to a widely diverse student population. Students are welcome regardless of their background, experience, or previous educational endeavors. The common goal of all students, however, is their desire for Education for Employment... Education for Life!

Alumni Relations

The College sponsors an Alumni Association to complement the educational process. All Saint Paul College graduates are encouraged to join. Call 651.846.1469 or visit www.saintpaul.edu/Alumni for further information.

Alliances with Business and Industry

Saint Paul College's greatest asset is its success in providing employment opportunity for graduates. This is due to its partnerships with the businesses, industries and trade unions with whom we collaborate. Saint Paul College relies on these major stakeholders to:

- 1. Hire our graduates;
- 2. Serve on our Advisory Committees to ensure relevant and current curriculum content and instruction; and
- 3. Provide quality assurance and identity within the community.

The College's relationships with businesses, industries, trade unions and alumni have remained strong to help ensure that the tradition of quality will be continuously enhanced through information, involvement and improvement.

Workforce Training & Continuing Education (WTCE)

The Workforce Training and Continuing Education division at Saint Paul College serves the non-credit educational and professional development needs of organizations and individuals in the greater metropolitan area. For over 20 years, Saint Paul College's Workforce Training & Continuing Education division has delivered high quality workforce training and continuing education ranging from development of assessments to consulting with business to meet industry, government, non-profit organizations, entrepreneurs, and individual needs, resulting in recognized credentials that boost performance and career opportunities. We are committed to your organizational and individual success!

Workforce Training

Workforce training provides quality training programs delivered at your location, online or on campus. We assist businesses and organizations in staying informed and knowledgeable about advances and best practices pertinent to workplace skills, leadership, organizational sustainability, and business solutions.

Training is provided in the format that best meets the needs of the client, for example:

- Offering over 100 unique courses through Web-based training.
- Presenting seminars on pertinent and timely topics for industry partners and individual professional development.
- Designing hands-on experiential workshops to promote application of newly acquired behaviors, attitudes, or skills.
- Enhancing skills or specific knowledge relating to career and professional development through continuing education courses.

Continuing Education

Continuing Education provides adult learners the opportunity to enroll in non-credit courses that build career related skills for personal or professional enrichment. Choose from online or classroom-based courses in a variety of fields and content areas.

Examples of training offered through WTCE:

- AutoCAD Training
- Business Management
- Business Writing
- Coaching
- Communication Skills
- Computer Applications
- Customer Service
- Entrepreneurship
- Esthetics Re-licensure and Training
- Health Care
- Leadership/Management
- Motorcycle Training
- Renewable Energy Certification and Training
- Quality Assurance
- Safety
- ServSafe® Certification
- Software Training
- Supervisory & Management Training
- Welding
- Workers Compensation

All WTCE classes can be offered at your work site or custom tailored to meet your employees' needs. Call 651.846.1800 or visit <u>www.saintpaul.edu/WTCE</u> for more information.

Enrollment Services

Admissions Process

Saint Paul College welcomes applications for admission to the College. Admission to college majors is based on assessment results and potential to succeed in a program. Admission to many individual courses is open; however, admission to some courses is based on meeting course prerequisites and program admission requirements.

Students seeking admission to Saint Paul College who have attended another college or university and do not meet Saint Paul College's Satisfactory Academic Progress Standards must appeal for admission.

Admission to a Major Program

Students are accepted into a major program for the purpose of obtaining a specific degree, diploma, or certificate. Students may change their major program by meeting the prescribed admission requirements for the desired program.

Application Procedure

If you have not applied to or enrolled at Saint Paul College in the past, follow this application procedure:

- 1. Complete an Application for Admission online at <u>www.saintpaul.edu/apply</u>.
- 2. There is a one time, non-refundable \$20 application fee. Saint Paul College is currently waiving the application fee.

- 3. Complete the Assessment in Reading, Writing, and Math or complete the English as a Second Language (ESL) Assessment if you are a nonnative speaker of English. Call 651.846.1555 for more information. Scores must be turned in to the Office of Enrollment Services. A student may be exempted from taking this Assessment based on documentation of subject area test scores on the ACT exam taken within the last three (3) calendar years for Reading and Writing and two (2) calendar years, for Mathematics. If you have taken the ACT or SAT test within the last three (3) years, please bring a copy of your scores to the Transfer Center (Room 1365) for further review.
- 4. Request high school transcripts and/or GED scores, as well as official transcripts from all secondary and post-secondary institutions attended be sent to Saint Paul College.
- 5. If you have previously applied, enrolled, or requested information from Saint Paul College please contact the Office of Enrollment Services so your records can be updated.

Some major programs require additional assessment. Applicants will be notified if their program requires additional assessment.

Assessment requirements may be waived based on previous college experience as validated by college transcripts or determined by the Director of Enrollment Services.

Intake Assessment

Saint Paul College and the Minnesota State Colleges and Universities system require assessment of basic academic skills. The College uses the ACCUPLACER[™] assessment tool.The assessment for English native language speakers covers reading comprehension and mathematical computation.

The assessment for students whose native language is not English is the English as a Second Language (ESL) assessment. This assessment covers the understanding of English grammar structures and listening comprehension. Students may be assessed in additional subjects for admission to selected programs or placement into certain courses.

These assessments are available on an individual, walk-in basis in the Assessment Center in Room 3115 and usually take from 1 1/2 to 2 1/2 hours to complete. ESL assessment scores determine ESL course placement. In some cases, assessment results may indicate that the student may benefit from developmental coursework in reading, writing, grammar and/or math prior to entering a major program.

Please call 651.846.1555 for group accommodation and additional information about the assessment process.

The assessment requirement may be waived depending on previous college experience, college coursework, or ACT/SAT subject area test scores. Contact the Transfer Center to have previous college transcripts reviewed for an assessment waiver.

Immunization Requirements

Minnesota Law (M.S. 135A.14) requires that all students born after 1956 and enrolled in a postsecondary educational institution be immunized against measles, rubella, mumps and diphtheria, and tetanus after 12 months of age and within 10 years of first registration, allowing for certain specified exemptions. Students must submit a statement indicating the month and year of each immunization at the first registration for classes or no later than 45 days after the start of their first term. Students born in 1956 or before are not required to provide this information. Students who graduated from a Minnesota high school in 1997 or later are also exempt.

The Immunization Record form is designed to provide the College with the information required by law and will be available for review by the Minnesota Department of Health. Students enrolled in Health programs are required to obtain additional immunizations in accordance with clinical site policy. For more information regarding immunization requirements and resources available to meet those requirements, contact Enrollment Services.

Application Procedure for Transfer Students

Students seeking admission to Saint Paul College based on previous college coursework should contact the Transfer Center at transfer.center@saintpaul.edu or 651.846.1739.

Students seeking a degree, diploma or certificate, who have previously attended accredited institutions, must have all official transcripts sent directly from the previous colleges to the Saint Paul College Records Office. If a transcript is hand carried by the student, it is to be delivered in a sealed envelope. Student copies and faxed transcripts are not considered official but can be used for admission purposes.

Re-Admission

Students who have interrupted attendance at Saint Paul College must contact the Office of Enrollment Services to apply for re-admission. To have assessment tests waived based on coursework completed at another institution, contact the Transfer Center at 651.846.1739.

Undeclared Students

Students not intending to pursue an academic award may apply to the College as an undeclared student. Some classes may be limited to students admitted to a specific major or may have course prerequisites. Undeclared Students are not assigned a faculty advisor and do not qualify for financial aid or veterans' educational benefits.

If at a later date the student decides to pursue a degree, diploma or certificate, the credits earned as an 'Undeclared' Student may apply toward a program.

Change of Major

Students who have been admitted to Saint Paul College in a specific major program and want to change that program need to complete the Change of Major Form at the Office of Enrollment Services. Mid-semester major program changes are not permitted. The change of major program will be effective for the next semester.

Credit for Prior Learning

Saint Paul College offers adult students with sufficient work, non-college credit and/or life experiences the opportunity to document competencies relevant to specific course offerings at the College for prior learning credit. Credits earned from prior learning must be applicable to the student's program of study at Saint Paul College and are evaluated for credit by qualified faculty members. Credit for Prior Learning is not available if a CLEP exam exists for that course. Note: Credits earned through Credit for Prior Learning may not transfer to other colleges.

Post-Secondary Enrollment Options Program (PSEO)

The PSEO program enables eligible Minnesota high school sophomores, juniors and seniors to take college classes for credit. The purpose of the program is to promote rigorous academic pursuits and provide a wider variety of options than may be available in high school. Eligible students may attend either part-time or full-time. Tuition, fees and textbooks are provided at no cost to the student. For more information about the PSEO program, please contact the Office of Enrollment Services at 651.846.1713.

High School Articulated Credit

Articulated Credit affords high school students an opportunity to receive college credit in many subjects. Articulated Credit programs effectively blend academic and technical education in a challenging and purposeful course of study that can lead to employment and credit toward further education. Since the workplace has changed significantly enough to require some training after high school, but not necessarily a full four-year degree, articulated credit programs offer viable new options for high school students who want to connect learning with life. Articulated credit is awarded for high school classes in Business, Child Development, Culinary Arts, Carpentry, Automotive Service and many other subjects. Many programs are articulated between Saint Paul Public Schools and Saint Paul College. Consult a high school counselor for more information concerning Articulated Credit.

Transfer of Credits from Other Institutions

Saint Paul College will review requests for transfer credit from individuals who completed coursework at other accredited post-secondary institutions. The number of credits transferred to Saint Paul College is dependent upon the specific requirements of each program or degree offered at Saint Paul College. Transfer credits will appear on the Saint Paul College transcript and can be used to satisfy the program graduation requirements but will not be used to calculate the grade point average. Course test-outs taken at another College or University are not transferable to Saint Paul College.

Students interested in receiving transfer credit must submit official transcripts to the Student Records Office. Upon admission to the College, transcripts will automatically be reviewed to determine transferable credits. Each credit to be considered for transfer must be supported by an official transcript from the originating institution and must be approved by a transfer specialist and/or the student's Faculty Advisor prior to the awarding of credit. Students who change programs should request a re-evaluation of their transcript credit.

Transfer of Credit Policies

Transfer of credit and courses will be evaluated based on policies and procedures of Saint Paul College, as outlined in Saint Paul College's catalog, Minnesota State Colleges and Universities system policies and procedures and according to Family Educational Rights and Privacy Act (FERPA).

Institution Accreditation

Transfer of credit will be considered for college level coursework completed at accredited institutions:

- Regionally Accredited: Degree-granting public, private, nonprofit and for-profit, two-and four-year institutions in the United States accredited by The Higher Learning Commission, (a Commission of North Central Association of Colleges and Schools) and/or parallel accrediting agencies in other regions of the United States.
- Nationally Accredited: Specialized institutions, including distance learning providers and freestanding professional schools recognized by the Council of Higher Education Accreditation (CHEA) and the U.S. Department of Education (USDE). Coursework will be considered on a course-by-course basis through a petition process and will be judged to be comparable or equivalent to courses offered at Saint Paul College.

Transfer Course Evaluation

Courses will be reviewed and considered for transfer as follows:

General education coursework completed at Minnesota State Colleges and Universities that fulfills the Minnesota General Education Transfer Curriculum (MnTC) will transfer based on the assigned goal area at the sending institution.

- General education coursework completed at the University of Minnesota or other institutions outside the Minnesota State Colleges and Universities system will be considered for transfer as:
 - Equivalent to a Saint Paul College general education course and MnTC Goal Area
 - Not equivalent to a specific Saint Paul College course, but will fulfill a MnTC Goal Area
- Coursework that is not general education will be considered for transfer as:
 - Equivalent to a specific course in a career program (within five years of course completion, if in a technical program)
 - Elective credit that does not apply toward general education or career course requirements (including technical courses over five years old)

Transfer Equivalency

Courses approved for transfer must be comparable in nature, content, and level and match at least 75% of the content and goals of the course syllabus for which the student is seeking equivalent credit.

Transfer Grades

All college level courses in which a student has received a grade of A, B, C, D or P/S will be considered for transfer evaluation. No F grade courses will be accepted. Please note that while D grades will transfer, some programs require a grade of C or higher for all courses to fulfill requirements.

Time Limit for Courses

General education courses shall have no transfer time limit. Additionally, technical courses applying toward an Associate of Arts degree shall have no transfer time limit.

To ensure students graduate with up-to-date skills, technical credits are valid for five years or have a five-year "lifespan." This includes transfer technical credits which are used for specific technical program requirements. Technical courses that are beyond the five-year limit may be accepted, based on currency, relevancy and the student's current work experience.

Degree Residency

A student shall earn a minimum of 20 credits for all associate degrees at the College. The residency requirement shall be reduced to 12 college-level credits for students transferring with at least 12 college-level credits from another Minnesota State Colleges and Universities institution or the University of Minnesota. One-third of the credits required for a diploma, certificate, or the Minnesota Transfer Curriculum (MnTC) must be earned at the College.

Equivalency

The number of transfer credits granted per course shall not exceed the number granted by the originating institution. All quarter credits will be converted to semester credits.

Additional Types of Credit

AP—Advanced Placement Exams (for High School Students)

Advanced Placement (AP) gives high school students an opportunity to take college-level courses in various subject areas. A score of 3 is the minimum for credit awarded. Grades of 3, 4 or 5 qualify students for credits and/or placement into advanced courses at Saint Paul College. There is no limit to the number of credits a student may earn through the AP exams. However, credits earned through Advanced Placement will not satisfy the residency requirement for graduation at Saint Paul College. Credit can be given for a specific college course if a test covers substantially similar material. If the test material does not match an existing course, students will be given elective credits.

CLEP—College Level Examination Program

Saint Paul College will consider CLEP exam credits for students who want to test out of general education courses and selected business courses. There is no limit to the number of credits a student may earn through the CLEP exam. However, credits earned through CLEP examinations will not satisfy the residency requirement for graduation at Saint Paul College. A student must provide the College with an official report of CLEP examination scores in order to obtain credit. Equivalent courses and required scores can be found on the College Web site at <u>www.saintpaul.edu</u>.

Note: Colleges establish their own policies for accepting CLEP credit. Students should consult their transfer college's CLEP policy to determine whether CLEP credits will transfer and/or how they will be accepted. Consult the College Board Web site <u>www.collegeboard.org</u> for testing locations, fees and exam information.

Credit for Life Work/Work Experience (Prior Learning)

Prior Learning (Competency-Based Education) allows students to present nontraditional learning as competencies to be evaluated for credit by qualified faculty members towards their educational program. These competencies must be the equivalent of what would have been achieved through college coursework. At Saint Paul College, Credit for Prior Learning offers, on a limited basis, students with sufficient work, noncollege credit and/or life learning experiences, the opportunity to document competencies and theory learning relevant to specific courses offered at the College. Credits earned from prior learning must be applicable to the student's program of study. The Credit for Prior Learning option may be available for a limited number of courses. Students interested in pursuing the option of earning credit for prior learning must discuss this option with the assigned Faculty Advisor and the Prior Learning Coordinator.

IB—International Baccalaureate (for High School Students)

The International Baccalaureate (IB) program is an internationally recognized program through which high school students complete a comprehensive curriculum of rigorous study and demonstrate performance on IB examinations. Students may present a full IB diploma or a certificate recognizing specific higher level or standard level test scores. Credit may be awarded for scores of 4 or higher on individual IB examinations or successful completion of the IB diploma. Credit can be given for a specific college course if an exam covers substantially similar material. There is no limit to the number of credits a student may earn through the International Baccalaureate (IB) program. However, credits earned through International Baccalaureate (IB) will not satisfy the residency requirement for graduation at Saint Paul College.

International Transcripts

Saint Paul College does not evaluate international transcripts. Students who have completed courses in another country must have their transcripts evaluated by a third-party evaluation service. Colleges and universities differ in how they accept these courses. For more information contact the Transfer Center.

Military Education and Experience

Saint Paul College is an SOC (Servicemembers Opportunity College) and will consider academic credit for military education and experience gained while on active duty. The American Council on Education's Guide to the Evaluation of Educational Experience in the Armed Forces will be used to evaluate military education and experience. A copy of the student's Report of Transfer or Discharge (Form DD-214) and an official SMART or AARTS transcript are required for evaluation.

For more information on military transcripts, go to the American Council of Education Web site at <u>www.acenet.edu</u> and select "Military Students and Veterans" found under "Higher Education Topics."

A maximum of 16 semester technical credits will be accepted as elective credits in transfer from military transcripts. General education credits satisfying the Minnesota Transfer Curriculum (MnTC) will be accepted beyond the 16 semester credit maximum. Students may petition for an evaluation of military credits believed to be equivalent to a specific program.

DANTES—Defense Activity for Non-Traditional Education Support

The DANTES program supports the voluntary educational program for active military personnel and members of the National Guard and Reserves. The DANTES Subject Standardized Tests (DSSTs), however, are now available for use by civilians at universities and colleges throughout the country. The DSSTs are a series of examinations in various college and technical subjects. The DSST program allows students the opportunity to demonstrate college-level learning acquired outside the classroom. All tests carry ACE (American Council on Education) credit recommendations. Saint Paul College will honor the ACE recommendation and accept courses applicable to a program or course of study.

SOC—Servicemembers Opportunity Colleges

Recognizing the problems faced by military students whose jobs require frequent moves, SOC member schools make it easier to obtain college degrees by the following:

- Limiting the amount of coursework students must take at a single college to no more than 25% of degree requirements;
- Designing transfer practices to minimize loss of credit and avoid duplication of course work;
- Awarding credit for military experience; and
- Awarding credit for tests such as CLEP, RCEP and DSST national testing programs.

Colleges and universities that participate in the network degree programs for the Army, Navy and Marine Corps agree to:

- Guarantee to accept each other's courses in transfer within curriculum areas such as management, computer studies, interdisciplinary studies and others.
- Award credit for military service schools and occupational experience.

Background Studies Policy

Designated Health and Child Development Careers program students are affected by the following:

Minnesota Statutes require that the Department of Human Services (DHS) conduct background studies on individuals providing direct contact services to people receiving services from facilities and agencies licensed by DHS and the Minnesota Department of Health (MDH). Direct contact is defined as providing face-to-face care, training, supervision, counseling, consultation, or medication assistance to people receiving services from the agency or facility.

An individual who is disqualified from having direct contact with persons served by the program as a result of the background study and whose disqualification is not set aside, will not be permitted to participate in a clinical placement in facilities with programs subject to licensure under Minnesota statutes. This is to protect the health, safety and rights of persons served by those programs. Failure to participate in a clinical placement required by the academic program could result in ineligibility to qualify for a degree in this program. The Department of Human Services (DHS) determines disqualification and the Department of Human Services will inform an individual of this report.

Students are reminded of the background study requirement upon admission to the program, during the first introductory course in the program and when a work setting is identified for a clinical placement. Background studies must be submitted annually.

Registration

Registration

The Saint Paul College Course Schedule is available online and contains a complete listing of classes that are available each term. The course schedule is available approximately ten weeks before the beginning of the term. The Course Schedule lists the courses, number of credits, class times, instructors' names, room numbers and prerequisites. Please note this information is subject to change without notice.

Returning students in a declared major have registration priority. When planning for future courses you are encouraged to work with an Academic Success Coordinator, Transfer Specialist or your program faculty. If you need help in making career decisions you should make an appointment with the Director of the Career and Placement Center in Room 1250. Classes have limited enrollment. Closed classes are posted on the online course schedule.

Registration for classes takes place each semester and summer term. Information on how and when to register is sent to new students when they are accepted for admission. Information is also posted on the College Web site. Not all courses listed in the College Catalog are offered every term.

A Registration Schedule is published on the College Web site for each term and indicates assigned dates and times for registration. New students who have applied and been accepted may register for classes during orientation sessions or check the Program Requirements Guide online and register online for courses prior to attending an orientation session. Students do not need to wait for orientation sessions to register.

Students with an unpaid balance at Saint Paul College or any other Minnesota State College or University will be unable to register for courses until all unpaid balances have been paid.

Returning students should register after consulting with their Program Requirements Guides and Degree Audit Reports (DARS) during the previous semester prior to enrolling and go through the following procedures:

Registration Process for New Students

- 1. Follow Admission and Intake Assessment process.
- Attend an Orientation session or utilize the College's online orientation at <u>www.saintpaul.edu/Orientation</u>. Students may complete step three prior to attending orientation.
- 3. Register online. If you have a disability that precludes you from registering online, submit the completed Add/Drop Registration Form to the Office of Enrollment Services.
- 4. Pay tuition online or print your fee statement and present it with payment at the Tuition Office before the posted due date. You will receive a paid fee statement upon receipt of payment. Refer to Tuition & Fees for details for payment options.
- 5. Purchase books and supplies.
- 6. Attend all courses for which you've registered.

Registration Process for Current and Returning Students

- 1. Review Program Requirements Guide and Degree Audit Report (DARS). Select courses.
- 2. Login into your account to register online; or if assistance is needed, you may go to the Office of Enrollment Services for online registration assistance.
- 3. Pay tuition online or print your fee statement and present it with payment at the Tuition Office before the posted due date. You will receive a paid fee statement upon receipt of payment. Refer to Tuition & Fees for details for payment options.
- 4. Purchase books and supplies.
- 5. Attend all courses for which you've registered.

Purchase your books prior to the start of class, either at the Bookstore or online at <u>www.saintpaulcollegebookstore.com</u>. This will help you avoid the long lines at the Bookstore on the first day of the term.

Course Add, Drop or Withdraw

Students bear primary responsibility for their Course Registrations. Students are responsible for canceling their registration by the due dates posted in the course schedule or to pay any balance due. To cancel registration, a student must log-in to their eServices account and drop their classes prior to the end of the designated drop/add period.

Non-attendance is not a cancellation and students will be held responsible to pay any amount owed.

All students, including those receiving financial aid, will be assessed tuition and fees for the term based on the number of credits for which they are registered on the 6th day of the term.

Students may add courses at any time during the published "add" period for each term. Students who drop a course through the 5th day of a term, may receive a tuition refund (pro-rated for summer term).

Students may withdraw from classes to receive a "W" grade from the 6th day of the term through the posted date of withdrawal for the term. For courses that do not run the entire term, withdrawal is permitted before 80% of the class session is over. Students must withdraw from courses online. No refund is permitted after the 5th day. Courses from which a student officially withdraws will be assigned the letter grade "W" (withdraw). Students who fail to withdraw from a course but stop attending before the end of the semester are subject to being assigned a grade of FW. Refer to the current Course Schedule for details.

Students who cannot attend class during the first week of classes (or do not plan to log on for the first day of an online class) need to make arrangements for all absences in advance with their instructor. Students who miss class the first week without making prior arrangements with their instructor are subject to being assigned a grade of FN (Failure for Nonattendance). Students must drop courses they do not intend to attend before the end of the add/drop period.

Satisfactory Academic Progress Guidelines

Students bear primary responsibility for their own academic progress and for seeking assistance when experiencing academic difficulty. Students are encouraged to keep a file of their grades and transcripts.

Saint Paul College has a Satisfactory Academic Progress policy which requires degree seeking students, upon registering for 6 or more credits, to maintain a cumulative grade point average of at least 2.0 and/or a completion rate of at least 67% of the cumulative credits attempted with earned grades of A, B, C, D, F, FN, FW, W, I, or P. If these requirements are not met, students will be placed on academic warning.

Students seeking admission to Saint Paul College who have attended another college or university and do not meet Saint Paul College's Satisfactory Academic Progress Standards must appeal for admission.

First term students earning grades of all F's, FN's and/or FW's may be suspended for at least two major terms (Fall and Spring) following the unsuccessful term.

Academic Warning

Students placed on academic warning will have a registration hold placed on their academic record which will prevent them from registering in future terms.

Students must work with the Office of Academic Success to develop an academic plan and to have the hold released.

Students placed on academic warning for a deficient GPA are required to enroll in CSCR course(s). Students, who do not register for, withdraw from, or do not successfully complete CSCR course(s) as assigned by an Academic Success Coordinator may be suspended indefinitely.

While on academic warning a student is required to achieve a term grade point average of 2.5 or higher and maintain a term completion rate of 100%. The student will remain on warning until a cumulative grade point average of 2.0 or higher and a cumulative completion rate of 67% or higher is achieved.

Academic Suspension

Students who fail to meet satisfactory academic progress standards during their warning period by not earning a term GPA of at least a 2.5 and a term completion rate of 100% will be suspended for at least two major terms (fall and spring). All students placed on suspension must appeal to be reinstated.

Appealing Academic Suspension

Appealing due to catastrophic extenuating circumstances. Students who believe they failed to achieve satisfactory academic progress due to catastrophic extenuating circumstances may file an appeal to their suspension prior to taking the required two major terms off. However, students must be able to provide documentation supporting their claim of catastrophic extenuating circumstances interfering with their ability to be successful in school.

Appealing for reinstatement after serving the required two terms. Students who have served their suspension period must appeal for reinstatement by submitting the Academic Suspension Appeal packet which includes writing a letter stating the changes that have occurred that will allow them to be successful in school.

The Suspension Appeal packet can be obtained in the Office of Enrollment Services or via the Saint Paul College Web site.

Readmission after a Suspension Period. Students whose Suspension Appeals are approved must develop an academic plan with an Academic Success Coordinator. They must enroll only for the classes approved on their academic reinstatement course plan, which may include CSCR course(s). Changes to the schedule must be approved by the Associate Dean of Student Development and Services. Students who do not register for, withdraw from or do not successfully complete, CSCR course(s) may be suspended indefinitely.

Students with approved petitions will placed on academic probation. However, if the student fails to meet satisfactory academic progress standards during the term the petition is granted, they may be suspended indefinitely.

Academic Forgiveness Policy

The Academic Forgiveness policy is available only to students whose coursework was taken at Saint Paul College (formerly St. Paul Technical College). The policy is a onetime opportunity. The student cannot have been enrolled at Saint Paul College for a minimum of two calendar years (24 months) and the student must have a cumulative GPA of less than 2.0. The coursework forgiven will remain on the student's transcript; however, the credits and the grades will not be carried forward into the student's cumulative grade point average. The student will be permitted to pick and choose courses within the semester to be forgiven. Only D's, F's, FN's, FW's and W's can be forgiven. If more than one term is forgiven, they must be consecutive terms. A maximum of two terms may be forgiven. In order to meet eligibility requirements for Academic Forgiveness, the student must have completed a minimum of 12 credits in residence at Saint Paul College with at least a 2.0 GPA after returning from the minimum 2-year absence. The student must apply for Academic Forgiveness within one calendar year after completing the 12 semester credits with at least a 2.0 GPA. Work completed at another institution cannot be used to satisfy this requirement.

Student Records

Saint Paul College Student Records Office is the official recorder of the students' academic records.

Student Transcripts

Requests for Saint Paul College transcripts and other related records, must be processed through the Student Records Office. All financial obligations to Saint Paul College must be met before transcripts can be released.

An official transcript is issued, for a fee, upon written request or through online submission and is sent to a third party, such as another institution or employer, within three business days. The transcript will serve as the official record of student effort while enrolled at the College. There is an additional fee for next day service, if requested.

Tuition and Fees

Tuition Rates

The Board of Trustees for Minnesota State Colleges and Universities establishes tuition rates annually. Tuition rates are established on a per-credit basis for all credit course offerings and are subject to change. The Course Schedule lists tuition and fee rates for the term.

Student Fees

All students registered for credit courses are assessed a Student Senate fee. The per-credit fee is assessed for students beginning with the first credit. The fee is also assessed during the summer term. The Minnesota State College Student Association also assesses a per-credit fee each term.

Technology Fee

A technology fee is charged as allowed by the Minnesota State Colleges and Universities. The technology fee is used to pay for instructional equipment and materials such as computers and software, audio-visual equipment, library technology and support staff.

All fees are subject to change.

Tuition Payment

Tuition and fees are due by the posted date or the student may be dropped from their classes. Payments can be made online or at the Tuition Office. To retain classes, the Tuition Office must either have full payment, or active *Nelnet Payment Plan*, received a Financial Aid Award ISIR, a certified student loan, a scholarship or a completed third party authorization on file for the current term. Refer to the Saint Paul College Tuition Office Web page for— Tuition & Fees Payment Options for more information. Any tuition and fee balance not covered by or created as a result of the loss or change to financial aid or other deferments is the student's responsibility to pay.

Students who are qualified senior citizens (over 62) may be able to attend classes at a reduced tuition rate. Refer to the current *Course Schedule* for details. Registration is allowed at this rate beginning with the second class session on a space-available basis.

Non-Payment of Tuition

Students who have not fulfilled one of the seven Payment Options by the tuition due date may have their registration removed. Please refer to the Tuition page on the Saint Paul College website for the 7 options. You are responsible to cancel your registration by the posted due dates in the course schedule, or to pay any balance due. Non-attendance or nonpayment is not a cancellation and you will be held responsible to pay any amount owed.

Payment of Textbooks and Course Materials

Students with sufficient financial aid will be allowed to charge bookstore purchases through the financial aid book charging process. Students with an existing payment plan will be allowed to add the cost of required textbooks and course materials to the plan. In both cases the student is ultimately responsible for the payment of textbooks and course materials.

Refer to the current Course Schedule for further details.

Refunds for Total Withdrawal from College

Students who withdraw or drop from all courses must give formal notification to the College by withdrawing or dropping online from all classes to be eligible for a tuition refund according to the schedule below. Failure to attend class does not constitute withdrawal.

Withdrawal Period—

Fall & Spring Terms	Refund
Prior to the 1st day of the term	. 100%
1st through 5th class day of the term	. 100%
6th through 10th class day of the term	75%
11th through 15th class day of the term	50%
16th through 20th class day of the term	25%
After the 20th class day of the term	0%

Withdrawal Period—

Summer/Other Terms	Refund
(At least 3 weeks but less than 10 weeks in len	gth)
Prior to the 1st day of the term	. 100%
1st through 5th class day of the term	. 100%
6th through 10th class day of the term	50%
After the 10th class day of the term	0%

Refunds for Change of Credit Load

Schedule changes (ADD/DROP) will be handled through the Office of Enrollment Services through the 5th day of the term. No tuition refund will be made, nor will fees be reduced by dropping part of the credits, after the 5th day of the term.

Refunds for Summer Session Classes

The above refund schedules are pro-rated for summer session. Consult the Office of Enrollment Services for details on summer refunds.

Saint Paul College Card

A Saint Paul College Card will be issued to all Saint Paul College students, through a partnership between Minnesota State Colleges and Universities, Saint Paul College, and Higher One, a financial services company serving colleges and universities across the country.

This is NOT a credit card. This service will give you faster access to your financial aid funds, tuition refunds, and/or student payroll, depending on your refund selection. After you have registered for a class at Saint Paul College, you will receive a Saint Paul College Card in the mail. Do not throw the card away. You will need it to select a financial aid or student payroll disbursement option. More information can be found on our Web site at www.saintpaul.edu/CardDisbursementOptions.

Refund Time Frame

Credit card payments will be refunded to the same credit card that was used when the tuition was paid. A minimum of one week is required to process credit card refunds. Refunds for payments made by cash and check will be processed thru HigherOne based on the disbursement option selected by the student. A minimum of 2 weeks is required for refunds made by cash or check.

Waivers

Saint Paul College may waive amounts due to the College for the following reasons: employee benefits provided by bargaining agreement, death of a student, medical reasons, college error, employment related condition, significant personal circumstances, student leader stipends, course conditions, natural disasters, ward of state or other situations beyond the control of the College. The College cannot waive the MSCSA student association fee. Contact the Office of Enrollment Services to request a Tuition Waiver Form if you feel you are entitled to a waiver.

Financial Aid

General Information

Financial aid is money available to help students finance the cost of their education. Financial aid comes in the form of grants (money that the student does not have to pay back), loans (money that the student must pay back) and college work-study (money the student earns through employment). Eligibility is determined from the results of the Free Application for Federal Student Aid (FAFSA).

The student and his or her family have the primary responsibility to pay for the student's education. Financial aid is intended to supplement the difference between the cost of education and the expected family contribution. Several programs are available to help students meet their educational expenses. The Financial Aid Office will calculate financial aid eligibility after receiving FAFSA results and all required documents.

The student must declare a major and be admitted to a program at Saint Paul College that leads toward a degree, diploma, or eligible certificate to be qualified to receive financial aid. For additional information, contact the Financial Aid Office at 651.846.1386.

Financial Aid Definitions

- FAFSA—The FAFSA is the Free Application for Federal Student Aid. This is the online form that allows the student to apply for all types of financial aid: grants, loans, or college work-study.
- Cost of Education—The cost of education includes tuition, fees, and an allowance for room and board, books, supplies, transportation and personal expenses.
- Expected Family Contribution—An amount, determined by a formula called Federal Methodology, that indicates how much of the student and his or her family's resources should be available to help pay for school. The Expected Family Contribution (EFC) is used in determining the student's eligibility for federal and state financial aid. If a student has unusual expenses that may affect his or her ability to pay for school, the student should notify the Financial Aid Director.
- Financial Need—Financial need is the difference between the cost of education and the expected family contribution calculated by the federal processing center.
- Full-Time Enrollment: 12 credits or more per semester.
- Three-Quarter-Time Enrollment: 9–11 credits per semester.
- Half-Time Enrollment: 6-8 credits per semester.
- Less Than Half-Time Enrollment: 5 credits or fewer per semester.

Types of Financial Aid

The following types of financial aid are available at Saint Paul College: grants, work-study programs and loans.

Grants

Grants are gift aid, which the student does not have to pay back. Students who have completed a bachelor's degree, or the equivalent from another college, are not eligible for grants.

Federal Pell Grant

Students may apply for the Federal Pell Grant by completing the FAFSA. Pell Grants vary from \$555 per year up to the federally legislated maximum for a fulltime student. Parttime awards are prorated based upon enrollment. Pell Grant recipients must be enrolled in an eligible program.

Federal Supplemental Education Opportunity Grant (SEOG)

This program is designed for students who have exceptional financial need. Funds are limited and eligibility is determined by the Financial Aid Office.

Minnesota State Grant

This is a grant for Minnesota residents. Awards are similar to the Pell Grant. Students apply by completing the FAFSA. Minnesota State Grant eligibility requires the FAFSA be received within the first 30 days after the term begins.

Minnesota Postsecondary Child Care Grant

This grant is for students who are Minnesota residents, have children 12 and under (14 and under, if handicapped), have financial need and have child care expenses. Recipients must not be receiving Minnesota Family Investment Program (MFIP) assistance. Students who have received an award letter may request an application from the Financial Aid Office.

Work-Study Programs

The following programs employ students on campus:

- Federal Work-Study
- State Work-Study

Pay is established by the College. These programs provide work for up to 20 hours per week. Total work-study earnings cannot exceed the cost of attendance. Students must be registered for at least 6 credits to qualify for work-study.

Loans

Loans are financial aid that must be paid back. Need based and non-need based loans are available.

Federal Direct Subsidized and Unsubsidized Loans

Whether or not students qualify for a grant, they can get help to meet their educational expenses by borrowing money through the Federal Student Loan Program. Depending upon eligibility, dependent first year students may borrow up to \$5,500 per academic year and second year students, up to \$6,500. Independent first year students may borrow up to \$9,500 per academic year and second year students, \$10,500. The student must complete online Entrance Loan Counseling, a Master Promissory Note, and be registered for 6 credits per semester.

Federal Plus Loan Program (PLUS)

The PLUS Loan Program for undergraduate students can be used by parents of dependent students who are in need of additional funds to meet the cost of education. The program allows parents to borrow up to the cost of attendance, minus other aid.

Private Educational Loans

Private educational loans, also known as alternative loans, may bridge the gap between government programs and the cost of attendance. Eligibility is typically based on your credit score. You can only apply for these loans by contacting banks or other lenders.

Other Sources of Financial Assistance

Several government and private agencies provide financial assistance to eligible students. Contact the local office of the following agencies for consideration.

- Division of Rehabilitation Services (DRS/DVR) www.deed.state.mn.us/rehab
- Minnesota Indian Scholarship Program <u>www.ohe.state.mn.us</u>
- Veteran Benefits (VA) <u>www.vba.va.gov</u>
- Minnesota Department of Veterans Affairs www.MyMilitaryEducation.org
- Minnesota Educational Assistance for War Orphans
 <u>www.ohe.state.mn.us</u>
- Minnesota Migrant Council (MMC)
- Services for the Blind (SSB) www.mnssb.org

Other Public and Private Scholarships—check with a high school counselor, the public library and the following Web sites:

- <u>www.fastweb.com</u>
- <u>www.finaid.org</u>
- www.going2college.org
- <u>www.fastaid.com</u>
- <u>www.college-scholarships.com</u>

How to Apply for Financial Aid

- 1. Apply for admission to Saint Paul College. Students must declare a major and be enrolled in a program leading to a degree, diploma or eligible certificate to qualify for financial aid. Awards vary based on enrollment level (full-time or part-time). Financial aid will be based on the number of enrolled credits at the end of the drop/add deadline.
- 2. *Fill out the Free Application for Federal Student Aid* (*FAFSA*). You must apply electronically through the U.S. Department of Education's Web site at <u>www.fafsa.gov</u>. Enter the Saint Paul College school code, 005533, so the Financial Aid Office will receive an electronic copy of the results. An Institutional Student Information Record (ISIR) should arrive in 2 weeks.
- 3. *Official* academic transcripts from any non-MNSCU institutions should be sent to the Student Records Office for credit evaluation. This is a requirement for Minnesota State Grant eligibility.
- 4. After the Financial Aid Office receives the electronic ISIR from Student Federal Aid, the student's application will be reviewed for accuracy and completeness. Any requests for additional information should be responded to immediately. When the file is complete, financial aid eligibility will be calculated and an e-mail will be sent indicating that the award letter is accessible at the College's Web site through the student's eServices account.

- **General Information**
- 5. Carefully read the award letter for information regarding financial aid eligibility. The award letter explains procedures for receiving financial aid and/or applying for other financial assistance, such as student loans, the child care grant and work study employment. For more information, call 651.846.1386 or visit the Financial Aid Office.

Financial Aid Policies and Procedures

Financial Aid Verification

Saint Paul College verifies data information of students selected by the Central Processing System (CPS) or selected by Saint Paul College. Students selected for verification will be notified by email to view there student status letter which contains a request for required documentation.

Students should submit all required documentation within 30 days of the date on the student status letter. The financial aid process will not continue until the required documentation is received. Not submitting the requested documentation within 30 days, without explanation, may result in loss of eligibility for the current academic year.

After all required documentation has been received, students should allow a minimum of 14 business days for the verification process to be completed. If the FAFSA data is correct, the Financial Aid process will continue toward a complete and accurate file, at which time the student's financial aid will be packaged resulting in an award letter that can be viewed online at <u>www.saintpaul.edu</u> under the student's account. Any FAFSA discrepancies found as a result of the verification process will be corrected by the Financial Aid Office and electronically submitted to the central processor.

Any cases of suspected fraud, misreported information, or altered documentation to fraudulently obtain federal funds will be discussed with Saint Paul College administration and referred to the Office of Inspector General of the Department of Education via Minnesota State Colleges and Universities.

Withdrawals

If you withdraw from Saint Paul College by the drop/add deadline, you will not receive financial aid funds because there will be no class registration. If you have an excessive number of withdrawn classes for any reason after the drop/add deadline, you can be placed on financial aid warning the following academic term. After completing the next semester with the appropriate grade point average (GPA) and credit hour progression, you will be removed from probation. If you fail to maintain a satisfactory GPA and credit progression, you will be suspended from financial aid.

Withdrawals and Effect on Financial Aid

Students who receive financial aid and withdraw from all classes are subject to a federal Return of Title IV Funds policy. The policy states that if you withdraw before completing 60% of the semester, a proportional amount of financial aid either received, or that was applied to your student account, must be refunded to the federal government.

Example: If a student receiving a Pell Grant of \$2000 drops out after 50% of the semester, 50% of the Pell received, approximately \$1000, must be returned to the federal government by the student and/or institution (minus 50%)

of the student's calculated share for Pell and SEOG). Any institutional refund calculated within the first four weeks of school will be applied to the student's account to reduce the student's share of the Return of Title IV Funds. Funds returned to the federal government are used to reduce the federal program amount for which funds were disbursed. Funds are returned in the following order:

Unsubsidized Federal Direct Loan

Subsidized Federal Direct Loan

Federal PLUS Loan

Federal Pell Grant

Federal SEOG Grant

Other assistance under Title IV for which a Return of Funds is required.

After the institution's share of any required refund to Title IV programs has been refunded, a proportional share of any remaining refunds must be returned to the State of Minnesota.

Program Transfers

If you transfer from one program to another, you will be considered for continued financial aid eligibility. However, all grades and coursework will be assessed in determining satisfactory academic progress. Program changes might cause reduced subsidized loan eligibility.

Consortium Agreements/Enrollment at Other Schools

If you are taking classes required for your program at Saint Paul College at another college, you must complete a consortium agreement if you would like those courses included in financial aid eligibility. Consortium Agreement forms may be obtained at the Financial Aid Office. The Transfer Center must sign off on all requests. If a consortium agreement is not submitted, financial aid will not reflect courses taken at the other institution.

Tuition and Fee Deferments

Tuition and fees will be deferred provided the following have been met by the posted tuition deadline for the term.

1. The student has a payment arrangement with the Saint Paul College Tuition Office to hold classes.

OR

2. An electronic Institutional Students Information Record (ISIR) is received resulting from submission of a FAFSA.

Any tuition/fee balance not covered by Financial Aid is the student's payment responsibility.

Satisfactory Academic Progress Standards for Financial Aid Recipients

Federal regulations require that a college develop a standard of satisfactory academic progress. This satisfactory academic progress standard must have both a qualitative standard (grade point average) and a quantitative standard (course completion). If the student fails to meet either of these two standards, they will first be given a warning term. If the student fails to meet either of the satisfactory academic progress standards during the warning term, they will be suspended from financial aid. Students who have been suspended from financial aid due to these standards will be reinstated for financial aid after they have met the satisfactory academic standards or by successfully appealing the loss of aid. Appeal procedures for the loss of financial aid may be obtained from the Financial Aid Office, or online at <u>www.saintpaul.edu/FinancialAid</u>.

Students bear primary responsibility for their own academic progress and for seeking assistance when experiencing academic difficulty.

Qualitative Standard

Students are required to maintain a minimum 2.0 cumulative GPA for all coursework including withdrawals, incompletes and non-credit courses. Transfer credits do not affect the student's GPA.

Quantitative Standard

Students are required to complete a minimum of 67% of the cumulative credits attempted based on their enrollment status. All credits attempted will be calculated into the completion percentage. This includes courses that are designated with a withdrawal, incomplete, non-credit courses and courses that have been repeated. Transfer credits do not effect cumulative completion rate.

Maximum Time Frame

All students are expected to complete their program within an acceptable period of time. Financial aid recipients meeting Satisfactory Academic Progress requirements may receive aid until they complete their program or until they have attempted 150% of the required coursework in their current program/declared major. All credits attempted at Saint Paul College count toward the maximum time frame. This includes withdrawals, incompletes, non-credit courses, and courses that have been repeated. Credits taken under a previous major and transfer credits will count toward maximum timeframe provided they fulfill requirements of the current program/ declared major.

Implementation

Academic progress is evaluated at the end of each semester or term. A student who fails to meet cumulative progress requirements will be placed on financial aid probation or suspension. Academic progress will be monitored as follows:

1. Satisfactory Academic Progress monitoring begins with the first credit. Upon six (6) credits of enrollment, all students with registered credits during a term will be evaluated at the end of the term.

- 2. Any student who fails to meet cumulative GPA and completion rate satisfactory academic progress requirements for one term will be placed on probation for the subsequent term and will be notified by mail. Financial aid may be received during a probation status. First term students earning grades of all F's, FN's and/or FW's may be suspended for at least two major terms (Fall and Spring) following the unsuccessful term.
- 3. A student on warning who fails to meet the term standards identified in #2 will be suspended from financial aid and notified by e-mail.
- 4. Upon evaluation, if Saint Paul College determines that it is not possible for a student to meet the minimum cumulative standards at the completion of a degree/diploma or certificate for their declared major, the student will be suspended from financial aid and will be notified by mail.
- 5. A student who has exceeded the maximum time frame will be placed on suspension from financial aid and notified by e-mail.

Suspension for Extraordinary Circumstances

Saint Paul College may immediately suspend a student in certain circumstances, such as:

- 1. A student who was previously suspended and whose academic performance falls below acceptable levels during a subsequent term;
- 2. A student who demonstrates an attendance pattern that abuses the receipt of financial aid;
- 3. A student who is on financial aid suspension at another school.

Financial Aid Appeals Procedure

A student who fails to make satisfactory academic progress and is suspended from financial aid has the right to appeal based on unusual or extenuating circumstances which may include, but shall not be limited to, death in the family, injury or illness.

Appeal Process

Appeals must be submitted in writing to the Financial Aid Office. The appeal form is available in the Financial Aid Office or on the college website. The appeal must include a thorough explanation of the circumstances that affected academic progress. If applicable, the appeal must include supporting documentation beyond the written explanation. Appeals must be submitted to the Financial Aid Office to be evaluated for an approval or denial. A written decision on the appeal will be provided to the student.

If the appeal is approved, the student will be put on probation and may receive financial aid for the next term. Provided a 2.5 GPA and a 100% completion rate is achieved for the succeeding term, the student will remain on probation. If these requirements are not met for the term, or the student does not meet the cumulative progress standards, the student will go to a suspension status for the next term of enrollment for financial aid eligibility. Denied appeals may be resubmitted for consideration by an Appeal Committee which will result in a final determination.

Reinstatement

Students who are placed on suspension for financial aid but are allowed to register after staying out for one term will be reinstated for financial aid after achieving a cumulative 2.0 GPA and 67% completion rate or after receiving an approved appeal.

Treatment of Grades

Please see the Academic Standards section.

Academic Amnesty/Forgiveness

Students who are on Financial Aid Suspension who request Academic Forgiveness for previous enrollment due to an extenuating circumstance must follow the appeal process.

Audited and Test Out Courses

Courses taken by Audit or Test Out are not eligible for Financial Aid.

Consortium Credits

Credits for which financial aid is disbursed under a consortium agreement will be recorded as consortium agreement credits and will be included in the calculation of Satisfactory Academic Progress for financial aid.

College Readiness and ESOL Courses

College Readiness and ESOL courses will be included in the cumulative GPA and completion rate. ESOL courses and up to 30 credits of College Readiness coursework will be excluded from the 150% maximum time frame calculation.

Repeated Courses

Courses may be repeated for financial aid eligibility if program requirements require a higher grade or if the student has failed or withdrawn from the course. Financial aid will pay for one repeat if the student has previously repeated the course successfully.

The cumulative GPA will use the highest grade achieved. Courses repeated a third time require registration permission from the Academic Dean. The cumulative completion rate includes all repeated courses.

Veterans' Benefits are not payable for repeating courses which, based upon school standards, have previously been successfully completed. Courses which have not been successfully completed include those for which a grade of "F" or the equivalent was assigned and those for which a grade below the required minimum was assigned when academic regulations to the course or program require at least "C."

Transfer Credits

Credits taken at previous schools accepted for current program requirements will be included in the 150% maximum time frame.

Withdrawals

All coursework designated with a withdrawal is calculated in the cumulative completion rate and maximum time frame.

Education Tax Credits

Three tax credits exist that students may be eligible to claim: the Hope Scholarship Tax Credit, the American Opportunity Tax Credit (AOTC) and the Life-Long Learning Tax Credit. The Hope Scholarship Tax Credit is a credit and not a scholarship. If you do not pay federal income tax, these credits will not apply to you. The credits apply to students enrolled at least half-time for at least one term during the calendar year. The credits apply only to citizens or permanent residents of the United States. The credits apply only to tuition and academic fees paid for by the taxpayer (not by grant or third party sponsor). If your grant or other payment will pay for books or other living costs and you pay for tuition and academic fees yourself, you may claim a credit; however, you must report the grant or other payment as income.

Many details surround tax credits. Saint Paul College does not provide income tax counseling. We recommend that you consult with a tax professional to see if you qualify.

Student Services

Office of Enrollment Services

Enrollment Services provides prospective and current students with up-to-date information on program options and program requirement guides that help steer students through the application and registration processes. This office also processes requests for those students who want to change their major program, as well as applications for admission to the various selective programs offered at the College. Students may also use the computers in Enrollment Services to print copies of their term schedules and their bills. For assistance, call 651.846.1555.

Transfer Center

The Transfer Center staff works with students transferring to Saint Paul College as well as those planning to transfer on to a 4-year college or university, including students enrolled in the College's Associate in Arts degree. The Transfer Center also serves as a resource center for students investigating transfer opportunities, articulation agreements, and other college and university application and admission requirements. Transfer guide sheets are located in the Transfer Center. The Center is located in Room 1365. Advising is available for students interested in transferring to a Bachelor degree program. The Transfer Center also hosts a variety of visits to Saint Paul College by admissions representatives from many regional colleges and universities. For transfer assistance call 651.846.1739 or visit our Web site at www.saintpaul.edu/transfer.

Program Advising

Program faculty advisors assist students with program planning and course selection. They provide detailed information about programs, employment opportunities and transfer options. Students are strongly encouraged to consult with their faculty advisor prior to registering each term. Contact information can be found on the Program Requirement Guides.

Academic Success Coordinators

Academic Success Coordinators provide academic advising to help students create and achieve their academic goals at Saint Paul College. They can work one-on-one with students to make a customized success plan to fit individual needs. Students who seek help with registration, need assistance with time management, or have concerns about being a successful college student are encouraged to meet with an Academic Success Coordinator.

The Academic Success Coordinators monitor Satisfactory Academic Progress and work with students who may be at risk of not achieving Satisfactory Academic Progress. Students on Academic Warning are required to work with the Office of Academic Success to develop an Academic Success Plan.

Students should plan on meeting with an Academic Success Coordinator before making major academic decisions, like withdrawing from a course or changing majors, and when needing academic guidance. Academic Success Coordinators can also help students to discover how to overcome barriers to success by completing an Academic Performance Assessment. Appointments can be made by calling 651.846.1357 or by emailing academicsuccess@saintpaul.edu.

Counseling

A personal counselor is available to assist students with short-term counseling related to educational, social, personal, developmental and life/career planning goals. The on-staff counselor also provides crisis intervention services, career counseling, mediation, referrals to community agencies, and consultations when needed. The Counseling Center is located in Room 1339 and the counselor is available on an appointment or emergency walk-in basis. For assistance, call 651.846.1383.

Support Services for ESOL Students

In addition to general services at the College, English for Speakers of Other Languages (ESOL) students have access to services that meet their specialized needs. An ESOL assessment for students whose native language is not English is available to assist in appropriate course placement. The College also offers a wide range of courses to assist ESOL students in building English skills in reading, writing, speaking and listening. These courses may be available prior to or during enrollment in the major program. ESOL students also have access to the Language Lab where they can receive additional assistance from ESOL faculty in building their English skills.

For more information on services available to ESOL students, please contact the Office of Enrollment Services at 651.846.1555.

Veterans Resources

Saint Paul College is approved for the instruction of veterans and dependents of war veterans who have training needs and who are entitled to participate in federal financial assistance programs. Visit the VA Web site for more information on eligibility at <u>www.gibill.va.gov</u>. A college representative is available to assist veterans with submitting enrollment certifications for veterans' benefits after you have registered for classes. For more information, please contact the Registrar Katie Yep at 651.846.1372. Room 3340 has been designated as the Saint Paul College Veterans Center. The Veterans Center is for use by student, faculty and staff who are veterans or enrolled dependents of veterans. The Center contains computers, a sitting area for visiting/studying and veteran resources. The Veteran Center is staffed during hours of operation. Hours are posted on the Veterans Center entrance and can be found on the monitors around campus.

Disability Services

Saint Paul College is committed to providing equal access to educational opportunities for all students, including those with disabilities. The Director of Disability Services, Caidin Riley, provides direct assistance such as information, referral, advocacy, support, and academic accommodations for students. Accommodations are made on an individualized and flexible basis. Students with disabilities are responsible for seeking assistance and providing acceptable documentation of their disability prior to receiving accommodations.

The Director assists in the transition of students with disabilities to Saint Paul College programs. The Director of Disability Services is responsible for identification, referral, advocacy, accommodation and inter-agency coordination. The Director of Disability Services, Caidin Riley, is located in Enrollment Services, in Room 1302, and can be reached at 651.846.1547.

Reasonable Accommodation

Disability Services fosters programmatic and environmental access to students with disabilities so that they can achieve their educational goals. The Office also serves as a resource on disability issues to the College and the community.

Procedures for Obtaining Services

All students who wish to receive assistance through Disability Services must meet with the Director and provide acceptable documentation of their disability prior to receiving services. Available services will be explained and those deemed appropriate will be provided upon the student's request.

Eligibility and Documentation

Any person who has a documented disability, permanent or temporary, who is a student or prospective student at Saint Paul College, and who is qualified for educational programs, is eligible for services.

Saint Paul College requires students with disabilities to submit documentation of their disability prior to receiving academic accommodations. The College requires that documentation:

- Clearly states the specific diagnosed disability or disabilities
- Describes the tests performed in making the diagnosis
- Describes the functional limitations resulting from the disability or disabilities
- Be current (less than 3 years old)
- Describes the specific accommodation(s) requested
- Adequately supports each of the requested accommodations

• Be typed or printed on official letterhead, signed by an evaluator qualified to make the diagnosis, and include information about the evaluator's license or certification and area of specialization

Any documentation that fails to meet any of these criteria may not be sufficient to receive accommodations. Individualized Education Programs (IEPs) are not sufficient documentation to receive accommodations at the higher education level. Students whose documentation is insufficient are invited to resubmit additional documentation at any time. Saint Paul College is not responsible for providing accommodations to students who have not submitted adequate documentation. Documents provided to the College will not be returned.

Rights of Students with Disabilities

All students at Saint Paul College have the right to be treated with dignity and respect by all staff and employees at the College. Students with disabilities have the right to:

- Have information regarding their disability and services they receive kept confidential and disclosed only on a need-to-know basis
- High quality services and assistance in accordance with Saint Paul College policies and procedures
- Evaluate the services they receive and bring to the attention of the Director of Disability Services, Caidin Riley, any concerns or problems related to the delivery of services
- Appeal any denied requests for services. All denials will be documented and kept on file by the Office of Disability Services

Students with disabilities should begin working with the Office of Disability Services soon as possible to allow time to put accommodations in place.

Available Services/Accommodations

Saint Paul College offers the following services to students to remove environmental and programmatic barriers related to a disability:

- Advocacy
- Support and counseling
- Information and referrals
- Early registration

Physical Access Accommodations

- Assistive listening devices
- Academic accommodations
- Sign language interpreters
- Assistive computer software
- Notetakers
- Test proctoring/accommodations such as extra time, alternate location, alternate format tests
- Alternate format course work and textbooks
- Written materials made available on tape or in other alternative formats
- Adaptive equipment

- Recorders and scribes
- Transition services
- Assistance with course selection and program advising
- Other services as deemed appropriate by staff

Sign Language Interpreters and Notetakers for Deaf Students

Sign Language Interpreters assist deaf and hard-of-hearing students with classroom communication, as well as communication with students, faculty and staff. Many College events are interpreted/transliterated for deaf students/staff. Notetakers are often necessary during class lectures so deaf and hard-of-hearing students can concentrate fully on the interpreter. Some deaf and hard-of- hearing individuals do not know or use American Sign Language. They may depend entirely on lip reading to communicate. Oral interpreters and notetakers may provide necessary communication when instructors are not facing them. FM aids are available for those hard-of- hearing individuals who wish to use assistive listening devices/equipment during lectures or group discussions.

Contact Disability Services

Any questions should be directed to Caidin Riley, Director of Disability Services, 651.846.1547. For TTY Communication, contact the Minnesota Relay Service at 7-1-1 or 1.800.627.3529. The Office of Disability Services (Room 1302) is located in the Office of Enrollment Services Room 1300. If a student is having difficulty with any requested accommodation, please contact the Office of Disability Services in a timely manner for assistance.

Section 504 of the Rehabilitation Act of 1973 and Americans with Disabilities Act of 1990

Persons with disabilities have the right to equal opportunity for education as prescribed by law. Disability Services is responsible for creating a barrier-free environment while empowering students to grow towards independence and self-assertion.

Career Resources and Classes

Saint Paul College offers a variety of career resources to assist individuals in deciding on a career that matches their interests, skills and goals.

Career Counseling

Assistance with career exploration and career decision- making is available through the Career and Placement Center. One-toone assistance is available by appointment. Call the Career and Placement Center (Room 1250) at 651.846.1384 to schedule an appointment.

Career Classes

College Success Strategies and Career Resources (CSCR 1405) and Choosing Your Career Path (CSCR 1403) are credit career and college success courses. These courses are for students who want to gain knowledge of career resources and the career planning process. These courses also provide career assessments, career resource information and planning strategies that will assist in developing an individualized career plan.

Career Workshops

Career workshops provide individuals with a jumpstart on their career planning and decision-making process by offering career assessment and career resource information in a shorter format than the career classes. Workshops are offered to small groups throughout the year.

Computerized Career Resources

Students can explore interests and career options by using a computerized career planning tool, the Minnesota Career Information System (MCIS). MCIS has up-to-date information on careers that match student interests. For each step of the career planning process MCIS will help with answers to questions related to career, education and job outlook. MCIS will assist a student to decide on a career, find an educational program, select a transfer college and locate financial aid. MCIS is available online through the College. For access information, call 651.846.1317. ISEEK is another Internetbased career information system that can assist in career planning. For more information on ISEEK, visit the Web site at <u>www.iseek.org</u>.

Job Placement

The Career and Placement Center provides assistance to students and Saint Paul College graduates in their search for part-time and full-time employment. This assistance is a lifelong service to students and graduates.

Graduate follow-up is conducted each year. Program placement statistics remain consistently high and are available for each program at Saint Paul College.

The Career and Placement Center conducts an annual follow-up of Saint Paul College graduates to determine the job status of the most recent program graduates. For more information about the Career and Placement Center, call 651.846.1384, email career.center@saintpaul.edu or visit Room 1250.

Assistance includes:

- Listings of part-time and full-time job openings from employers who contact the College
- Access to free online Career and Placement System designed specifically for Saint Paul College Students and Alumni
- Interest assessments and inventories to assist students in finding the program that is right for them
- Cover letter and resume writing assistance

Additional Services

Child Care

The College contracts with the YWCA of Minneapolis to provide an early learning center on campus. The Early Learning Center has separate areas providing appropriate care to three age groups: Infants, Toddlers, and Preschoolers.

Interested students may enroll their children for hours that accommodate their college class schedule. Student parents are encouraged to visit their children during class breaks. For information on Center costs and available financial aid, call 651.846.1581. The Center is open year-round. Operating hours are Monday through Friday from 7:00am - 4:30pm, except College holidays.

College Cafeteria and Coffee Shop

The College Cafeteria is known as the City View Café and is open Fall and Spring Semesters from 7:00am to 7:00pm Monday through Thursday, and 7:00am to 2:00pm on Fridays. Summer Term the hours are 7:00am – 2:30pm Monday through Thursday, and 7:00am to 1:30pm on Fridays.

Breakfast: 7:00am - 10:00am

Lunch: 10:45am - 1:00pm

Dinner: 4:00pm – 6:00pm (no dinner served summer semester)

Snacks and Beverages are served throughout the day.

The Café is closed during Holiday and Semester breaks and when school is not in session.

City View Catering is a full service caterer for meetings, weddings and other special events. Contact the Catering office at 651.846.1593 for further information.

Student Lounges and Study Space

The Learning Commons on the first floor is available for study. The adjoining Lounge and City View Café is available for dining and meeting with friends. The Study Commons is located in 3310 and there is additional study space located in the third floor link. The fourth floor skyway also provides space for students to relax and study.

Parking Registration and Fees

All Saint Paul College students who park on the College campus are required to pay for parking. Saint Paul College has a parking access system that allows students, faculty, staff and visitors to enter the parking lot by using a programmed parking access card that can be picked up at the tuition office by obtaining a short-term parking access ticket at the entrance that can be paid for when exiting the parking lot. The parking lot is not a public parking facility. There is no daily public parking available to the general public unless it involves business on the campus. Anyone operating or parking a vehicle on campus is responsible for being familiar with and complying with all traffic and parking regulations. The purchase of a parking access card does not guarantee space availability. The vehicle operator is responsible for finding a legal parking space. Please refer to the last page of this catalog or the Student Handbook for complete information on the College's Parking Policy.

Campus Public Safety

Evening escort services are available for students. The Campus Public Safety phone number is 651.846.1322. Security staff normally patrol the campus between the hours of 7:00am and 10:30pm. The Campus Security and Crime Report is published annually. Copies of this report are available from the Information Center. Refer to the Student Handbook for complete information on Campus Public Safety and the Campus Security and Crime Report.

Bus Transportation

Students who live in the Saint Paul-Minneapolis metro area can access the College using Metropolitan Transit Commission (MTC) bus service. MTC bus passes are available for purchase at the Bookstore. Free MTC bus schedules are also available in the Bookstore. For additional information, call the MTC Information Center at 612.373.3333 or www.metrotransit.org.

Health Services

Saint Paul College provides first-aid kits in most classrooms and the Department of Public Safety is available to assist at any time with a portable first-aid supply kit. Please follow the procedures below regarding your health: Take an active role in your own wellness and health. Wear appropriate medical alert tags (e.g., diabetic or seizure IDs) to assist emergency personnel in assessing an illness or injury more quickly. Notify a staff member immediately if you have a question about a medical condition or injury. If you are unable to find a staff member, call Public Safety at 651.846.1322.

Health Insurance

All students are strongly encouraged to have health Insurance. Students are responsible for the costs of personal health care, including injuries at the College or Clinical site. Students who do not have medical coverage may purchase an insurance plan for students. This insurance plan is made available through the Minnesota State Colleges and Universities state insurance plan. This insurance coverage is available to all students, with an option for dependent coverage. Students may purchase the plan for a term or for the year. Brochures are available at the Office of Enrollment Services, Room 1300.

Students enrolled in the following programs must have health insurance as required by the clinical facility agreement: Practical Nursing, Respiratory Therapist, Medical Laboratory Technician, and Health Unit Coordinator. Students may show proof of coverage or purchase the student insurance plan noted above.

Housing

Saint Paul College does not provide residence hall facilities for its students. Students can obtain information about available housing from area newspapers and other community publications. The College assumes no responsibility for housing information or housing referrals that appear in those publications.

Lockers

Lockers are available for rent for student's use on a first come first serve basis. The non-refundable Locker fee is paid at the Tuition Office. All lockers must be cleaned out at the end of the spring semester. Items left in lockers will be disposed of after spring semester each year.

Lost and Found

Lost and found items may be turned in to the front desk. Due to the volume of items found, unclaimed items will be discarded or donated to charity the first business day of each month. Lost or stolen items are not the responsibility of Saint Paul College. To inquire about a lost article, stop by the front desk.

Student Identification Cards

To obtain Saint Paul College identification (ID) card, student must be registered for courses and provide an official state or Federal issued photo identification. This College ID card is valid during your enrollment or five years. There is a \$10 replacement cost for lost, stolen, or damaged card.

Saint Paul College Student ID must have a full face image. A full face image is one where the face is not covered. A head covering is acceptable so long as it does not cover the student's face.

The Photo ID office is located inside the Technology Center (Room 1470) and hours for each semester are posted at <u>www.saintpaul.edu/PhotoID</u>. For more information, please contact the IT department at 651.846.1440.

Student E-mail Accounts

All students have and are required to activate and maintain a College e-mail account through the Student Portal System. E-mail is the official communication mode for the College.

Student Life

The Office of Student Life offers a variety of social, wellness, educational, cultural events and programs to enhance the student experience. In conjunction with a student's classroom learning, these extracurricular activities serve to meet the diverse needs and interests of the student body. In addition, Student Life also encourages community and leadership involvement through participation in student associations and organizations, campus events, activities and Student Senate.

Student Organizations

Student Organizations at Saint Paul College are associations with a state, regional or national affiliation, have 40 or more enrolled student members and who have actively existed on campus for at least three consecutive years. Student Senate, SkillsUSA and Phi Theta Kappa (PTK) are the three Student Organizations currently recognized by Saint Paul College.

Student Senate/Student Government

The Student Senate is the official representative of the student body at Saint Paul College.

The purpose of the Student Senate is to work to improve the quality of student life and education at Saint Paul College. As a liaison to the administration and faculty, senate represents student ideas, concerns and issues at Saint Paul College. Through its participation with the Minnesota State College Student Association (MSCSA), the Student Senate also has a voice in issues and concerns at the state level. Participation in the organization is an excellent opportunity to engage in the political process, become acquainted with the College system and its resources, while developing leadership skills. Opportunities for involvement include attending regularly scheduled General Assembly meetings or Senate/Student Life sponsored activities, joining a committee, or running for office. Student Senate is also responsible for the recognition and funding of Student Associations and Organization. At this time we have academic, religious, humanitarian, arts related, and environmental groups active on campus. Each semester a student involvement fair is held to provide students with

the opportunity to learn about and join the various Student Associations and Organizations offered at Saint Paul College.

Students have the opportunity to start a new club and are encouraged to do so by stopping into the Student Life/Student Senate Office in Room 1170.

Student groups that would like official recognition and involvement support from Student Life, but do not meet the criteria required to be a recognized Student Association, can start an Interest Group. These groups have access to funding, meeting space, and marketing support from Student Life and represent variety of student interests and disciplines.

SkillsUSA

This organization is established for students to provide quality education experiences in leadership, teamwork, citizenship and character development. Students participate in a variety of social, community service and educational opportunities. Saint Paul College students have been represented at local, state, and national competition. Students compete in a wide range of areas that cover almost every discipline and program at Saint Paul College.

Phi Theta Kappa (PTK)

Phi Theta Kappa (PTK) is the international honor society of the two year college. There are requirements for eligibility including (but limited to) being enrolled in a regionally accredited institution offering an associate degree program; completing at least 12 credits of coursework that may be applied to an associate degree; and obtaining a cumulative grade point average of 3.5. Eligible members will receive an invitation to join PTK via their Saint Paul College e-mail account from PTK and the Saint Paul College President.

Academic Resource Centers

Tutoring Services

All current students have access to free, walk-in peer Tutoring and study space in several on-campus learning centers. The Academic Support Center provides students with tutoring for over 30 subjects along with general assistance with study skills, time management, and understanding assignments. The Writing Center provides writing tutoring for all subjects as well as writing resources including computers, study tables, and reference materials. The Math Center provides student with math and chemistry tutoring as well as math study resources, computers, and study tables. Please visit <u>www.saintpaul.edu/tutoring</u> for available days and hours for specific subjects.

Learning Commons

The Learning Commons provides essential educational support to the local campus community as well as to the larger library and information communities, by providing access to local, global and diverse information resources. The Learning Commons facilitates appropriate use of new and expanding technologies, as well as print resources, which are responsive to current academic and technical coursework.

The Library was recently renovated into the Learning Commons in the Summer of 2013. Expanded electronic services, study rooms, study areas, and tablets for checkout are included. The Learning Commons is located on the main floor of the Saint Paul College Campus, in the East Wing across from the Financial Aid office.

A collection of more than 30,000 books, periodicals and videos and films includes subject areas such as liberal arts and sciences, business, computer careers, health, services, technical and trade. Over 60 databases and over 1,500 e-books are also available on the Learning Commons webpage. Departmental centers house approximately 5,000 additional books and resources.

The Learning Commons offers computer access to internet and productivity applications such as Microsoft Office. The Learning Commons is integrated into the MnPALS consortium, providing access to over 100 other MnPALS libraries, including all Minnesota State Colleges & Universities campuses, some private colleges and all state agencies, as well as many public library systems. Patron-initiated interlibrary loan delivery is available from MnPALS, as well as certain University of Minnesota holdings. The Learning Commons is also part of the MnLINK library system, providing statewide library and database access.

Learning Commons staff are committed to fulfilling the Library mission through ongoing service and education. Learning Commons staff encourage full access to library information resources and services. Lifelong learning, critical thinking skills and ongoing information literacy are emphasized. Educational guidance is provided for both print and multimedia information resources. Ongoing individual and classroom instruction is provided upon request. The Learning Commons is also committed to be an informational resource and educational support to faculty and staff.

Learning Commons Hours

The Learning Commons hours are 7:15am to 8:00pm Monday through Thursday, 7:15am to 4:00pm Friday and 8:00am to 12:00pm on Saturdays. Hours are subject to change. A copy machine is available for student use. The Student ID Card also serves as the library card, which allows for full access to MNPALS, including interlibrary loan and direct borrowing. For further information call: 651.846.1489 or visit www.saintpaul.edu/library.

Instructional Technology Center (ITC)

The Instructional Technology Center (ITC) provides computer labs to students at several locations on campus. Computer labs provide students with access to technology- enhanced learning in math and reading basic skills, software used in courses and the latest in business, multimedia and internet programming technologies. Computer labs are located on the third floor in Room 3225. Students must abide by the Computer Usage Policy while utilizing any computers on campus. Refer to the Student Handbook for a copy of the policy. Computer labs are available six days a week (while classes are in session)— Monday through Thursday, 7:30am to 10:00pm, Friday 7:30am to 4:00pm and Saturday 7:30am to 2:00pm.

Distance Learning

Saint Paul College is committed to providing learning opportunities to students that are free of place or time restrictions. By utilizing the latest technology, the College delivers courses at places and times that are convenient to the student. Technology and its application allow expanded access to educational opportunities that may not be otherwise possible. The current course management system is Desire2Learn (D2L), and the College offers a variety of orientation opportunities to help students get started online. Additional information may be found online at <u>www.saintpaul.edu</u>.

Bookstore (Textbook) Information

Textbooks and a wide range of school and personal supplies can be purchased from the Bookstore. It is located on the first floor near the main entrance. Please check the College Web site, campus postings, or call 651.846.1422 for the Bookstore hours.

Textbook Costs:

To estimate textbook expenses in advance, go to <u>www.saintpaulcollegebookstore.com</u>, the Saint Paul College Bookstore Web site. The student's course schedule will have the information needed to find out more about required textbooks online. Term, Subject (same as Department for the Web site), Course Number and Section Number are needed for textbook inquiry. The listed costs are current estimates. The same process can be used for most required kits and supply items.

Textbook Reservations:

Students may reserve their textbooks online at the following Web site: <u>www.saintpaulcollegebookstore.com</u>. Students who reserve books online can pick them up at the bookstore and pay by credit card, cash, personal check or book voucher (during the voucher period). Students must printout their reservation confirmation to bring along when picking up the books.

Textbook Refunds and Buy-Back Policy:

Full refunds for most textbooks are given within five business days of purchase or within 5 days after the start of the semester, whichever is later. New textbooks must be completely unmarked, free from creases, and in MINT, brand new saleable condition. Textbook purchases with supplements and discs must be returned complete and unopened. Wrapped textbooks must be returned in the original cellophane. An original sales receipt is necessary to return or exchange textbooks. Your fee statement may also be required. Saint Paul College Course Packets are not returnable. Because of the length of NAST classes and other short length classes, students may return these course materials within 3 days from the date of purchase. All kits including but not limited to (Cosmetology, Esthetics, Nursing, & Electronics), Flash Drives, Calculators, MTC Bus Cards, and WebAssign student access codes are not returnable. Textbooks returned prior to the fifth day that are not in new condition will be refunded at current used book pricing. After the fifth day, students will be encouraged to sell their books at the Textbook Buy-Back. In an effort to keep textbook costs down, the Bookstore attempts to stock used books whenever possible. In addition, the Bookstore schedules a Textbook Buy-Back at the end of each semester, where students may resell their textbooks for cash. See the Web site for additional refund information. www.saintpaulcollegebookstore.com

Rights and Responsibilities

Academic Integrity Policy

Saint Paul College fosters the highest standards of academic integrity and the highest regard for truth and honesty. The attempt by students to present as their own any work not actually performed by them; collusion, fabrication and cheating on examinations, papers and other course-related work; stealing, duplicating or selling examinations; substituting for others in class discussions or examinations; producing other students' papers or projects; knowingly furnishing false or misleading academic information on official College records are considered violations of academic integrity and destructive to the central mission of the College.

Students who violate academic integrity shall, after due process, be subject to College sanctions that may include failure on assignments and examinations, failure in courses and suspension or expulsion. Established academic integrity policies, procedures and sanctions are communicated in classes and publications, such as the online Student Handbook.

Directory Information/Data Privacy

Saint Paul College, in compliance with the Federal Educational Rights and Privacy Act (FERPA) and the Minnesota Government Data Practices Act (MGDPA), affords students certain rights with respect to their education records. Students can inspect and view their records within 45 days of the date the Registrar receives a written request for access. Students may ask the College to amend a record by writing to the Registrar and clearly identifying what part of the record is inaccurate. Records will not be released to a third party without permission from the student except to those officials or agencies with specific legal authorization. The following information has been designated as directory information and, as such, is available to the general public: student name; major program of study; dates of attendance; degrees, diplomas, certificates and awards received; full-time or part-time status; and participation in recognized activities. To prevent release of this information outside the College, the student should contact the Student Records Office to sign the Non-Disclosure Form. E-mail addresses are viewed by Saint Paul College as valid addresses for the institutional purpose of distributing student related information, updates, important dates, payment reminders, enrollment dates, etc.

NOTICE: If you are currently enrolled in, or receiving services from, one college or university within the Minnesota State Colleges and Universities system, your academic records from that institution are available to officials of other schools within the system while you are in attendance. If you seek or intend to enroll at another institution within the system, your academic records from other institutions are also accessible to officials at the school where you are seeking or intend to enroll. Disclosures of your records to other schools under other circumstances may require your prior written consent.

You have the right to request a copy of records that have been disclosed. You also have the right to request a hearing to correct any inaccurate, incomplete, or misleading information in those disclosed records. For further information about your rights, please contact the Registrar at the college or university that supplied the records.

Code of Student Conduct

Saint Paul College, as a part of Minnesota State College and Universities, operates under the Board of Trustees and recognizes that your rights as a student must be respected.

You are expected to be familiar with the Code of Student Conduct. Your rights and responsibilities as a student and the expectations of the College are described in the Code of Student Conduct. Refer to the online Student Handbook for a copy of the Code of Student Conduct.

You are responsible for conducting yourself in a manner that does not interfere with the educational process. Behavior that is threatening to the safety or welfare of yourself or others, or that is harassing or discriminatory in nature, will be reviewed promptly by the College and appropriate action will be taken. The Code of Student Conduct does not replace or reduce the requirements of civil or criminal laws.

The College has established a Code of Student Conduct that details procedures for the administration of Student Conduct proceedings. You shall be afforded appropriate due process in the adjudication of any charge(s) of violations of the Code of Student Conduct. Students found guilty of violations may be subject to sanctions, including suspension or expulsion.

Allegation of discrimination or harassment shall be adjudicated under separate procedures in accordance with Saint Paul College policies on those issues.

Complaints and Grievances

Saint Paul College has a Student Complaint and Grievance procedure. Both procedures are outlined in the Student Handbook, which is available online at <u>www.saintpaul.edu</u>. If students feel that any of their rights have been violated, they should follow the process as outlined in the Student Handbook.

Discrimination and Harassment Policy

Saint Paul College is committed to providing students with an educational environment free from discrimination and harassment.

No person shall be discriminated against in the terms and conditions of employment, personnel practices, or access to, and participation in, programs, services and activities with regard to: race, sex, color, creed, religion, age, national origin, disability, marital status, status with regard to public assistance, sexual orientation, membership or activity in a local commission as defined by law, or inclusion in any other group or class against which discrimination is prohibited.

It shall be a violation of this policy for any student, instructor, administrator or other College personnel to harass a student, instructor, administrator or other College personnel through conduct or communication of a sexual nature, or regarding religion and race, as defined by this policy. (For purposes of this policy, College personnel includes College employees, agents, volunteers, contractors or persons subject to the supervision and control of the College.)

It shall be a violation of this policy for any student, instructor, administrator or other personnel of the College to inflict, threaten to inflict, or attempt to inflict racial, disability, or sexual violence upon any student, faculty member, administrator or other College personnel. The College will act to investigate all complaints, formal or informal, verbal or written, regarding violation of this policy.

Refer to the Student Handbook for additional information on the Discrimination and Harassment Policy.

Drug and Alcohol Policy

Saint Paul College has a policy regarding alcohol and other drug use, including unlawful drug use or abuse in the workplace, in accordance with the Drug Free Workplace Act of 1988 (Public Law 100-690, Title V, Subtitle D) and Drug Free Schools and Communities Act Amendments of 1989 (Public Law 101-226). A copy of the Drug and Alcohol Free Campus information is available in the online Student Handbook.

The College forbids the unlawful possession, use or distribution of alcohol and drugs on the College premises, or in conjunction with any College-sponsored activity or event. The College will impose sanctions on students who violate this policy. This prohibition of possession or consumption of alcoholic beverages on campus applies regardless of age.

Smoking and Tobacco Policy

Smoking and the use of tobacco products are only permitted in designated areas on the College campus.

College Communication via E-mail

E-mail is the official means of communication at Saint Paul College. All students enrolled at the College must initiate their Saint Paul College e-mail address and check their College e-mail on a regular basis. Students are responsible for reading and responding, when called for, to all announcements, requests and other College communications sent via Saint Paul College e-mail. New students will have the opportunity to initiate their College e-mail following orientation and prior to registration.

Academic Standards

Grade Point Average and Achievement

A college-level cumulative grade point average of 2.0 (C) is required to graduate with a degree, diploma, certificate or completion of the Minnesota Transfer Curriculum.

Grade Point Average Computation

For each grade students earn in a course, they will be assigned honor points.

Grade	Honor Points
A	4
В	3
С	2
D	1
F	0
1	0
FN = Failure for Non Attendance	0
FW = Failure due to Unofficial Withd	raw 0
P = Pass	0
AU = Audit	0
W = Withdraw	0

The student's GPA is obtained from these honor points by calculating the total number of points (honor points per credit times the credits for each course) and dividing that total by the total course credits. An example follows:

Course	Credit	Grade	Honor Pts
BIOL 1740	4	В	12
PSYC 1710	4	А	16
BTEC 1410	3	F	0
BTEC 1418	3	С	6
BTEC 1435	3	Р	0
Total:	17		34
GPA = 34 / 17	7 = 2.0		

Grade Report

End-of-term grade reports are available online approximately 10 days after the term ends at <u>www.saintpaul.edu</u>.

Dean's List

Once a student is admitted to their selected program and has completed 12 credits with a cumulative grade point average of 3.5 or higher and a 100% completion rate they will be placed on the Dean's list and sent a letter of recognition from the Dean of their program. A notation will be made on the student's transcript to indicate this achievement.

Honors Program

The Saint Paul College Honors Program offers enhanced learning opportunities and activities to students who demonstrate academic excellence and a high level of interest and initiative. The College offers a selection of honors sections from a variety of academic disciplines each year. Honors sections provide students with increased opportunities for intellectual challenge and growth and opportunities to work with other highly motivated students in small classroom settings.

To be eligible to enroll in honors sections, students must show a demonstrated pattern of academic excellence through one of the following:

- completion of at least 12 college-level credits with a Grade Point Average of 3.5 or higher
- entering students with a high school Grade Point Average of 3.75 or higher and a minimum Accuplacer Reading score of 78

Honors sections will be designated on students' college transcripts (i.e. "PHIL 1720 01 Ethics – Honors"). Students who successfully complete 12 or more credits of honors coursework will also be designated as "Honors Scholars" on their college transcripts.

College Readiness Program High Achievement Recognition

Students who are in the College Readiness Program and have completed 9 credits with a cumulative grade point average of 3.5 or higher and a 100% completion rate will receive a letter of recognition for their achievements from the Dean of Student Development and Services. A notation will be made on the student's transcript to indicate this achievement.

Satisfactory Academic Progress Standards

It is the responsibility of the student to maintain a cumulative grade point average (GPA) of 2.0 and a course completion rate of at least 67% of attempted credits. Once a student has accumulated 6 or more credits, if the student's cumulative GPA and/or completion rate falls below the minimum, the student may be placed on academic probation, or in some cases suspended. If the cumulative GPA and/or completion rate falls below minimum standards for a second term, the student may be suspended from the College. A 2.0 GPA in program required courses is a requisite for graduation.

Exception: A letter grade of "D" is considered to be a failure in the following programs: Practical Nursing, Medical Laboratory Technician, Respiratory Therapist and Sign Language Interpreter/Transliterator AAS (language and interpreting skill classes), all technical courses in Massage Therapy, Personal Trainer and all ESOL classes.

Incomplete Grades

Illness or other unforeseen emergencies that prevent students from completing course requirements within the allotted time should be communicated to the instructor as soon as possible. The student may be granted an extension after filling out an Incomplete Grade Request Form which must be signed by both the instructor and the student.

If a student has received an extension period to complete work of a course, they will be temporarily assigned the grade of incomplete "I". If the student does not complete the course requirements within the extension period, the incomplete status will be turned into a grade of "F". Fall Semester is considered the next term for incomplete grades approved for Spring Semester or Summer Term for students who have not completed their program of study. The extension period starts at the end of the current semester and may not exceed eight weeks. For students who are completing their program of study in the Spring Semester, incomplete grades must be submitted by June 1st. If a student receives financial aid, extension periods are limited to eight weeks. A grade must be assigned within that time so that the student's grade point average can be calculated to determine future eligibility for aid.

Course Audits

Students may audit a course on a space-available basis. To audit a course, students must register for the class and pay the required tuition. Obtain the Request for Audit Status Form from the Office of Enrollment Services and request for instructor approval during the first class session. Form must be returned to the Office of Enrollment Services before the end of add/drop period for the term. Courses taken on audit status do not count toward requirements for degrees, diplomas, or certificates. In addition, audited courses do not qualify for financial aid or for veterans' benefits.

Repeated Courses

You may repeat a course for the purpose of achieving a higher grade or to review course material. Credits will be counted only once as "earned credits." Transfer credits will be removed for any repeated course at Saint Paul College. If both the original and the repeated grade are taken at Saint Paul College, both will appear on the student's transcript and only one grade will count towards the GPA. The highest grade will be used to compute the grade point average (GPA). If you request to repeat a course a third time, permission from the appropriate academic dean is required by submitting the Request for Third Attempt form available from the Office of Enrollment Services. If permission is not acquired prior to registering, you may be deregistered from the class you are repeating with a grade of "W" if it is after the drop date.

Credit by Exam and independent studies are not acceptable means of earning credits for a failed course.

Veterans' benefits are not payable for repeating courses which, based upon school standards, have previously been successfully completed. Courses which have not been successfully completed include those for which a grade ("F" or the equivalent) was assigned and those for which a grade below the required minimum was assigned ("D" assigned when academic regulations pertaining to the course or program require at least "C").

Exception: A letter grade of "D" is considered to be a failure in the following major programs: Practical Nursing, Medical Laboratory Technician, Respiratory Therapist, ESOL, Sign Language Interpreter/Transliterator AAS (language and interpreting) and technical courses in Massage Therapy and Personal Trainer.

Maximum Credit Load

To register for 22 or more credits in a semester, or more than 9 credits in summer session, a student must obtain authorization from the Director of Enrollment Services. Guidelines for exceeding the limit are as follows: the student has compiled at least a 2.75 GPA at the College and has accumulated 20 credits; a student transfers in with a 3.0 GPA and an accumulation of 20 credits; there are other documented circumstances that justify the exception.

Credit by Examination/Test-Outs for Technical Credit

Registered students who are able to demonstrate achievement in the content of a college-level course may be eligible to receive credit toward a degree. The College offers Credit by Examination for students in technical (non-general education) programs for a course provided that no CLEP exam exists. For testing out of general education courses and selected business courses, students may take the CLEP exam (see CLEP Policy).

Credit by Exam is determined on a case-by-case basis in selected areas and is at the instructor's discretion. The nonrefundable fee for Credit by Exam is one-half of that course's tuition charge. A maximum of 12 credits may be earned at the College through Credit by Exam. Credits earned by examination do not count toward the Saint Paul College residency requirements. Credit is given only for courses included in Saint Paul College curriculum.

Note: Successful Credit by Exam will apply to the Saint Paul College program in which the student is enrolled. Other colleges have their own policies for Credit by Exam and may not accept Saint Paul College Credit by Exam in transfer.

If a student passes the exam, an entry will be made on the transcript with CBE (Credit by Exam) listed with the course title. Students may test only once for each course. No credit by examination will be granted when a student has earned a grade in a more advanced course in the discipline.

Credits received through Credit by Exam are not eligible for financial aid or veterans' benefits.

Applicants for Credit by Exam must contact the Office of Enrollment Services to start the process. Credit by Exam must be completed prior to the 5th day of a course in which a student is currently enrolled. Students awarded Credit by Exam are responsible for dropping the corresponding course within the drop/add period.

Conversion

The conversion of quarter hours to semester hours is 0.67 for each quarter hour.

Graduation

To be eligible to graduate from Saint Paul College, students must:

- earn the total required credits and courses listed within the program plan; with a GPA of 2.0 or higher
- complete the Request for Graduation Award online at <u>www.saintpaul.edu/GraduationApplication</u> or at the Office of Enrollment Services; and
- fulfill all financial obligations to the College.

A graduation ceremony is held in May for students completing their programs during the academic year.

Degrees/diplomas/certificates are conferred by the President to the graduates of Saint Paul College—A Community & Technical College under the authority of the Minnesota State Colleges and Universities Board of Trustees.

Degree Residency

A student shall earn a minimum of 20 credits for all associate degrees at Saint Paul College. The residency requirement shall be reduced to 12 college-level credits for students transferring with at least 12 college-level credits from another Minnesota State Colleges and Universities institution or the University of Minnesota. One third of the credits required for a diploma, certificate, or the Minnesota Transfer Curriculum (MnTC) must be earned at the College.

Time Limits for Graduation Requirements

Students entering Saint Paul College will have five years in which to complete their work, under the terms of the catalog in effect at the time of their first enrollment. Students taking more than five years to complete their graduation requirements may follow any catalog in effect during the five-year period preceding their date of graduation. Students must have been in attendance during the catalog year selected.

Students must declare which catalog year requirements they will follow on the Graduation Application. Students who have a break in their attendance for one year or longer are encouraged to review educational plans upon re-enrolling at the College.

To ensure students graduate with up-to-date skills, technical credits are valid for five years or have a five year "lifespan." This includes transfer technical credits which are used for specific technical program requirements. Technical courses that are beyond the five-year limit may be accepted, depending upon currency, relevancy and the student's current work experience.

General Information

Appeals for Exceptions to College Policy

Students who have questions or want to request an exception to College policy will be handled through an appeals process.

Students must submit a letter of formal request stating the exact nature of the requested appeal. Letters should include appropriate documentation. Letters should be submitted to the Student Records Office.

Educational Programs

Liberal Arts and Sciences Associate in Arts (AA) Degree

Program Overview

The Associate in Arts (AA) degree is awarded for successful completion of 60 semester credits in liberal arts and sciences and is designed to constitute the first two years of a baccalaureate degree. It is also intended primarily for students who plan to transfer to another college or university to complete a bachelor's degree. No specific major is listed in conjunction with the degree; however, students may choose electives in a particular field of study in preparation for a planned major or professional emphasis at a four year college or university. An AA degree must include the entire Minnesota Transfer Curriculum (MnTC) 40 semester credits which, pursuant of Minnesota statute, must transfer to any institution in the Minnesota State Colleges and University system or to the University of Minnesota. Students are to develop an educational plan with a Saint Paul College Transfer Specialist to verify degree requirements are fulfilled, as requirements may vary depending upon the major and transfer college.

The AA degree can be completed through a variety of course delivery methods including face to face, hybrid and/or online. The STEM and Liberal Arts department offers online classes to satisfy the MnTC requirements. A student may choose to complete the entire AA degree online.

Program Outcomes:

- 1. Knowledge of the important concepts and principles of the natural sciences, mathematics, history, social and behavioral sciences, arts, and humanities
- 2. Skills necessary for life roles, including skills in thinking, communication and methods of inquiry and applications of knowledge
- 3. Critical examination of, and an appreciation for, diverse people, cultures and life roles

General Requirements

- At least 60 earned college-level credits (40 MnTC credits and 20 additional MnTC and/or pre-major elective credits)
- A grade of "C" or better in ENGL 1711
- Cumulative GPA of 2.0
- MnTC GPA of 2.0

• Meet Saint Paul College residency requirement of 20 credits. This requirement shall be reduced to 12 credits for students transferring with at least 12 college-level credits from another Minnesota State Colleges and Universities institution or the University of Minnesota.

Total Credits Required for the AA Degree

Minnesota Transfer Curriculum (MnTC)	40 credits
Additional MnTC and/or pre-major elective courses	20 credits
Total Requirements	60 credits

MnTC Distribution Requirements for the AA Degree

The minimum Minnesota Transfer Curriculum (MnTC) distribution requirements for the AA degree are listed below. (Refer to the MnTC Course List)

Course		Cr
Minnesot	a Transfer Curriculum (MnTC) Goals 1-10	40
Goal 1:	Communication ENGL 1711 Composition 1 (required) 4 cr ENGL 1712 Composition 2 (required) 2 cr SPCH XXXX One eligible course (required)	9 3 cr
Goal 2:	Critical Thinking Fulfilled when all the goal areas are comple (40 credits)	eted
Goal 3:	Natural Sciences Minimum of two courses from two different disciplines, one of which must be a lab cou	
Goal 4:	Mathematical/Logical Reasoning Minimum of one course. Courses must be numbered between 1700-1799 or 2700-270	3 99
Goal 5:	History and the Social and Behavioral Scien Minimum of three courses from two differe disciplines.	
Goal 6:	Humanities and Fine Arts Minimum of three courses from two differe disciplines.	9 nt
Goal 7:	Human Diversity Minimum of one eligible course	3-4
Goal 8:	Global Perspective Minimum of one eligible course	3-4
Goal 9:	Ethic and Civil Responsibility Minimum of one eligible course.	3-4
Goal 10:	People and the Environment Minimum of one eligible course.	3-4

Note: Refer to the MnTC Course List. Some courses may be applied to more than one goal area. If you meet the MnTC goal requirements with fewer than 40 semester credits, select additional MnTC courses to complete the minimum requirement of 40 semester credits.

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Associate in Science (AS) Degree

The Associate in Science (AS) degree is awarded for successful completion of a program of 60 semester credits in a designated field or area which transfers to a baccalaureate major in a related scientific or technical field. The AS degree provides a balance of liberal arts education and career-oriented classes. The AS degree may prepare students for direct employment; however, articulation agreements must exist between the institution awarding the Associate in Science degree and an institution awarding a related baccalaureate degree. An Associate in Science degree shall include a minimum of 30 semester credits in general education as described in the MnTC distribution requirements for the AS degree.

Transfer Note: While the AS degree has more limited transferability than the AA degree, specific transfer articulation agreements exist with designated four-year colleges and universities for each AS degree. Minnesota Transfer Curriculum courses within the AS degree transfer to institutions in the Minnesota State Colleges and Universities system and other colleges. Please see a Transfer Specialist and refer to the Transfer Articulation Agreements Table for specific information.

AS Degree Programs

- Biomedical Engineering Technology
- Business Management
- Chemical Technology
- Child Development Careers
- Child Development Careers ASL
- Computer Graphics and Visualization
- Computer Science
- Health Sciences Broad Field
- Management Information Systems

Pre-Engineering

General Requirements for the AS Degree:

- 60 earned college-level credits (a minimum of 30 credits from MnTC courses)
- Cumulative GPA of 2.0
- Meet Saint Paul College residency requirement of 20 credits. This requirement shall be reduced to 12 credits for students transferring with at least 12 college-level credits from another Minnesota State Colleges and Universities institution or the University of Minnesota. For specific course requirements, see the individual program descriptions, located in Enrollment Services and the Transfer Center, or speak with your Faculty Advisor.

MnTC Distribution Requirements for the AS Degree

The minimum Minnesota Transfer Curriculum (MnTC) distribution requirements for the AS degree are listed below. Credit and course requirements are specific for each program. Refer to the curriculum requirements listed in the Programs of Study for each AS degree program.

Note: Specific course recommendations or requirements for some AS degree programs may apply.

AS Degree General Education Requirements

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

- Goal 1:Communication7ENGL 1711 Composition 1 (required) 4 cr.
SPCH XXXX (required) (Goal 1 only) 3 cr3Goal 3 or Goal 43Goal 3: Natural Sciences
Goal 4: Mathematical/Logical Reasoning3Goal 5: History, Social Sciences and Behavioral Sciences 3
- Goal 6: Humanities and Fine Arts
- Goals 1–10 of the Minnesota Transfer Curriculum 14 Select a minimum of 14 additional credits Students must select courses from at least six (6) Goal Areas of the Minnesota Transfer Curriculum.

Total General Education Requirements 30

Associate in Applied Science (AAS) Degree

The Associate in Applied Science degree (AAS) is awarded for successful completion of a program of 60–72 semester credits and is intended for students who desire immediate employment upon graduation. At Saint Paul College, the AAS program shall include a minimum of 16 semester credits of liberal arts and sciences courses as described in the MnTC distribution requirements for the AAS degree.

Transfer Note: The AAS degree is not intended to transfer to an upper-division college; however, some articulation agreements exist with designated four-year colleges and universities for several of the AAS degree programs. Minnesota Transfer Curriculum (MnTC) courses within the AAS degree transfer to institutions in the Minnesota State Colleges and Universities system and other colleges. Please see a Transfer Specialist for specific information and refer to the Transfer Articulation Agreements Table.

AAS Programs

Accounting Auto Body Repair Automotive Service Technician **Business Administrative Professional Business Information Technology** Child Development Careers Clinical Sports Massage Computer Network Engineering Computer Programming Cosmetology Culinary Arts Entrepreneurship Esthetician (Medical Setting) Esthetician (Spa) Global Trade Specialist Health Information Technology Healthcare Informatics Hospitality Management

Human Resources Marketing Medical Office Professional Medical Laboratory Technician Music Business Personal Trainer Pharmacy Technician Photography Entrepreneurship Respiratory Therapist Sheet Metal Sign Language Interpreter/Transliterator Supply Chain Logistics Visualization Technology Welding Technology

General Requirements for the AAS Degree:

- 60–72 earned college-level credits (a minimum of 16 credits from MnTC courses)
- Cumulative GPA of 2.0 or higher
- Meet Saint Paul College residency requirement of 16 credits. This requirement shall be reduced to 12 credits for students transferring with at least 12 college-level credits from another Minnesota State Colleges and Universities institution or the University of Minnesota. For specific course requirements, see the individual program descriptions, the Office of Enrollment Services staff or your Faculty Advisor.

MnTC Distribution Requirements for the AAS Degree

The minimum Minnesota Transfer Curriculum (MnTC) distribution requirements for the AAS degree are listed below. Credit and course requirements are specific for each program. Refer to the curriculum requirements listed in the Programs of Study section for each AAS degree program.

AAS Deg	gree General Education Requirements	Cr
Refer to the Minnesota Transfer Curriculum Course List for each Goal Area		
Goal 1:	Communication ENGL 1711 Composition 1 (required) – 4 cr. SPCH XXXX (required) (Goal 1 only) – 3 cr	7
Goal 3 o	r Goal 4 Goal 3: Natural Sciences OR Goal 4: Mathematical/Logical Reasoning	3
Goal 5:	History, Social Sciences Behavioral Sciences	3
Goal 6:	Humanities and Fine Arts	3
Total G	eneral Education Requirements	16

Diploma Programs

Diplomas are awarded for successful completion of 30–72 semester college-level credits and are intended for students who desire entry-level employment skills or career advancement. Students in diploma programs are required to complete technical courses as well as general education courses.

Certificate Programs

Certificates are awarded for successful completion of 9–30 semester college-level credits. Certificates are awarded for successful completion of a program intended to provide students with entry-level employment skills or to enhance a student's technical skills.

Developmental Coursework

Developmental coursework has assisted thousands of students in getting started in College programs. The goal of developmental coursework is for students to acquire the necessary knowledge and skills that will help them succeed in programs. Developmental courses are not considered collegelevel credit and will not apply towards any certificate, diploma, or degree completion requirements.

English for Speakers of Other Languages (ESOL)

The purpose of English for Speakers of Other Languages (ESOL) coursework is to assist limited-English speakers from different ethnic and cultural backgrounds to learn English and increase their chances of success at Saint Paul College. These classes are tailored to meet these unique needs.

Internships

Some major program areas require an internship. For other areas, an internship is optional. When students are ready to complete this phase of their training, they should consult with their faculty advisor to coordinate the internship.

While completing the internship, the student remains registered at Saint Paul College. Students are not excused from tuition payment and must continue to meet course requirements for all courses in which they are enrolled.

Saint Paul Joint Apprenticeship

Saint Paul College has worked with the building trades for many years. In cooperation with Advisory and Joint Apprenticeship committees, Saint Paul College works to give trade apprentices the most up-to-date education and training available in the United States.

Most applicants are accepted into an apprenticeship program by either a) working in the occupation, b) being referred by an employer, or c) having completed a pre- apprenticeship training program. To enroll in one of the trade programs, please contact the Office of Enrollment Services for the next available opening date and application. Entrance exams, and in some cases interviews, are required.

To enroll in a program without a program completion requirement, students must contact that apprenticeship coordinator. Students may obtain their name or number by calling the Career and Technical Division, 651.846.1320.

Minnesota Transfer Curriculum

The Saint Paul College mission endorses the centrality of general education in its programming and its commitment to offer breadth, as well as depth, of study in its curriculum. The Minnesota Transfer Curriculum (MnTC) is a coherent requirement of Saint Paul College programs and is clearly identifiable as an integral part of the curriculum. The College is committed to, and strives toward, outcomes that impart common knowledge, intellectual concepts and attitudes every person ought to possess.

Minnesota Transfer Curriculum Goals

The Minnesota State Colleges and Universities system has developed a common general education curriculum called the Minnesota Transfer Curriculum (MnTC). Completion of this defined transfer curriculum at one institution enables a student to receive credit for all lower division general education upon admission to any other Minnesota public institution.

The MnTC is intended to achieve the following ten goals:

1. Written and Oral Communication

To develop writers and speakers who use the English language effectively and who read, write, speak and listen critically. As a base, all students should complete introductory communication requirements early in their collegiate studies. Writing competency is an ongoing process to be reinforced through writing-intensive courses and writing across the curriculum. Speaking and listening skills need reinforcement through multiple opportunities for interpersonal communication, public speaking and discussion.

- a. understand/demonstrate the writing and speaking processes through invention, organization, drafting, revision, editing and presentation.
- b. participate effectively in groups with emphasis on listening, critical and reflective thinking, and responding.
- c. locate, evaluate, and synthesize in a responsible manner material from diverse sources and points of view.
- d. select appropriate communication choices for specific audiences.
- e. construct logical and coherent arguments.
- f. use authority, point-of-view, and individual voice and style in their writing and speaking.
- g. employ syntax and usage appropriate to academic disciplines and the professional world.

2. Critical Thinking

To develop thinkers who are able to unify factual, creative, rational and value-sensitive modes of thought. Critical thinking will be taught and used throughout the general education curriculum in order to develop students' awareness of their own thinking and problem-solving procedures. To integrate new skills into their customary ways of thinking, students must be actively engaged in practicing thinking skills and applying them to open-ended problems.

3. Natural Sciences

To improve students' understanding of natural science principles and of the methods of scientific inquiry, i.e., the ways in which scientists investigate natural science phenomena. As a basis for lifelong learning, students need to know the vocabulary of science and to realize that, while a set of principles has been developed through the work of previous scientists, ongoing scientific inquiry and new knowledge will bring changes in some of the ways scientists view the world. By studying the problems that engage today's scientists, students learn to appreciate the importance of science in their lives and to understand the value of a scientific perspective. Students should be encouraged to study both the biological and physical sciences.

- a. demonstrate understanding of scientific theories.
- b. formulate and test hypotheses by performing laboratory, simulation, or field experiments in at least two of the natural science disciplines. One of these experimental components should develop, in greater depth, students, laboratory experience in the collection of data, its statistical and graphical analysis, and an appreciation of its sources of error and uncertainty.
- c. communicate their experimental findings, analyses, and interpretations both orally and in writing.
- d. evaluate societal issues from a natural science perspective, ask questions about the evidence presented, and make informed judgments about science-related topics and policies.

4. Mathematical/Logical Reasoning

To increase students' knowledge about mathematical and logical modes of thinking. This will enable students to appreciate the breadth of applications of mathematics, evaluate arguments and detect fallacious reasoning. Students will learn to apply mathematics, logic and/or statistics to help them make decisions in their lives and careers. Minnesota's public higher education systems have agreed that developmental mathematics includes the first three years of a high school mathematics sequence, through intermediate algebra.

- a. illustrate historical and contemporary applications of mathematical/logical systems.
- b. clearly express mathematical/logical ideas in writing.
- c. explain what constitutes a valid mathematical/logical argument (proof).
- d. apply higher-order problem-solving and/or modeling strategies.

5. History, Social and Behavioral Sciences

To increase students' knowledge of how historians and social and behavioral scientists discover, describe and explain the behaviors and interactions among individuals, groups, institutions, events and ideas. Such knowledge will better equip students to understand themselves and the roles they play in addressing the issues facing humanity.

a. employ the methods and data that historians and social and behavioral scientists use to investigate the human condition.

- b. examine social institutions and processes across a range of historical periods and cultures.
- c. use and critique alternative explanatory systems or theories.
- d. develop and communicate alternative explanations or solutions for contemporary social issues.

. Humanities and Fine Arts

To expand students' knowledge of the human condition and human cultures, especially in relation to behavior, ideas and values expressed in works of human imagination and thought. Through study in disciplines such as literature, philosophy and the fine arts, students will engage in critical analysis, form aesthetic judgments and develop an appreciation of the arts and humanities as fundamental to the health and survival of any society. Students should have experiences in both the arts and humanities.

- a. demonstrate awareness of the scope and variety of works in the arts and humanities.
- b. understand those works as expressions of individual and human values within an historical and social context.
- c. respond critically to works in the arts and humanities.
- d. engage in the creative process or interpretive performance.
- e. articulate an informed personal reaction to works in the arts and humanities.

7. Human Diversity

To increase students' understanding of individual and group differences (e.g., race, gender, class) and their knowledge of the traditions and values of various groups in the United States. Students should be able to evaluate the United States' historical and contemporary responses to group differences.

- a. understand the development of and the changing meanings of group identities in the United States, history and culture.
- b. demonstrate an awareness of the individual and institutional dynamics of unequal power relations between groups in contemporary society.
- c. analyze their own attitudes, behaviors, concepts and beliefs regarding diversity, racism, and bigotry.
- d. describe and discuss the experience and contributions (political, social, economic, etc.) of the many groups that shape American society and culture, in particular those groups that have suffered discrimination and exclusion.
- e. demonstrate communication skills necessary for living and working effectively in a society with great population diversity.

8. Global Perspective

To increase students' understanding of the growing interdependence of nations and peoples and develop their ability to apply a comparative perspective to cross-cultural social, economic and political experiences.

- a. describe and analyze political, economic, and cultural elements which influence relations of states and societies in their historical and contemporary dimensions.
- b. demonstrate knowledge of cultural, social, religious and linguistic differences.
- c. analyze specific international problems, illustrating the cultural, economic, and political differences that affect their solution.
- d. understand the role of a world citizen and the responsibility world citizens share for their common global future.

9. Ethical and Civic Responsibility

To develop students' capacity to identify, discuss and reflect upon the ethical dimensions of political, social and personal life and to understand the ways in which they can exercise responsible and productive citizenship. While there are diverse views of social justice or the common good in a pluralistic society, students should learn that responsible citizenship requires them to develop skills to understand their own and others' positions, be part of the free exchange of ideas and function as public-minded citizens.

- a. examine, articulate, and apply their own ethical views.
- b. understand and apply core concepts (e.g. politics, rights and obligations, justice, liberty) to specific issues.
- c. analyze and reflect on the ethical dimensions of legal, social, and scientific issues.
- d. recognize the diversity of political motivations and interests of others.
- e. identify ways to exercise the rights and responsibilities of citizenship.

10. People and the Environment

To improve students' understanding of today's complex environmental challenges. Students will examine the interrelatedness of human society and the natural environment. Knowledge of both bio-physical principles and sociocultural systems is the foundation for integrative and critical thinking about environmental issues.

- a. explain the basic structure and function of various natural ecosystems and of human adaptive strategies within those systems.
- b. discern patterns and interrelationships of bio-physical and socio-cultural systems.
- c. describe the basic institutional arrangements (social, legal, political, economic, religious) that are evolving to deal with environment al and natural resource challenges.
- d. evaluate critically environmental and natural resource issues in light of understandings about interrelationships, ecosystems, and institutions.
- e. propose and assess alternative solutions to environmental problems.
- f. articulate and defend the actions they would take on various environmental issues.

Minnesota Transfer Curriculum (MnTC) Course List

To earn the full Minnesota Transfer Curriculum, all ten goal areas listed below must be completed. A total of at least 40 semester credits must be earned. Courses designated with a superscript (e.g., BIOL 1710) satisfy more than one goal area; however, credits are counted only once toward the 40-credit minimum requirement. A (p) indicates a prerequisite is required for that course. Completion of the MnTC meets the lower division general education requirements at Minnesota State Colleges and Universities and the University of Minnesota. Contact the Transfer Center staff for more information.

To follow the Associate in Science or Associate in Applied Science requirements for general education courses, choose from the MnTC courses in the next column, according to the distribution requirements for your degree. The Associate in Science degree requires 30 MnTC credits; the Associate in Applied Science degree requires 16 MnTC credits.

For any additions or changes in the MnTC Course List, contact a College Transfer Specialist in the Transfer Center.

Goal 1: Communication			Credits
ENGL	1711	Composition 1 (Required) (p)	4
ENGL	1712	Composition 2 (p)	2
ENGL	1730	Introduction to Technical Writing	3
ENGL	2790	Special Topics in English	1-6
SPCH	1700 ⁸	Introduction to Speech Communication	3
SPCH	1710 ⁸	Fundamentals of Public Speaking	3
SPCH	1720 ⁷	Interpersonal Communication	3
SPCH	1730 ⁸	Intercultural Communication	3
SPCH	1750 ⁹	Small Group Communication	3
SPCH	1770 ⁷	Family Communications	3
SPCH	1780 ⁷	Gender Communication	3
SPCH	1790	Special Topics in Speech	1-6

Goal 2: Critical Thinking

Fulfilled when all 10 goal areas (40 credits) are completed.

Goal 3	: Natural	Sciences	Credits
BIOC	1760	Chemical & Biological Instrumentation (p)	4
BIOC	1761 ⁹	Chemical & Biological Ethics and Regulations (p)	4
BIOC	1790	Special Topics in Biochemistry	1-6
BIOC	2700	Biochemistry (p)	4
BIOC	2790	Biochemistry Internship/Research Project	1-4
BIOL	172510*	Environmental Science	4
BIOL	1730*	Human Body Systems	3
BIOL	1735*	Understanding Biology	4
BIOL	1740*	General Biology 1: The Living Cell	5
BIOL	174510*	General Biology 2: The Living World (p)	5
BIOL	1760	Nutrition	3
BIOL	1782*	Introduction to Forensic Science	4
BIOL	1785 ⁹	Biology of Men and Women	3
BIOL	1790	Special Topics in Biology	1-6
BIOL	2721*	Human Anatomy & Physiology 1 (p)	4

BIOL	2722*	Human Anatomy & Physiology 2 (p)	4
BIOL	2750*	General Microbiology (p)	4
BIOL	2760	Cell and Molecular Biology (p)	3
BIOL	2770	Biology Internship	1-4
CHEM	1700*	Chemistry Concepts (p)	4
CHEM	1711*	Principles of Chemistry 1 (p)	4
CHEM	1712*	Principles of Chemistry 2 (p)	4
CHEM	2700	Organic Chemistry Survey (p)	4
CHEM	2720	Organic Chemistry 1 (p)	5
CHEM	2721	Organic Chemistry 2 (p)	5
CHEM	2790	Chemical Technology Laboratory Internship/Research Project	1-4
CHEM	2791	Cleanroom Lab Internship/ Research Project	1-4
CHEM	2795	Special Topics in Chemistry	1-4
NSCI	171010*	Earth Science	4
NSCI	172110*	Introduction to Geology	4
NSCI	173010*	Introduction to Oceanography	3
NSCI	174010*	Introduction to Meteorology	3
NSCI	175010*	Natural Disasters	3
NSCI	177010*	Introduction to Energy & the Environment	3
NSCI	1780 ⁹	Contemporary Issues in Science	3
NSCI	178210*	Minnesota Geology	3
NSCI	179010*	Special Topics in Natural Science	3
NSCI	2770	Natural Sciences Internship	1-4
PHYS	1720*	Principles of Physics 1 (p)	4
PHYS	1722*	Principles of Physics 2 (p)	4
PHYS	176010	Descriptive Astronomy (no lab)	3
PHYS	2700*	General Physics 1 (w/ Calculus) (p)	5
PHYS	2710*	General Physics 2 (w/ Calculus) (p)	5
PHYS	276010*	Introductory Astronomy (with lab)	3
PHYS	2790	Specil Topics in Physics	1-6
Goal 4	: Mathen	natical/Logical Reasoning	Credits
MATH	1710	Liberal Arts Mathematics (p)	3
MATH	1730	College Algebra (p)	3
MATH	1740	Introduction to Statistics (p)	4

Goal 5: History, Social Sciences, and Behavioral Sciences C				
ANTH	1710 ⁷	Introduction to Cultural Anthropology	4	
ANTH	172010	Introduction to Physical Anthropology	4	
ANTH	1730 ⁸	Gender and Culture in Global Perspective	3	
ANTH	1790	Special Topics in Anthropology	1-6	
ECON	1710	Introduction to the American Economy	3	

Ordinary Differential Equations (p)

*Course contains lab

Credits

MATH

MATH

MATH

MATH

MATH

MATH

MATH

PHIL

1750

1760

1790

2749

2750

2753

2760

1710

Trigonometry (p)

Special Topics in Mathematics

Pre-Calculus (p)

Calculus 1 (p)

Calculus 2 (p)

Calculus 3 (p)

Logic

(p) = Indicates prerequisite required for course

3

4

1-6 4

4

4

4

3

Goal 6: ARTS	Humani 1710	ties and Fine Arts Fundamentals of Photography 1	Credits 3
Goal 6:	Humani	ties and Fine Arts	Credits
		and Gender Studies	1-6
WGST	1790 ⁹	Special Topics in Women's	
WGST	1785 ⁹	Foundations in Women's Studies	3
SPCH	1740 ⁹	Mass Media and Communications	3
SOCI	1790	Special Topics in Sociology	1-6
SOCI	1780 ⁷	Alternative Sentencing Social Psychology	3
SOCI	1776 ⁹	Probation, Parole and	
SOCI	1774 ⁹	Introduction to Corrections	3
SOCI	1772 ⁹	Introduction to Criminal Justice	3
SOCI	1766 ⁹	Juvenile Delinquency	3
SOCI	1765 ⁷	Sociology of Crime and Deviance	3
SOCI	1760	Mass Media and Society	4
SOCI	1740 ⁸	Sociology of Work	3
SOCI	1730 ⁷	Sociology of Families and Relationship	3
SOCI	1720 ⁸	Social Problems	3
SOCI	1710 ⁷	Introduction to Sociology	4
PSYC	1790	Special Topics in Psychology	1-6
PSYC	1760 ⁷	Social Psychology	4
PSYC	1750 ⁷	Introduction to Health Psychology	3
PSYC	1740 ⁷	Abnormal Psychology (p)	4
PSYC	1720 ⁹	Psychology Throughout the Lifespan	3
PSYC	1710	General Psychology	4
POLS	1790 ⁹	Special Topics in Political Science	1-6
POLS	1760 ⁹	Introduction to Political Philosophy	3
POLS	1740 ⁹	Introduction to Political Science	3
POLS	1720 1740 ⁸	Introduction to World Politics	3
POLS	2790 ⁹	Introduction to American Government	3
HIST	2780 ⁷	Historical Methods	2
HIST	2780 ⁷	Special Topics in History	3
HIST	2740 ⁹	Immigration and Ethnic History of the United States	2
HIST	1770 ⁹	History of Women in the United States	3
HIST	1761 ⁸	History of World Civilizations since 1500	3
HIST	1760 ⁸	History of World Civilizations to 1500	3
HIST	1750 ¹⁰	Minnesota History	3
HIST	1746 ⁷	U.S. History Since 1865	4
HIST	1745 ⁷	U.S. History to 1865	4
HIST	1730 ⁸	Contemporary World History	3
GEOG	1750 ¹⁰	Minnesota Geography	3
GEOG	1740 ⁸	World Geography	3
GEOG	1720 ⁸	Human/Cultural Geography	3
GEOG	1700 ¹⁰	Physical Geography	3
ECON	1790	Special Topics in Economics	1-6
ECON	1720 ⁸	Microeconomics	3
ECON	1720 ⁸	Macroeconomics	3

ARTS	1710	Fundamentals of Photography 1	3
ARTS	1711	Fundamentals of Photography 2 (p)	3
ARTS	1712	Advanced Photography (p)	3
ARTS	1715	Black and White Photography 1	3
ARTS	1716	Black and White Photography 2 (p)	3
ARTS	1720 ⁸	Art Appreciation	3
ARTS	1722 ⁷	American Animation	3
-			

ARTS ARTS ARTS ARTS	1724 ⁷ 1726 ⁷ 1730 1731	The Design of Everyday Life Art in the Cities Drawing 1 Drawing 2 (p)	3 3 3
ARTS ARTS ARTS	1730 1731	Drawing 1	3
ARTS ARTS	1731		
ARTS	-	Drawing 2 (p)	
		Brawnig E (p)	3
ARTS	1732	Two-Dimensional Design	3
,	1740	Introduction to Painting	3
ARTS	1742	Intermediate Painting (p)	3
ARTS	1744	Introduction to Watercolor Painting	3
ARTS	1750	Introduction to Ceramics	3
ARTS	1752	Intermediate Ceramics (p)	3
ARTS	1760 ⁸	World Art	3
ARTS	1770	Art in the Americas	3
ARTS	1780	Beginning Printmaking	3
ARTS	1790	History of Photography	3
ARTS	1795	Special Topics in Art	1-6
ARTS	2710	Advanced Studio Arts	3-4
ARTS	2754	Advanced Ceramics (p)	3
ENGL	1720	Introduction to Creative Writing (p)	3
ENGL	1725	Introduction to Fiction Writing (p)	3
ENGL	1780 ⁷	Recently-Arrived Contemporary	
		Immigrant Literature	3
ENGL	1790 ⁷	Contemporary Writers of Color	3
ENGL	2721 ⁷	Survey of American Literature 1 (p)	3
ENGL	2722 ⁷	Survey of American Literature 2 (p)	3
ENGL	2725	Survey of British Literature (p)	3
ENGL	2730	Post-Civil War American Novel (p)	3
ENGL	2732	Exploring the Short Story (p)	3
ENGL	2740 ⁷	Native American Literature (p)	3
ENGL	2750 ⁷	African American Literature (p)	3
ENGL	2760	The English Novel (p)	3
ENGL	2770	Introduction to Poetry	3
ENGL	2775	Science Fiction and Fantasy (p)	3
ENGL	2778	Urban Literature-Lost in the City (p)	3
HUMA	1720 ⁸	The Ancient and Medieval World	4
HUMA	1730 ⁸	The Modern World	4
HUMA	1750 ⁸	Culture and Civilization:	-
		Spanish-Speaking Cultures	3
HUMA	1770	The Art of Film	3
HUMA	1780 ⁷	American Film	3
HUMA	1790 ⁸	International Film	3
HUMA	1795	Special Topics in Humanities	1-6
MUSC	1700	Music Theory and Lab 1	4
MUSC	1705	Music Theory and Lab 2 (p)	4
MUSC	1710	Music Theory and Lab 3 (p)	4
MUSC	1715	Music Theory and Lab 4 (p)	4
MUSC	1720	Fundamentals of Music	3
MUSC	1730	Concert Choir	2
MUSC	1735	Class Piano 1	2
	1736	Class Piano 2	2
MUSC	1740 ⁸	Music Appreciation	3
-	1740		
MUSC	1740 ²	History of Rock and Roll	3
MUSC MUSC		History of Rock and Roll Jazz History	3 3
MUSC MUSC MUSC	1745 ⁷		

*Course contains lab (p) = Indicates prerequisite required for course

MUSC	1765 ⁷	Music of Latin America and the Caribbean	3
MUSC	1770 ⁸	Music in World Cultures	3
MUSC	1790	Special Topics in Music	1-6
PHIL	1700	Introduction to Philosophy	3
PHIL	1715 ⁸	Philosophy of Scientific Reasoning	3
PHIL	1720 ⁹	Ethics	3
PHIL	1722 ⁹	Health Care Ethics	3
PHIL	1740 ⁸	World Mythology	3
PHIL	1742 ⁸	Greek and Roman Mythology	3
PHIL	1750 ⁸	Eastern Philosophy	3
PHIL	1760 ⁸	World Religions	3
PHIL	1790	Special Topics in Philosophy	1-6
SPAN	1730 ⁸	Intermediate Spanish 1 (p)	5
PHIL	1740 ⁸	Intermediate Spanish 2 (p)	5
THTR	1710	Introduction to Theatre	3
THTR	1716 ⁸	Theatre Around the World	3
THTR	1720	Exploring Theatre Arts	3
THTR	1725	Acting 1	3
THTR	1730	Theatre Stage Craft and performance	3
THTR	1740	Fundamentals of Playwriting: Playwriting 1	3
THTR	1790	Special Topics in Drama & Theatre	1-6
THTR	2725	Acting 2 (p)	3

Goal 7	: Human	Diversity	Credits
ANTH	17105	Introduction to Cultural Anthropology	4
ARTS	17226	American Animation	3
ARTS	17246	The Design of Everyday Life	3
ARTS	17266	Art in the Cities	3
ASLS	1435	Deaf Studies/Culture	3
ENGL	1780	Recently-Arrived Contemporary Immigrant Literature	3
ENGL	17906	Contemporary Writers of Color	3
ENGL	27216	Survey of American Literature 1 (p)	3
ENGL	27226	Survey of American Literature 2 (p)	3
ENGL	27406	Native American Literature (p)	3
ENGL	27506	African American Literature (p)	3
HIST	17455	U.S. History to 1865	4
HIST	1746 ⁵	U.S. History Since 1865	4
HIST	27805	Special Topics in History	1-6
HIST	27905	Historical Methods	2
HUMA	17806	American Film	3
MUSC	1745	History of Rock and Roll	3
MUSC	17506	Jazz History	3
MUSC	17606	American Music	3
MUSC	1765	Music of Latin America and the Caribbean	3
PSYC	17405	Abnormal Psychology (p)	4
PSYC	17505	Introduction to Health Psychology	3
PSYC	17605	Social Psychology	4
SOCI	1710 ⁵	Introduction to Sociology	4
SOCI	17305	Sociology of Families and Relationships	3
SOCI	17655	Sociology of Crime and Deviance	3
SOCI	17805	Social Psychology	4
SPCH	1720 ¹	Interpersonal Communication	3

SPCH	1770 ¹	Family Communication	3			
SPCH	1780 ¹	Gender Communication	3			
Gool 9	Clabal	Poronactiva	Credits			
ANTH	1730 ⁵	Perspective Gender and Culture in Global Perspective	3			
ARTS	1720	· · · · ·	3			
		Art Appreciation	3			
ARTS	17606	World Art	3			
ASLS	1413	American Sign Language 3 (p)				
ASLS	1414	American Sign Language 4 (p)	3			
CHIN	1710	Beginning Chinese 1	5			
CHIN	1720	Beginning Chinese 2 (p)	5			
CHIN	1790	Special Topics in Chinese	1-6			
ECON	17205	Macroeconomics	3			
ECON	17305	Microeconomics	3			
GEOG	17205	Human/Cultural Geography	4			
GEOG	17405	World Geography	3			
HIST	17305	Contemporary World History	3			
HIST	1760 ⁵	History of World Civilizations to 1500	3			
HIST	17615	History of World Civilizations since 1500	3			
HUMA	1720	The Ancient and Medieval World	4			
HUMA	17306	The Modern World	4			
HUMA	17506	Culture & Civilization: Spanish-Speaking Cultures	3			
HUMA	1790	International Film	3			
MUSC	1740		3			
MUSC	1740*	Music Appreciation Music in World Cultures	3			
PHIL	1740		3			
PHIL	1740*	World Mythology	3			
		Greek and Roman Mythology	3			
PHIL PHIL	17506	Eastern Philosophy World Religions	3			
POLS	1760 ⁶ 1740⁵	Introduction to International Relations				
			33			
SOCI	1720 ⁵	Social Problems	3			
SOCI		Sociology of Work				
SPAN	1710	Beginning Spanish 1	5			
SPAN	1720	Beginning Spanish 2 (p)	5			
SPAN	17306	Intermediate Spanish 1 (p)	5			
SPAN	17406	Intermediate Spanish 2 (p)	5			
SPAN	1790	Spanish for the Workplace	3			
SPAN	1795	Special Topics in Spanish	1-6			
SPCH	1700 ¹	Introduction to Speech Communications	3			
SPCH	1710 ¹	Fundamentals of Public Speaking	3			
SPCH	1730 ¹	Intercultural Communication	3			
THTR	17166	Theatre Around the World	3			
Goal 9	Ethic an	d Civic Responsibility	Credits			
BIOC	1761 ³	Chemical & Biological Ethics and Regulations (p)	4			
BIOL	1785 ³	Biology of Men and Women	3			
HIST	17705	History of Women in the United States	3			
HIST	27405	Immigration and Ethnic History of the				
		United States	3			
NSCI	1780 ³	Contemporary Issues in Science	3			
PHIL	1720	Ethics	3			
*Course	*Course contains lab					

*Course contains lab (p) = Indicates prerequisite required for course

PHIL	17226	Health Care Ethics	3
POLS	17205	Introduction to American Government	3
POLS	17505	Introduction to Politics	3
POLS	1760 ⁵	Introduction to Political Philosophy	3
POLS	17905	Special Topics in Political Science	1-6
PSYC	17205	Psychology Throughout the Lifespan	3
SOCI	17665	Juvenile Delinquency	3
SOCI	17725	Introduction to Criminal Justice	3
SOCI	1774 ⁵	Introduction to Corrections	3
SOCI	1776 ⁵	Probation, Parole and	
		Alternative Sentencing	3
SPCH	1750 ¹	Small Group Communication	3
SPCH	17405	Mass Media and Communications	3
WGST	1785⁵	Foundations in Women's Studies	3
WGST	1790 ⁵	Special Topics in Women's	
		and Gender Studies	1-6

Goal 10: People and the Environment			
ANTH	17205	Introduction to Physical Anthropology	4
BIOL	1725 ³ *	Environmental Science	4
BIOL	1745 ³ *	General Biology 2: The Living World (p)	5
GEOG	17005	Physical Geography	4
GEOG	17505	Minnesota Geography	3
HIST	17505	Minnesota History	3
NSCI	1710 ³ *	Earth Science	4
NSCI	1721 ³ *	Introduction to Geology	4
NSCI	1730 ³	Introduction to Oceanography	3
NSCI	1740 ³	Introduction to Meteorology	3
NSCI	1750 ³	Natural Disasters	3
NSCI	1770 ³	Introduction to Energy & the Environment	3
NSCI	1782 ³	Minnesota Geology	3
NSCI	1790 ³	Special Topics in Natural Science	3
PHYS	1760	Descriptive Astronomy (no lab)	3
PHYS	27603*	Introductory Astronomy (with lab)	3
*Course	contains l	ah	

*Course contains lab

(p) = Indicates prerequisite required for course

Transfer to Other Institutions

To ensure a smooth transfer from Saint Paul College to a four-year college or university, it is important to understand the types of degrees offered at the College:

The Associate in Arts (AA) degree is designed for transfer and offers flexibility in terms of the variety of colleges to which a student can transfer and in the variety of majors that can be chosen. The AA degree requires mostly general education courses (40 credits), which is what gives it more transferability. The AA degree consists of the Minnesota Transfer Curriculum (MnTC). Completion of the MnTC with a 2.0 GPA meets the general education requirements at any of the public Minnesota State Colleges and Universities institutions and the University of Minnesota. Several private colleges also honor the AA degree. Some four-year majors require specific general education courses referred to as premajor requirements.

Note: Course requirements may vary depending on the major and transfer college, so it is important to talk to a Transfer Specialist at Saint Paul College and to the appropriate person at the transfer college. Refer to the General Transfer Table.

For students who are undecided about their major and who are interested in a four-year degree, the AA is a good program to follow until deciding.

An Associate in Science (AS) degree is intended to prepare students for immediate employment; however, students can transfer to complete a Bachelor's degree when they transfer to colleges with which Saint Paul College has articulation agreements. In addition to technical requirements, the AS degree requires 30 credits of general education (MnTC) courses. Additional general education courses may be required to complete a Bachelor's degree, particularly if students transfer to a college where an articulation agreement does not exist. Refer to the Transfer Articulation Agreements Table.

An Associate in Applied Science (AAS) degree is intended mainly to prepare students for direct employment. Students who are following an AAS degree and who are interested in transfer are strongly advised to talk to a Saint Paul College Transfer Specialist in the Transfer Center as transfer options are more limited. In addition to technical requirements, the AAS degree requires 20 credits of general education (MnTC) courses. Additional general education courses typically would be required to complete a Bachelor's degree for students who transfer, particularly to colleges with which articulation agreements do not exist. Refer to the Transfer Articulation Agreements Table.

Understanding Transfer of Credits

The receiving college or university decides which credits transfer and if those credits meet its degree requirements; however; a course that meets a Minnesota Transfer Curriculum (MnTC) goal at Saint Paul College will meet the same goal at a Minnesota State Colleges and Universities institution.

Note: A course can meet a Minnesota Transfer Goal at the sending institution and yet may or may not be considered equivalent to a course at the receiving institution. The accreditation of both the sending and receiving institution can affect the transfer of credits earned, but it is not the only factor in determining transfer of credits.

Institutions accept credits from courses and programs like those they offer. They look for similarity in course goals, content and level: "like" transfers to "like." The name of a course is not sufficient to determine equivalency. Not everything that transfers counts toward graduation. Bachelor's degree programs usually count credits in three categories: general education, major/minor courses and prerequisites/ electives. The key question is, "Will your credits fulfill requirements of the degree or program you choose?"

A change in career goal or major might make it difficult to complete all degree requirements within the usual number of graduation credits.

Colleges and universities differ in how they accept courses and other types of college credits (CLEP, AP, IB international credits, etc.). Since requirements and acceptance of Saint Paul College credits differ from one college to another, it is important to talk to a Saint Paul College Transfer Specialist, consult college catalogs and Web sites and talk to advisors at the four-year institution. Transfer Specialists and other transfer resources are available in the Transfer Center. Transfer guides to four-year institutions may be available to provide guidance in selecting the courses intended to transfer from Saint Paul College. Also access the Saint Paul College Web site (<u>www.saintpaul.edu</u>) or the Minnesota Transfer Web site (<u>www.mntransfer.org</u>) for more information.

Obtain the following materials and information from the fouryear institution: college catalog transfer brochure, information on financial aid (how to apply and by what date), information about admissions criteria and materials required for admission. (e.g., transcripts, test scores, portfolio, etc.). Note that some majors have limited enrollment and/or special admission requirements such as specific grade point averages.

Note: Minnesota State Colleges and Universities and the University of Minnesota have high school preparation requirements for admission. Consult an advisor at your intended transfer school for more information.

After reviewing this information, contact the Transfer Center or someone in the division or program of interest. Be sure to ask about course transfer and admissions criteria.

Applying for Transfer Admission at Other Institutions

Application for admission is the first step in transferring. Fill out the application early, prior to the deadline and enclose the required application fee.

Request official transcripts be sent from all previously attended institutions. The student is also required to provide a high school transcript or GED test scores.

Make certain the college or university has been supplied with all the necessary paperwork. Most colleges make no decisions until all required documents are filed. If nothing has been heard from the intended college of transfer after one month, call to check on application status.

After receiving notification of acceptance, transcripted credits will be evaluated for transfer. A written evaluation should explain which courses transfer and which do not. How courses specifically meet degree requirements may not be decided until orientation or selection of a major.

Call the credit evaluator in the Office of Enrollment Services with questions or to find out why judgments were made about specific courses. Each student has the right to an appeal. See Your Rights as a Transfer Student.

Your Rights as a Transfer Student

Students are entitled to:

- A clear, understandable statement of an institution's transfer policy.
- A fair credit review and an explanation of why credits were or were not accepted.
- A copy of the formal appeals process.
- A review of eligibility for financial aid or scholarships.

Steps in the Appeals Process:

- 1. The student fills out an appeals form. Supplemental information provided to reviewers can include: a syllabus, course description, or reading list, depending upon the type of appeal.
- 2. A review by the appropriate department or committee will be conducted.
- 3. The decision is conveyed in writing to the student.
- 4. The student may appeal the decision.

For help with transfer questions or concerns, contact the Transfer Center or your advisor at the transfer college.

Transfer Articulation Agreements

Saint Paul College has formed articulation agreements with a number of public and private institutions to assist students following some AS, AAS, diploma or certificate programs with their transfer goals. Please see a Transfer Specialist for further information or see the *Transfer Articulation Agreements Table*.

General Transfer Table 2014-2015

For students following the Associate in Arts or other general transfer

The following table summarizes transfer to many colleges. Students who are planning to transfer to other institutions should work with transfer specialists at Saint Paul College and the college to which they are transferring. Certain majors require specialized coursework, so the following provides a guide for general transfer; it is not intended to cover specific requirements for all majors. Admission requirements may vary depending on the major the student is pursuing. Students should consult with the transfer college and use transfer guides to find out admission deadlines and requirements. Note: Students are free to explore transfer to any college, including colleges not listed in the following table.

Transfer guides are also available in the Transfer Center in Room 1365.

Saint Paul College	Degree	/ Major Offered	Transfer Institution
AA/MnTC	-	Various Majors	All Minnesota State Colleges and Universities
AA/MnTC	-	Various Majors	Augsburg College
AA	-	Various Majors	Bethany Lutheran
Selected Liberal Arts Courses	-	Various Majors	Bethel University
AA/MnTC	-	Various Majors	College of St. Scholastica
AA/MnTC	-	Various Majors	Concordia University
Selected Liberal Arts Courses	-	Various Majors	Hamline University
AS/AAS	-	Individualized Studies	Metropolitan State University
Selected Liberal Arts Courses	-	Various Majors	Minneapolis College of Art and Design
Selected Liberal Arts Courses	-	Various Majors	St. Catherine University
AA/MnTC	-	Various Majors	Saint Mary's University, Minneapolis
AA/MnTC	-	Various Majors	University of Minnesota
AA/MnTC	-	Various Majors	University of North Dakota
Selected Liberal Arts Courses	-	Various Majors	University of St. Thomas
AA/Selected Liberal Arts Courses	-	Various Majors	University of Wisconsin-River Falls
AA/Selected Liberal Arts Courses	-	Various Majors	University of Wisconsin-Stout

Transfer Articulation Agreements Table 2014-2015

For students following specified AS, AAS, diploma or certificate programs

Saint Paul College has formed articulation agreements with a number of public and private institutions to assist students with their transfer goals. These agreements facilitate credit transfer and provide a smooth transition from one related program to another. Please see a transfer specialist for additional information. Additional general education credits will likely be required to complete a degree. The number of credits that transfer may vary depending on the program. Note: Students are free to explore transfer to any college, including colleges not listed in the following table; however, the number of credits that transfer may be more limited. View articulation agreements on-line at www.mntransfer.org. Enter the "Student portal", select "Transfer Planning", and then "Articulation Agreements".

Saint Paul College	Degree	Major Offered	Transfer Institution
AA emphasis in Criminal Justice	BA	Criminal Justice	Metropolitan State University
Accounting AAS	BBA BBA BS	Accounting Finance Accounting	Concordia University Concordia University Saint Mary's University-Twin Cities Campus
Auto Body Repair AAS	BS	Operations Management	Minnesota State University-Moorhead
Auto Body Repair Diploma	BS	Operations Management	Minnesota State University-Moorhead
Automotive Service Technician AAS	BS BS	Operations Management Automotive Engineering Technology	Minnesota State University-Moorhead Minnesota State University, Mankato
Automotive Service Technician Diploma	BS	Operations Management	Minnesota State University-Moorhead
Biomedical Engineering Technology AS	BA	Individualized Studies	Metropolitan State University
Business Administration AAS	BS BA	Management Organizational Management and Leadership	Cardinal Stritch University-Woodbury Concordia University
	BS	Business	Saint Mary's University-Twin Cities Campus
Business Information Technology AAS	BA	Information Technology in Management	Concordia University
Business Management AS	BS BS	Management Business Administration	Cardinal Stritch University-Woodbury Metropolitan State University
Cabinetmaking Diploma	BS	Operations Management	Minnesota State University-Moorhead
Carpentry Diploma	BS	Operations Management	Minnesota State University-Moorhead
Chemical Technology AS	BS	Chemistry-ACS Approved	St. Cloud State University
Chemical Technology Certificate	BA	Individualized Studies	Metropolitan State University
Child Development AS	BS	Human Development & Family Studies	University of Wisconsin-Stout
Child Development AAS	BS	Human Development & Family Studies	University of Wisconsin-Stout
Child Development ASL AS	BS	Human Development & Family Studies	University of Wisconsin-Stout
Clinical Sports Massage AAS	BA BS BAS	Kinesiology Allied Healthcare Management Healthcare Leadership & Administration	Concordia University Saint Mary's University-Twin Cities Campus Winona State University
Computer Graphics and Visualization AS	BA BS	Technical Communication and Professional Writing Operations Management	Metropolitan State University Minnesota State University-Moorhead

continued

Saint Paul College	Degree	Major Offered	Transfer Institution
Computer Network Engineering AAS	BS	Operations Management	Minnesota State University-Moorhead
Computer Programming AAS	BS	Operations Management	Minnesota State University-Moorhead
Computer Science AS	BA	Individualized Studies	Metropolitan State University
Cosmetology AAS	BA	Individualized Studies	Metropolitan State University
Culinary Arts AAS	BA	Individualized Studies	Metropolitan State University
Entrepreneurship AAS	BS	Applied Organizational Studies	Minnesota State University, Mankato
Esthetician AAS	BS	Allied Healthcare Management	Saint Mary's University-Twin Cities Campus
Global Trade Specialist AAS	BAS BAS	International Commerce Organizational Administration	Metropolitan State University Metropolitan State University
Health Information Technology AAS	BS	Health Information Management	College of St. Scholastica
Health Sciences Broad Field AS	BS	Community Health, Exercise Science, Nursing (limited)	Bemidji State University
	BSN BS	Nursing (limited) Community Health, Exercise Science, Health Education	Metropolitan State University Minnesota State University-Moorhead
	BS	Communication Disorders, Foods and Nutrition, Dental Hygiene (limited), Therapeutic Recreation, Dietetics, Nursing (limited), Corrections, Psychology, Health Science, Social Work	Minnesota State University, Mankato
	BS	Athletic Training, Community Health, Social Work	St. Cloud State University
	BS BS	Exercise Science Biology, Health, Exercise and Rehabilitative Sciences, Movement Sciences, Exercise Science, Health	Southwest Minnesota State University Winona State University
		Promotion, Community Health, Nursing (limited)	
Hospitality Management AAS	BA	Individualized Studies	Metropolitan State University
Human Resources AAS	BS BS	Applied Organizational Studies Human Resource Management	Minnesota State University, Mankato Saint Mary's University-Twin Cities Campus
Management Information Systems AS	BA	Individualized Studies	Metropolitan State University
Marketing AAS	BS	Marketing	Saint Mary's University-Twin Cities Campus
Massage Therapy Certificate	BA	Kinesiology	Concordia University
Medical Laboratory Technician AAS	BS BS	Allied Healthcare Management Clinical Laboratory Science	Saint Mary's University-Twin Cities Campus Winona State University
Medical Office Professional AAS	BA	Individualized Studies	Metropolitan State University
Personal Trainer AAS	BA BS	Kinesiology Allied Healthcare Management	Concordia University Saint Mary's University-Twin Cities Campus
	BAS	Healthcare Leadership & Administration	Winona State University
Personal Trainer Diploma	BA	Kinesiology	Concordia University
Pipefitting Diploma	BS	Operations Management	Minnesota State University-Moorhead
Pipefitting Apprenticeship Service Diploma	BS	Operations Management	Minnesota State University-Moorhead
Pre-Engineering AS	BSE	General Engineering	Minnesota State University, Mankato
Respiratory Therapist AAS	BS BS BAS	Pulmonary Science Applied Health Healthcare Leadership & Administration	Concordia University University of Minnesota, Crookston Wiegna State University
Sheet Metal Diploma	BAS	Healthcare Leadership & Administration Operations Management	Winona State University Minnesota State University-Moorhead
Sign Language Interpreter/Transliterator AAS	BA	Individualized Studies	Metropolitan State University
	BS	Applied Organizational Studies	Minnesota State University, Mankato
Supply Chain Logistics AAS	BA	Marketing & Innovative Management	Concordia University
Truck Technician Diploma	BS	Operations Management	Minnesota State University-Moorhead
Visualization Technology AAS	BS	Operations Management	Minnesota State University-Moorhead
Welding Technology AAS	BS	Operations Management	Minnesota State University-Moorhead

Programs Degree, Diploma and Certificate

References to the Minnesota Transfer Curriculum (MnTC)

Throughout the following program pages, the Minnesota Transfer Curriculum (MnTC) will be referenced regarding General Education requirements. The MnTC has specific credit requirements and ten goal areas. Some program areas will have specific general education course numbers listed as "required" or "recommended" for MnTC goal areas. Notations such as "Goal 4: Mathematics/Logical Reasoning" will be listed instead of specific course numbers, which means that students may select specific courses from that MnTC goal area to fulfill the requirements of the program.

For example, if a program requires a non-specified, four-credit course in social or behavioral sciences, the program requirement would be listed as "Goal 5 – History, Social Science & Behavioral Sciences: 4 credits." This means that any four-credit course listed under Goal 5 of the Minnesota General Education Transfer Curriculum could be used to fulfill that requirement.

It may be necessary for students to select additional MnTC credits beyond the minimum number required in each goal area in order to reach the total MnTC/General Education credits required for their degree or program.

The specific courses for each MnTC Goal Area are listed on pages 33-36 in this Catalog and on our website at www.saintpaul.edu/TransferCenter.

Program Requirement Guides

Program Requirement Guides for each individual program are available in the Transfer Center, Career and Placement Center, and Enrollment Services.

The guides are also available on our Web site at www.saintpaul.edu/ProgramGuides.

Business	43
Career & Technical Education	81
Computer Graphics & Visualization	108
Health Science	116
Service	155
STEM: Science, Technology, Engineering & Math	178
Liberal Arts	202

Business Programs

The mission of the Business Department at Saint Paul College is to sustain the College mission by providing quality, lifelong business education supported by technology for a diverse, metropolitan student population.

Accounting

Accounting AAS Degree (60 Credits)
Accounting Technician Diploma (39 Credits)

Business Administrative Professional/ Business Technology

Business Administrative Professional AAS Degree
(60 Credits)
Business Certificate (16 Credits)
Business Information Technology AAS Degree (60 Credits) . 50
Business Information Technology Certificate (30 Credits) 52
Business Applications Specialist Certificate (25 Credits)53

Business Management

Business Management AS Degree (60 Credits)	
Leadership Certificate (27 Credits)55	
Nonprofit Certificate (27 Credits)	
Project Management Certificate (21 Credits)57	
Supervision Certificate (17 Credits)58	

Entrepreneurship

Entrepreneurship AAS Degree (60 Credits)59
Entrepreneurship Certificate (16 Credits)61
Music Business AAS Degree (60 Credits)62
Photography Entrepreneurship
(See Computer Graphics and Visualization Programs)

Finance

Finance Certificate	28 Credits)6	3
	,	

Global Trade

Global Trade Specialist AAS Degree (60 Credits)
Global Trade Professional Certificate (16 Credits)66

Hospitality Management

Human Resource Management

Human Resources AAS Degree (60 Credits)71	
Human Resources Specialist Certificate (29 Credits)73	
Human Resources Professional Certificate (18 Credits)74	

Marketing

Marketing AAS Degree (60 Credits)75	
Social Media Marketing Certificate (17 Credits)	

Supply Chain Logistics

Supply Chain Logistics AAS Degree (60 Credits)
Supply Chain Logistics Advanced Technical Certificate
(19 Credits)

Accounting AAS DEGREE

Program Overview

An accountant examines, analyzes, and interprets accounting data for the purpose of giving advice and preparing financial statements. Duties may include performing such activities as recording receipts and disbursements, and preparing state and federal reports. The accountant may prepare reports and statements on a computer or manually.

Excellent reading skills and a combination of interest and ability to concentrate on detail, an analytical mind, good judgment and absolute integrity are necessary for success in the field of accounting.

Career Opportunities

With more and more emphasis being placed on computer usage for accounting careers, opportunities for employment in this field are excellent. Rate of advancement may be swift and the rewards generous.

The accounting profession offers a vast arena of employment potential. Typical places of employment include accounting departments in governmental agencies, financial institutions, private business and industry, and public accounting firms. Other job titles may be tax accountant, cost accountant, staff accountant, government accountant, auditor or junior accountant. The financial accounting technician positions are found in the areas of public accounting, private accounting, non-profit accounting, auditing, taxation, cost accounting and managerial positions.

Program Outcomes

- 1. Graduates will possess the knowledge and skills for immediate employment in related business support areas.
- Graduates will be proficient in computer software and its application to financial accounting, taxation, and financial analysis.
- 3. Graduates will have knowledge of financial accounting theory and financial statement analysis.
- 4. Graduates will have completed general education requirements for employment and personal roles.
- 5. Graduates will serve their employers and clients in all phases of accounting, including financial accounting, managerial accounting and tax accounting.
- 6. Graduates will have critical thinking skills.

student population.

The mission of the Business Department at Saint Paul College is to sustain the

lifelong business education supported by technology for a diverse, metropolitan

College mission by providing quality,

Program Advisors

Jim O'Halloran james.o'halloran@saintpaul.edu Kendal Loewen kendal.loewen@saintpaul.edu

Part-time/Full-time Options

Some day, evening, and Saturday class availability. Students may attend full-time or part-time.

Program Requirements

 \blacksquare Check off when completed

Required Business Core

- Professional Component

Course Cr
 ACCT 1412 Principles of Accounting 2 4 ACCT 1511 Federal Taxation 1 4 ACCT 1512 Federal Taxation 2 4 ACCT 1521 Accounting Computer Applications 4 ACCT 2411 Intermediate Accounting 4 ACCT 2420 Managerial Accounting
General Education/MnTC Requirements Cr
Refer to the Minnesota Transfer Curriculum Course List for each Goal Area Goal 1: Communication7

Information is subject to change. This Program Requirements Guide is not a contract.

Program Start Dates

Fall, Spring, Summer

Course Sequence

The course sequence listed on the back of this guide is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

Transfer Opportunities

Saint Paul College has transfer articulation agreements between the following program and post-secondary institutions for the baccalaureate degree programs listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Accounting AAS

Cr

- BBA Accounting Concordia University
- BBA Finance Concordia University
- BS Accounting Saint Mary's University-Twin Cities Campus

See back of guide for Course Sequence



 ${\boldsymbol{\mathsf{S}}}$ tudents entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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Accounting AAS DEGREE (continued)

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

ACCT 1411 Principles of Accounting 14 BTEC 1421 Business Info Applications 1 OR CSCI 2410 Mgmt Info Systems3 BTEC 1445 Business Communications3 BUSN 1410 Introduction to Business3 Mn Transfer Curriculum3 Total Semester Credits16
Second Semester ACCT 1412 Principles of Accounting 24 ACCT 1521 Accounting Computer Applications4 BUSN 2470 Legal Environment of Business3 ECON 1720 Macroeconomics OR ECON 1730 Microeconomics3 Total Semester Credits14
Third Semester ACCT 1511 Federal Taxation 1
Fourth SemesterACCT 1512 Federal Taxation 2

Total Program Credits60

Accounting Technician DIPLOMA

Program Overview

The Accounting Technician monitors and controls various types of electronic data processing equipment used to process accounting data. Applications would include automated general ledger and other accounting subsystems, spreadsheet applications, database management, and the use of graphics. The Accounting Technician may also assist in the planning and implementation of automated accounting systems.

Excellent reading skills and a combination of interest and ability to concentrate on detail, an analytical mind, good judgment and absolute integrity are necessary for success in the field of accounting.

Career Opportunities

With more and more emphasis being placed on computer usage for accounting careers, opportunities for employment in this field are excellent. Rate of advancement may be swift and the rewards generous.

The Accounting profession offers a vast arena of employment potential. Typical places of employment include accounting departments in governmental agencies, financial institutions, private business and industry, and public accounting firms. Other job titles may be tax accountant, cost accountant, staff accountant, government accountant, auditor or junior accountant. The financial accounting technician positions are found in the areas of public accounting, private accounting, non-profit accounting, auditing, taxation, cost accounting and managerial positions.

Program Outcomes

- 1. Graduates will possess the knowledge and skills for immediate employment in related business support areas.
- Graduates will be proficient in computer software and its application to financial accounting, taxation, and financial analysis.
- 3. Graduates will have knowledge of financial accounting theory and financial statement analysis.
- Graduates will serve their employers and clients in all phases of accounting, including financial accounting, managerial accounting and tax accounting.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Advisors

Jim O'Halloran james.o'halloran@saintpaul.edu Kendal Loewen kendal.loewen@saintpaul.edu

Part-time/Full-time Options

Some day, evening, and Saturday class availability. Students may attend full-time or part-time.

Program Requirements

 \blacksquare Check off when completed

Course Cr
□ ACCT 1411 Principles of Accounting 1
□ ACCT 1412 Principles of Accounting 2 4
□ ACCT 1511 Federal Taxation 1
□ ACCT 1512 Federal Taxation 2 4
□ ACCT 1521 Accounting Computer Applications 4
□ ACCT 2420 Managerial Accounting
□ ACCT 2540 Financial Modeling for Spreadsheets . 4
□ BTEC 1421 Business Information Applications 1 3
□ BUSN 1480 Business Career Resources
COMM XXXX Communication course
(Choose a SPCH course, 1000 level or
higher, or ENGL 1711 or higher)
Subtotal
Business Elective

Total Program Credits 39

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

2014 - 2015

First Semester

<u>Cr</u> 4	ACCT 1411 Principles of Accounting 1
4 4 4 4 4 4 3	Second SemesterACCT 1412 Principles of Accounting 2
.1 .3 35 4	Third SemesterACCT 1521 Accounting Computer Applications4ACCT 2420 Managerial Accounting4ACCT 2540 Financial Modeling for Spreadsheets4BUSN 1480 Business Career Resources1Total Semester Credits13
39	Total Semester Credits

Minimum Program Entry Requirements

 ${\bf S}$ tudents entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

003D (7002)

or part-time. full-time stud required. Cor

— First Sem

Business Administrative Professional AAS DEGREE

Program Overview

Effective use of people, technology, systems, equipment, and space are the keys to competent office management. Students graduating from this program are prepared to manage functions in the business environment. The Business Administrative Professional AAS is recommended for experienced staff (those wishing to increase their potential for promotion), as well as entrylevel employees. Graduates will have expert skills and in-depth software knowledge.

Career Opportunities

The opportunities for employment in the business sector are unlimited depending on the individual's strengths and interests. Employment is expected to grow at an average pace despite mergers and takeovers. The jobs that are expected to grow the fastest are with service and professional firms. Earnings vary with size of company, location, industry, function, responsibilities, education, experience, and ability.

Program Outcomes

- 1. Graduates will possess the knowledge and skills for immediate employment in related business support areas.
- 2. Graduates will be experienced in business protocol via internships and/or capstone courses.
- 3. Graduates will have successfully mastered the general education program requirements for work and life roles.
- 4. Graduates will be proficient in the use of business administration skills and software applications.

Transfer Opportunities

Saint Paul College has transfer articulation agreements between the following program and post-secondary institutions for the baccalaureate degree programs listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Business Administration AAS

- BS Management
 - Cardinal Stritch University-Woodbury
- Organizational Management and Leadership ΒA Concordia University
- BS **Business** Saint Mary's University-Twin Cities Campus

Program Requirements

☑ Check off when completed

Required Business Core

Required Business Core	Cr
Professional Component	_
□ ACCT 1411 Principles of Accounting 1	.4
□ BTEC 1421 Business Information Applications 1	.3
□ BTEC 1445 Business Communications	.3
□ BUSN 1410 Introduction to Business	.3
□ BUSN 2470 Legal Environment of Business	.3

Course

□ BTEC 1423 Business Information Applications 24
□ BTEC 1530 Communication Technology4
□ BTEC 2410 Business Procedures4
□ BTEC 2550 Emerging Business Technologies4
□ BUSN 1440 Marketing Principles
□ BUSN 2450 Management Fundamentals
Business Electives
Choose 5 credits from the following electives:
□ ACCT 1412 Principles of Accounting 2 4
□ BTEC 1410 Advanced Keyboarding
Applications
□ BTEC 2506 Business Information
Applications 3
□ BUSN 1480 Business Career Resources 1
□ HSPM 1440 Event Management & Planning .3
Subtotal

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

- Goal 1: Communication7 ENGL 1711 Composition 1 (required) - 4 cr SPCH XXXX (required) (Goal 1 only) – 3 cr
- □ Goal 3 or Goal 4.....4 Goal 3: Natural Sciences OR Goal 4: Mathematical/Logical Reasoning
- □ Goal 5: History, Social Science, and ECON 1720 Macroeconomics (required) - 3 cr OR ECON 1730 Microeconomics (required) - 3 cr

Total Program Credits 60

Program Advisors

Linda Hughes	linda.hughes@saintpaul.edu 651.846.1529
Linda Pyzik	linda.pyzik@saintpaul.edu 651.846.1356
Christine Peterson	christine.peterson@saintpaul.edu 651.846.1717

Part-time/Full-time Options

This program can be completed by using a combination of day, evening and online courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Start Dates

Fall, Spring, Summer

Cr

Cr

Course Sequence

The course sequence listed on the back of this guide is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

See back of guide for Course Sequence

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGI 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Keyboarding Skills: Minimum of 40 WPM with 3 errors or less or a grade of "C" or better in BTEC 1400.

Computer Skills: Basic computer skills such as word processing, spreadsheets, and Internet usage or a grade of "C" or better in BTEC 1418.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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Information is subject to change. This Program Requirements Guide is not a contract.

2014 - 2015

2014 – 2015

Business Administrative Professional AAS DEGREE (continued)

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

ACCT 1411 Principles of Accounting 14
BTEC 1421 Business Info Applications 1 OR
CSCI 2410 Mgmt Info Systems3
BTEC 1445 Business Communications3
BUSN 1410 Introduction to Business3
ENGL 1711 Composition 1
Total Semester Credits
Second Semester
BTEC 1423 Business Information Applications 2 4
BTEC 1530 Communication Technology4
Bree 1550 Communication recimology
BTEC 2410 Business Procedures

SPCH 17XX Any Goal 1 Speech Course	. 3
Total Semester Credits	15

Third Semester

BTEC 2550 Emerging Business Technologies4
BUSN 1440 Marketing Principles
BUSN 2470 Legal Environment of Business3
ECON 1720 Macroeconomics OR
ECON 1730 Microeconomics3
Total Semester Credits
Fourth Semester
Fourth Semester BUSN 2450 Management Fundamentals
BUSN 2450 Management Fundamentals

Total Program Credits								 6	50	

Business CERTIFICATE

Program Overview

The business certificate consists of five business core classes that are required for all business degree majors. After completion, students may decide at that time which business degree program they would like to complete. This certificate provides a basic understanding of business.

Career Opportunities

There are many opportunities in the business area based on the individual's strengths and interests. Employment for entry level positions is expected to grow in the service and professional business industries. Students completing the Business Certificate can provide support for businesses.

Program Outcomes

- Graduates will possess the basic knowledge and skills for entry level employment in related business support areas.
- 2. Graduates will be proficient in Microsoft Office applications.
- 3. Graduates will have understanding of core business practices.
- 4. Graduates will be knowledgeable in the use of business administration skills.

Program Faculty

Mindy Travers mindy.travers@saintpaul.edu Craig Maus craig.maus@saintpaul.edu Susan Senger susan.senger@saintpaul.edu

Part-time/Full-time Options

Classes are offered day, evening, weekend and online. Students may attend full-time or part-time.

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

Course	Cr
□ ACCT 1411 Principles of Accounting 1	4
□ BTEC 1421 Business Information Applications 1	3
□ BTEC 1445 Business Communications	3
□ BUSN 1410 Introduction to Business	3
□ BUSN 2470 Legal Environment of Business	3

Total Program Credits 16

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student. Students can complete this certificate in one semester. All courses are offered fall, spring and summer semester.

First Semester

ACCT 1411 Principles of Accounting 1	4
BTEC 1421 Business Information Applications 1	3
BTEC 1445 Business Communications	3
BUSN 1410 Introduction to Business	3
BUSN 2470 Legal Environment of Business	3

Total Program Credits 16

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

331C (7166)

Information is subject to change. This Program Requirements Guide is not a contract.

2014 - 2015

Business Information Technology AAS DEGREE

Program Overview

A graduate of the Business Information Technology AAS Degree will be trained for a business and information support position that may use a wide range of systems and software applications such as database, spreadsheet, presentation graphics, word processing, and integrated software applications, business Web sites, templates, and desktop publishing. Students graduating with the Business Information Technology degree can provide support for business systems end-users and assist with business training, problem solving, and troubleshooting.

Graduates in this program are equipped with knowledge of cutting-edge technology and software, a professional attitude, enhanced skills in the business environment, the ability to work independently or in workgroups under pressure and within deadlines, and flexibility to cope with interruptions and business system/software problems.

Program graduates are working in small and large companies. Other graduates are continuing their education. Graduates in this program cover content in preparation for the Microsoft Certified Application Specialist certification exams.

Career Opportunities

Opportunities are excellent for skilled, capable, and dependable graduates. Graduates can be employed in a variety of business administrative and information support positions that require advanced technical training such as: administrative assistant, office coordinator, assistant manager, and executive assistant.

Program Outcomes

- 1. Graduates will possess the knowledge and skills for immediate employment in related business support areas.
- 2. Graduates will be experienced in business protocol via course projects and capstone courses.
- 3. Graduates will have successfully mastered the general education program requirements for work and life roles.
- 4. Graduates will be proficient in the use of business software applications.
- 5. Graduates will have critical thinking skills.

Program Advisors

Linda Hughes	linda.hughes@saintpaul.edu 651.846.1529
Linda Pyzik	linda.pyzik@saintpaul.edu 651.846.1356
Christine Peterson	christine.peterson@saintpaul.edu 651.846.1717

Part-time/Full-time Options

Some day, evening, and Saturday class availability. Students may attend full-time or part-time.

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

Required Business Core

Professional Component ACCT 1411 Principles of Accounting 14 BTEC 1421 Business Information Applications 13 BTEC 1445 Business Communications3 BUSN 1410 Introduction to Business3 BUSN 2470 Legal Environment of Business3 Required Business Core
Course Cr
□ BTEC 1410 Advanced Keyboarding Applications 3 □ BTEC 1423 Business Information Applications 2 4 □ BTEC 1530 Communication Technology 4 □ BTEC 2410 Business Procedures 4 □ BTEC 2506 Business Information Applications 3 4 □ BTEC 2506 Business Information Applications 3 4 □ BTEC 2506 Emerging Business Technologies 4 □ Business electives
General Education/MnTC Requirements Cr

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

- Goal 1: Communication7 ENGL 1711 Composition 1 (required) - 4 cr SPCH XXXX (required) (Goal 1 only) – 3 cr
- □ Goal 3 or Goal 4.....4 Goal 3: Natural Sciences BIOL 1725 Environmental Science - 4 cr OR Goal 4: Mathematical/Logical Reasoning
- □ Goal 5: History, Social Science, and ECON 1720 Macroeconomics (required) - 3 cr OR ECON 1730 Microeconomics (required) - 3 cr

Program Start Dates

Fall, Spring, Summer

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Business Information Technology AAS

Information Technology in Management ΒA Concordia University

Course Sequence

Cr

The course sequence listed on the back of this guide is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

See back of guide for Course Sequence

Information is subject to change. This Program Requirements Guide is not a contract.

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Keyboarding Skills: Minimum of 40 WPM with 3 errors or less or a grade of "C" or better in BTEC 1400

Computer Skills: Basic computer skills such as word processing, spreadsheets, and Internet usage or a grade of "C" or better in BTEC 1418.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

281A (7144)



The mission of the Business Department at Saint Paul College is to sustain the College mission by providing quality, lifelong business education supported by technology for a diverse, metropolitan student population.

Business Information Technology AAS DEGREE (continued)

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

ACCT 1411 Principles of Accounting 14 BTEC 1421 Business Info Applications 1 OR CSCI 2410 Mgmt Info Systems3 BTEC 1445 Business Communications3 BUSN 1410 Introduction to Business3 ENGL 1711 Composition 14 Total Semester Credits17
Second SemesterBTEC 1410 Advanced Keyboarding Applications.BTEC 1423 Business Information Applications 2BTEC 2410 Business Procedures.4SPCH 17XX Any Goal 1 Speech Course.3Total Semester Credits.
Third Semester BTEC 1530 Communication Technology4 BTEC 2506 Business Information Applications 34 BUSN 2470 Legal Environment of Business3 ECON 1720 Macroeconomics OR ECON 1730 Microeconomics3 Total Semester Credits14
Fourth SemesterBTEC 2550 Emerging Business TechnologiesBusiness Electives4Mn Transfer Curriculum7Total Semester Credits15
Total Program Credits60

Business Information Technology CERTIFICATE

Program Overview

The Business Information Technology Certificate graduate will work in a business support position that may use a wide range of systems and software applications such as databases, spreadsheets, graphics, word processing, integrated software applications, business Web sites, templates, and desktop publishing. Students graduating from the Business Information Technology program provide support for business systems and end-users. Graduates may assist with business training, problem solving, and troubleshooting.

Graduates in this program are equipped with knowledge of cutting-edge technology and software and have enhanced skills for use in the business environment. Graduates may work independently or in workgroups under pressure and within deadlines. Program graduates work in small and large companies.

Career Opportunities

Opportunities are excellent for skilled, capable, and dependable graduates. Graduates can be employed in a variety of business, administrative, and information support positions that require advanced technical training such as: administrative assistants, office coordinators, assistant managers, and executive assistants.

Program Outcomes

- 1. Graduates will possess the knowledge and skills for immediate employment in related business support areas.
- 2. Graduates will have successfully mastered the general education program requirements for work and life roles.
- 3. Graduates will be proficient in the use of business software applications.

Program Advisors

Linda Hughes	linda.hughes@saintpaul.edu 651.846.1529
Linda Pyzik	linda.pyzik@saintpaul.edu 651.846.1356
Christine Peterson	christine.peterson@saintpaul.edu 651.846.1717

Part-time/Full-time Options

Some day, evening, and Saturday class availability. Students may attend full-time or part-time.

Program Requirements

 \blacksquare Check off when completed

Required Business Core

Professional Component	
□ BTEC 1421 Business Information Applications 1	3
□ BTEC 1445 Business Communications	3
Required Business Core	6

Cr Course □ BTEC 1401 Skillbuilding for Keyboarding 2 □ BTEC 1410 Advanced Keyboarding Applications . 3 □ BTEC 1423 Business Information Applications 2... 4 □ BTEC 1530 Communication Technology 4 □ BTEC 2410 Business Procedures 4 Choose 4 credits from the following electives: □ BTEC 2506 Business Information Applications 3 4 □ BTEC 2550 Emerging Business Technologies 4 □ BUSN 1480 Business Career Resources 1 □ DGIM 1443 Developing Web Sites with DGIM 1448 Creating Web Animation

General Education Requirements □ SPCH 1720 Interpersonal Communications is recommended.

Total Program	Credits			30

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

Cr

BTEC 1401 Skillbuilding for Keyboarding. 2 BTEC 1410 Advanced Keyboarding Applications. 3 BTEC 1421 Business Information Applications 1 3 BTEC 2410 Business Procedures. 4
SPCH 1720 Interpersonal Communications
(recommended)
Total Semester Credits
Second Semester
Second Semester BTEC 1423 Business Information Applications 2 4
BTEC 1423 Business Information Applications 2 4
BTEC 1423 Business Information Applications 2 4 BTEC 1445 Business Communications
BTEC 1423 Business Information Applications 2 4 BTEC 1445 Business Communications

Total Program Credits 30	Total Program	Credits																30
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Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements:
Reading: Score of 78+ or grade of "C" or better in READ 0722
Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410
Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742
Keyboarding Skills: Minimum of 40 WPM with

3 errors or less or a grade of "C" or better in BTEC 1400.

Computer Skills: Basic computer skills such as word processing, spreadsheets, and Internet usage or a grade of "C" or better in BTEC 1418.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

282C (7145)

Information is subject to change. This Program Requirements Guide is not a contract.

Cr

2014 - 2015

Business Applications Specialist CERTIFICATE

Program Overview

Business Applications Specialists utilize a wide range of business systems and software applications such as: electronic mail, the Internet, word processing, Excel worksheets, Access database management, PowerPoint presentation graphics, planning and scheduling, desktop publishing, and business Web site development.

Graduates in this program will have excellent technical software support skills. Professionals in this field enjoy working with computers and software, show a strong interest in emerging technology, and have a strong desire to work as part of a team.

The Business Applications specialist certificate is a short-term, concentrated format that is recommended for experienced business staff who are looking for advancement or enhancement within their current organization, or students wanting to quickly enter the business market with strong computer software skills.

Students may complete courses in the Business Applications Specialist Certificate online. To be successful in an online course, students must have easy access to the Internet, ability to work independently, be self-disciplined and self-motivated and have good time management skills.

Career Opportunities

Employment opportunities will continue to grow in this business software support area. The Business Application Specialist program is designed to provide students with advanced Microsoft Office software skills. Graduates will possess the necessary skills to be employed in a variety of business support positions such as: Administrative Assistants, Executive Assistants, Virtual Coordinators, Software User Support Specialists, Office Systems Specialists, Assistant Managers, Project Assistants, Office Coordinators, and Desktop Publishing Specialists.

Program Outcomes

- 1. Graduates will possess the knowledge and skills for immediate employment in related professional software support areas.
- 2. Graduates will have successfully mastered the general education program requirements for work and life roles.
- 3. Graduates will be prepared for the Microsoft Office certification in Word, Excel, Access and PowerPoint.

The mission of the Business Department at Saint Paul College is to sustain the College mission by providing quality, lifelong business education supported by technology for a diverse, metropolitan student population.

Program Advisors

Linda Hughes	linda.hughes@saintpaul.edu 651.846.1529
Linda Pyzik	linda.pyzik@saintpaul.edu 651.846.1356
Christine Peterson	christine.peterson@saintpaul.edu 651.846.1717

Part-time/Full-time Options

Some day, evening, online, and Saturday class availability. Students may attend full-time or part-time.

Program Requirements

☑ Check off when completed

Students may complete courses in the Business Applications Specialist Certificate online. To be successful in an online course, students must have easy access to the Internet, ability to work independently, be self-disciplined and self-motivated and have good time management skills.

Required Business Core

Professional Component □ BTEC 1421 Business Information Applications 1 3 □ BTEC 1445 Business Communication
Course Cr
 BTEC 1423 Business Information Applications 2 4 BTEC 1530 Communication Technology 4 BTEC 2506 Business Information Applications 3 4 BTEC 2550 Emerging Business Technologies 4 Subtotal
General Education Requirements Cr
 SPCH 1720 Interpersonal Communications is recommended. General Education Requirements

Total Program Credits 25

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

Cr

BTEC 1421 Business Information Applications 1 3
BTEC 1445 Business Communication 3
SPCH 1720 Interpersonal Communications
(recommended)
Total Semester Credits9
Second Semester
BTEC 1423 Business Information Applications 2 4
BTEC 1530 Communication Technology 4
Total Semester Credits
Third Semester
BTEC 2506 Business Information Applications 3 4

BTEC 2506 Business Information Applications 3	4
BTEC 2550 Emerging Business Technologies	4
Total Semester Credits	8

Total Program Credits 25

Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Keyboarding Skills: Minimum of 40 WPM with 3 errors or less or a grade of "C" or better in BTEC 1400.

Computer Skills: Basic computer skills such as word processing, spreadsheets, and Internet usage or a grade of "C" or better in BTEC 1418.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

283C (7146)

2014 - 2015

Business Management AS DEGREE

Program Overview

The Business Management AS degree prepares students for general management responsibilities. Students learn about the functions of business, including accounting, management, marketing, and human resources. Students study a broad background of business and liberal arts subjects that prepare them for entry-level positions in business. This degree is designed for students to continue their education in business towards a bachelor's degree at four-year institutions. Some bachelor degree majors include Management, Marketing, Accounting, Human Resources, and International Business. This program is also available completely online.

Career Opportunities

Employment opportunities are very good for skilled, capable, and dependable business professionals. Employers are looking for business professionals with excellent communication skills, organizational skills, human relation skills and enthusiasm for the job and organization. Graduates should continue their education towards a bachelor's degree or begin work in a variety of settings. Graduates can explore opportunities that match their interests and education in a variety of industries.

Program Outcomes

- 1. Graduates will have the skills, knowledge, and abilities, in core business functions including accounting, marketing, and management.
- Graduates will have a basic understanding of the laws that impact the business environment.
- 3. Graduates will be prepared for entry-level employment in business.
- 4. Graduates will have successfully mastered the general education requirements for work and life roles.

Transfer Opportunities

Saint Paul College has transfer articulation agreements between the following program and post-secondary institutions for the baccalaureate degree programs listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Business Management AS

- BS Management Cardinal Stritch University-Woodbury
- BS Business Administration Metropolitan State University



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Program Advisor

Mindy Travers mindy.travers@saintpaul.edu Craig Maus craig.maus@saintpaul.edu Susan Senger susan.senger@saintpaul.edu

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, Saturday and online courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

☑ Check off when completed

Required Business Core

Professional Component
□ ACCT 1411 Principles of Accounting 14
□ BTEC 1445 Business Communications
□ BTEC 1421 Business Information Applications 1 OR
CSCI 2410 Management Information Systems3
□ BUSN 1410 Introduction to Business
□ BUSN 2470 Legal Environment of Business 3
Required Business Core

Course

 ACCT 1412 Principles of Accounting 2 BUSN 1440 Marketing Principles BUSN 1480 Business Career Resources BUSN 2450 Management Fundamentals Business Management Electives Business Elective recommendations: BUSN 2473 Project Management	3 1 3 3
General Education/MnTC Requirements	Cr
Refer to the Minnesota Transfer Curriculum Course Lis for each Goal Area Goal 1: Communication	
ENGL 1711 Composition 1 (required) – 4 cr	

- ENGL 1711 Composition 1 (required) 4 cr SPCH 1710 Public Speaking – 3 cr (recommended) Goal 3 or Goal 4.....4
- Goal 3: Natural Sciences BIOL 1725 Environmental Science – 4 cr OR Goal 4: Mathematical/Logical Reasoning MATH 1740 Intro to Statistics – 4 cr

Information is subject to change. This Program Requirements Guide is not a contract.

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions at 651.846.1630 ext. 5769, or 651.846.1531.

First Semester

ACCT 1411 Principles of Accounting 14
BTEC 1421 Business Info Applications 1 OR
CSCI 2410 Mgmt Info Systems3
BUSN 1410 Introduction to Business
ENGL 1711 Composition I4
Total Semester Credits

Second Semester

Cr

Cr

ACCT 1412 Principles of Accounting 24
BUSN 2470 Legal Environment of Business3
ECON 1720 Macroeconomics OR
ECON 1730 Microeconomics
Humanities and Fine Arts (Goal 6)3
SPCH 1710 Fundamentals of Public Speaking3
Total Semester Credits16

Third Semester

BTEC 1445 Business Communications3
BUSN 1440 Marketing Principles
BUSN 2450 Management Fundamentals
BUSN 1480 Business Careers Resources1
MATH 1740 Introduction to Statistics OR
BIOL 1725 Environmental Science 4
Total Semester Credits14

Fourth Semester

BUSN 2480 Business Management Internship OR
Business Technical Electives3
Mn Transfer Curriculum13
Total Semester Credits
Total Program Credits

Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements:
Reading: Score of 78+ or grade of "C" or better in READ 0722
Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410
Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742
Assessment Results and Prerequisites: Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

233S (7100)

Leadership CERTIFICATE

Program Overview

The Leadership Certificate program is designed for students who have a desire to learn or enhance specific leadership skills and behaviors such as effectively leading others, managing initiatives, influencing change in the organization, and helping employees achieve their goals while contributing to an organization's productivity and success.

The program is targeted at emerging leaders, as well as those currently leading a group, function or business team. This certificate program covers the fundamental areas of successful leadership including self-development, interpersonal development, community/societal development, and organizational development.

Leaders today face enormous challenges such as employee motivation, navigating change and building work relationships. Enrolling in this certificate program will give students the tools needed to become leaders who can make a positive impact on an organization, respond to business needs, create strategic innovation, and obtain a competitive advantage and profitable growth for an organization. Our leadership certificate program allows students to discover and explore what it takes to be a skilled and effective leader.

The leadership certificate program consists of ten courses focused on providing essential leadership information, delivered in a timely manner designed to fit busy work and family schedules.

Program Outcomes

- Graduates will have a self-awareness of personal leadership style, strengths and skills, and how these impact others in an organization.
- 2. Graduates will be equipped with a solid foundation in leadership.
- 3. Graduates will be able to apply leadership theory, organizational behavior theory, change theory, and communication theory and demonstrate best practices in organizational leadership on the job.
- 4. Graduates will have a working knowledge of leadership practices consistent with ethical, legal, and regulatory expectations.
- Graduates will be able to develop characteristics, habits, skills and the understanding necessary for leadership in a complex and cross-cultural environment.
- Graduates will understand the interrelationships among society, communities, teams, and individuals and how to have an influential presence in these areas.
- 7. Graduates will have a competitive advantage in job and career development.

Program Advisor

Kelly Olson kelly.olson@saintpaul.edu 651.846.1439

Part-time/Full-time Options

Some day, evening, and Saturday class availability. Students may attend full-time or part-time.

Program Requirements

☑ Check off when completed

Course

□ BTEC 1445 Business Communications
□ BUSN 2410 Critical Thinking for Decision Making. 2
□ BUSN 2450 Management Fundamentals 3
BUSN 2463 Organizational Leadership and
Decision Making
□ BUSN 2464 Leading and Coaching Others 2
□ BUSN 2465 Business Ethics 3
□ BUSN 2466 Managing Change and Conflict 2
□ BUSN 2471 Strategic Planning 3
□ BUSN 2472 Business Negotiation Skills 3
□ HMRS 2410 Employee/Labor Relations 3

Total Program Credits27

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

Cr

BTEC 1445 Business Communications
BUSN 2463 Organizational Leadership and
Decision Making 3
BUSN 2464 Leading and Coaching Others 2
Total Semester Credits
Second Semester
BUSN 2465 Business Ethics 3
BUSN 2466 Managing Change and Conflict 2
BUSN 2466 Managing Change and Conflict. 2 BUSN 2471 Strategic Planning 3
000
BUSN 2471 Strategic Planning 3
BUSN 2471 Strategic Planning3BUSN 2472 Business Negotiation Skills3

Minimum Program Entry Requirements Students entering this program must meet the

following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites. 307C (7155)

2014 - 2015

Nonprofit CERTIFICATE

Program Overview

The Nonprofit Certificate program is designed for students who are currently working in the nonprofit sector or for those who desire an introductory perspective on the unique issues facing a nonprofit organization. This certificate program consists of 12 courses geared to provide the essential information of nonprofit business. These courses are delivered in a timely manner designed to fit your busy work and family schedules. Students will examine the fundamental principles of nonprofit, the roles and responsibilities of a nonprofit board of directors and the management team, the essential aspects of fundraising, and the fundamentals of the budgeting process.

Nonprofit organizations face new challenges: government funding cutbacks, growing numbers of clients, and the expanding need to acquire and manage financial resources. Nonprofit organizations must find ways to meet these challenges.

Enrolling in this certificate program will provide you with knowledge designed to empower the nonprofit organization with the skills necessary to succeed. For those who work in, or desire to work in, a nonprofit organization or business environment, this is the program for you!

Program Outcomes

- Graduates will examine the fundamental principles of the nonprofit organization, as well as roles and responsibilities of nonprofit board of directors, volunteers, and the management team.
- Graduates will develop practical and managerial skills necessary to plan operational success.
- 3. Graduates will understand financial and accounting terms.
- 4. Graduates will develop the skills of the marketing process.
- 5. Graduates will learn the basics of employment law, compliance and regulatory requirements.
- 6. Graduates will examine the foundational aspects of fundraising and grant writing and how to maximize those opportunities.
- 7. Graduates will develop a successful leadership style.
- 8. Graduates will gain confidence and improve communication skills.
- Graduates will explore the process of negotiating and evaluate negotiation styles.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Advisor

Susan Senger susan.senger@saintpaul.edu 651.846.1519

Part-time/Full-time Options

Some day, evening, Saturday and online class availability. Students may attend full-time or part-time.

Program Requirements

 $\ensuremath{\boxtimes}$ Check off when completed

Course Cr
□ ACCT 2530 Fundamentals of Nonprofit
Accounting
□ BTEC 1445 Business Communications
BUSN 2440 Fundamentals of Nonprofit
Management
BUSN 2441 Fundraising Techniques
□ BUSN 2442 Grant Writing and Research
□ BUSN 2443 Dynamics of Board Relations1
□ BUSN 2444 Volunteer Program Management 1
□ BUSN 2445 Legal Environment of Nonprofits 1
BUSN 2463 Organizational Leadership and
Decision Making
BUSN 2465 Business Ethics
□ BUSN 2471 Strategic Planning
□ BUSN 2472 Business Negotiation Skills

Program Start Dates

Fall, Spring, Summer

Course Sequence

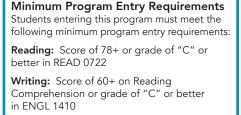
The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

ACCT 2530 Fundamentals of Nonprofit
Accounting4
BTEC 1445 Business Communications3
BUSN 2440 Fundamentals of Nonprofit
Management
BUSN 2441 Fundraising Techniques
BUSN 2442 Grant Writing and Research1
BUSN 2443 Dynamics of Board Relations1
Total Semester Credits
Second Semester

BUSN 2444 Volunteer Program Management1

BUSN 2445 Legal Environment of Nonprofits1
BUSN 2463 Organizational Leadership and
Decision Making
BUSN 2465 Business Ethics
BUSN 2471 Strategic Planning3
BUSN 2472 Business Negotiation Skills3
Total Semester Credits14
Total Program Credits27



Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites. 304C (7156)

Project Management CERTIFICATE

Program Overview

Project management is used throughout business to make sure an organization achieves its objectives. A project management certificate prepares students with the tools, skills, and knowledge necessary to initiate, plan, and implement projects successfully. Project planning topics include various types of business projects with special focus on information technology projects to help provide an overview of project management. Techniques such as work breakdown structures, network diagrams, critical path method, earned value analysis, various financial analysis templates and others are covered in the courses.

Career Opportunities

Employment opportunities are very good for skilled, capable, and dependable business professionals. Employers are looking for business professionals with excellent communication skills, organizational skills, human relation skills and enthusiasm for the job and organization. Graduates may choose to continue their education towards a bachelor's degree or begin work in a variety of settings. Graduates can explore opportunities that match their interests and education in a variety of industries.

Program Outcomes

- 1. Graduates will have the skills, knowledge, and abilities in project management.
- 2. Graduates will have a basic understanding of project planning.
- 3. Graduates will have the skills and knowledge necessary to initiate, plan, and implement projects successfully.

Program Advisor

Kendal Loewen kendal.loewen@saintpaul.edu

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, online and Saturday courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

Course Cr
□ BTEC 1445 Business Communications
□ BUSN 1760 Principles of Finance
□ BUSN 2464 Leading and Coaching Others2
□ BUSN 2472 Business Negotiation Skills
□ BUSN 2473 Project Management3
BSLM 2450 Purchasing Principles
and Applications
□ CSCI 2410 Management Information Systems3

Total Program Credits 21

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

BTEC 1445 Business Communications
Second Semester BUSN 2473 Project Management
and Applications
Total Program Credits 21



Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites. 251C (7152)

Supervision CERTIFICATE

Program Overview

The Supervision Certificate is practical and application oriented; designed for individuals who seek the skills required for entry-level supervisory positions. It is also designed for supervisors and team leaders who are responsible for the work of others and want to upgrade their people, personal, and organizational skills to become a more efficient and effective supervisor. Courses from this certificate apply to the Business Management Associate of Science Degree.

Career Opportunities

Employment opportunities are very good for skilled, capable, and dependable business professionals. Employers are looking for business professionals with excellent communication skills, organizational skills, human relation skills and enthusiasm for the job and organization. Graduates may choose to continue their education towards other awards or begin work in a variety of settings. Graduates can explore opportunities that match their interests and education in a variety of industries.

Program Outcomes

- 1. Graduates will have the skills, knowledge, and abilities in core supervision functions.
- 2. Graduates will have basic understanding of responsibilities needed to be a successful supervisor.
- 3. Graduates will be prepared for supervision employment in the business sector.

Program Advisor

Kelly Olson kelly.olson@saintpaul.edu 651.846.1439

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, Saturday and online courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

Check off when completed

Course Cr
 BUSN 1410 Introduction to Business
□ HMRS 2410 Employee/Labor Relations
Total Program Credits 17

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

BUSN 1410 Introduction to Business3
BUSN 2450 Management Fundamentals3
BUSN 2466 Managing Change and Conflict2
BUSN 2472 Business Negotiation Skills3
HMRS 1400 Human Resource Management
HMRS 2410 Employee/Labor Relations3

Total Program Credits			•	•	•	•	•	•	•	•	•	•	•			•	•	1	17	7	
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Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

254C (7185)

Entrepreneurship AAS DEGREE

Program Overview

Many people dream of owning their own business for financial and professional independence as well as the pride of ownership. A degree in Entrepreneurship can help make that dream become a reality, by providing students with the skills and knowledge necessary to launch a successful business. In this degree program students will learn how to develop, maintain and grow their own business; explore entrepreneurial concepts and processes that apply to both start-up and well-established enterprises, with an innovative focus and an entrepreneurial spirit. Students will analyze how an organization contributes to society and how entrepreneurship and commercial activities affect the environment. They will also explore topics such as market opportunity, product development, intellectual property and commercialization.

Entrepreneurship and small business plays a key role in the U.S. economy by providing jobs to a large segment of the workforce. Completing this degree will help the small business entrepreneur maximize the skills and abilities necessary to do business in our challenging environment.

Career Opportunities

Employment opportunities are excellent for starting your own business.

Program Outcomes

- 1. Graduates will have skills, knowledge and abilities in core business functions, including accounting, marketing and management.
- 2. Graduates will have an understanding of how to start and market an entrepreneur/small business operation.
- Graduates will be prepared to manage, market, and enhance an entrepreneurship/ small business operation.
- 4. Graduates will successfully complete a business plan for their new business.
- 5. Graduates will have critical thinking skills.



The mission of the Business Department at Saint Paul College is to sustain the College mission by providing quality, lifelong business education supported by technology for a diverse, metropolitan student population.

Program Advisor

Kelly Olson kelly.olson@saintpaul.edu 651.846.1439

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, Saturday, and online courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

 $\ensuremath{\boxtimes}$ Check off when completed

Required Business Core

Professional Component

□ ACCT 1411 Principles of Accounting 14
□ BTEC 1445 Business Communications
□ BTEC 1421 Business Information Applications 1 OR
CSCI 2410 Management
Information Systems
□ BUSN 1410 Introduction to Business
□ BUSN 2470 Legal Environment of Business3
Required Business Core

Course Cr
□ BUSN 1440 Marketing Principles
□ BUSN 1480 Business Career Resources1
□ BUSN 2450 Management Fundamentals
BUSN 2455 Essentials of Entrepreneurship &
Small Business Management3
□ BUSN 2460 Entrepreneurship Resources 2
BUSN 2464 Leading and Coaching Others OR
BUSN 2466 Managing Change and Conflict2
□ BUSN 2472 Business Negotiation Skills
□ BUSN 2482 Entrepreneurship Capstone
□ DGIM 1443 Dreamweaver 1
□ HMRS 2410 Employee/Labor Relations
\Box Elective credits with advisor approval
Subtotal

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

Goal 1: Communication7
ENGL 1711 Composition 1 (required) – 4 cr
SPCH XXXX (required) (Goal 1 only) – 3 cr
□ Goal 3 or Goal 4
Goal 3: Natural Sciences OR
Goal 4: Mathematical/Logical Reasoning
Goal 5: History, Social Science, and

Program Start Dates

Fall, Spring, Summer

Course Sequence

The course sequence listed on the back of this guide is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Entrepreneurship AAS

Cr

Cr

BS Applied Organizational Studies Minnesota State University-Mankato

See back of guide for Course Sequence



Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites 252A (7119)

Entrepreneurship AAS DEGREE (continued)

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

ACCT 1411 Principles of Accounting 14
BTEC 1421 Business Info Applications 1 OR
CSCI 2410 Mgmt Info Systems3
BTEC 1445 Business Communications3
BUSN 1410 Introduction to Business3
ENGL 1711 Composition I4
Total Semester Credits

Second Semester

BUSN 1440 Marketing Principles
BUSN 1480 Business Career Resources1
BUSN 2450 Management Fundamentals
BUSN 2470 Legal Environment of Business3
SPCH 17XX Any Goal 1 Speech Course
Total Semester Credits

Third Semester

BUSN 2455 Essentials of Entrepreneurship & Small
Business Management3
BUSN 2460 Entrepreneurship Resources2
BUSN 2464 Leading and Coaching Others OR
BUSN 2466 Managing Change
and Conflict
BUSN 2472 Business Negotiation Skills
ECON 1720 Macroeconomics OR
ECON 1730 Microeconomics
Total Semester Credits

Fourth Semester

BUSN 2482 Entrepreneurship Capstone
DGIM 1443 Dreamweaver 1
HMRS 2410 Employee/Labor Relations
Elective credits with advisor approval
Mn Transfer Curriculum
Total Semester Credits

Total Program Credits	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.60	0
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Entrepreneurship CERTIFICATE

Program Overview

Many people dream of owning their own business for financial and professional independence as well as the pride of ownership. A certificate in Entrepreneurship can help make that dream become a reality, by providing students with the skills and knowledge necessary to launch a successful business. In this certificate program students will learn how to develop, maintain and grow their own business; explore entrepreneurial concepts and processes that apply to both start-up and well-established enterprises, with an innovative focus and an entrepreneurial spirit. Students will analyze how an organization contributes to society and how entrepreneurship and commercial activities affect the environment. They will also explore topics such as market opportunity, product development, intellectual property and commercialization.

Entrepreneurship and small business plays a key role in the U.S. economy by providing jobs to a large segment of the workforce. Completing this certificate will help the small business entrepreneur maximize the skills and abilities necessary to do business in our challenging environment.

Career Opportunities

Employment opportunities are excellent for starting your own business.

Program Outcomes

- 1. Graduates will have skills, knowledge and abilities in core business functions, including accounting, marketing and management.
- 2. Graduates will have an understanding of how to start and market an entrepreneur/small business operation.
- Graduates will be prepared to manage, market, and enhance an entrepreneurship/ small business operation.
- 4. Graduates will successfully complete a business plan for their new business.

Program Advisor

Kelly Olson kelly.olson@saintpaul.edu 651.846.1439

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, Saturday, and online courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

☑ Check off when completed

Course Cr
□ BUSN 2455 Essentials of Entrepreneurship &
Small Business Management3
□ BUSN 2460 Entrepreneurship Resources
□ BUSN 2472 Business Negotiation Skills
□ BUSN 2482 Entrepreneurship Capstone
□ DGIM 1443 Dreamweaver 1
□ HMRS 2410 Employee/Labor Relations

Total Program Credits16

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

BUSN 2455 Essentials of Entrepreneurship &
Small Business Management3
BUSN 2460 Entrepreneurship Resources2
BUSN 2472 Business Negotiation Skills3
BUSN 2482 Entrepreneurship Capstone3
DGIM 1443 Dreamweaver 1
HMRS 2410 Employee/Labor Relations3

Total Program Credits16

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

253C (7171)

Music Business AAS DEGREE

Program Overview

The Music Business AAS Degree is an innovative curriculum designed to prepare students for today's music industry. The degree has a business entrepreneur emphasis and is designed for both the performing musician and the business student. The program combines a flexible curriculum with an emphasis in business and marketing, along with music industry related course and experiences.

Career Opportunities

Typical career paths include musician, manager or agent, songwriter, and publisher. Since the industry has radically changed over the last decade and has largely become a field in which Do-It-Yourself skills have become essential survival tools, much of the curriculum is focused on the self-sufficiency of the student, and the ability to access all available means of production and promotion with superb technical skills, and relevant industry knowledge. The entertainment industry is one of the largest industries worldwide. Next to the film industry, the music industry represents the largest component of the entertainment industry. Publishing, marketing, musical instrument sales, record companies, copyrights, management, music production, evolving Internet opportunities and other components of the music industry are explored in the new program. Wherever music is created or heard, there exists employment opportunities.

Program Outcomes

- Graduates will have knowledge and skills in music production, internet opportunities and marketing.
- 2. Graduates will have knowledge and skills in digital sound and video.
- Graduates will be prepared for positions in marketing, management, music production, web site design, and blogging techniques.
- Graduates will have knowledge and skills to provide foresight of potential opportunities in the management of the music business.



The mission of the Business Department at Saint Paul College is to sustain the College mission by providing quality, lifelong business education supported by technology for a diverse, metropolitan student population.

Program Advisor

Darren Pearson darren.pearson@saintpaul.edu

Part-time/Full-time Options

Some day, evening, and Saturday class availability. Students may attend full-time or part-time.

Recommended Equipment

Digital Camera, USB Drive, Adobe Software

Program Requirements

☑ Check off when completed

Required Business Core

Professional Component

Professional Component
 ACCT 1411 Principles of Accounting 14 BTEC 1445 Business Communications3 BTEC 1421 Business Information Applications 1 OR CSCI 2410 Management Information Systems3 BUSN 1410 Introduction to Business3 BUSN 2470 Legal Environment of Business3 Required Business Core16
Course Cr
 BUSN 1770 The Business of Music
General Education/MnTC Requirements Cr
Must complete at least 16 credits from the Minnesota Transfer Curriculum-MnTC Goal 1: Communication

Total Program Credits60

Program Start Dates

Fall, Spring

Cr

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester	1
ACCT 1411 Principles of Accounting 1 BTEC 1421 Business Info Applications 1 OR	4
CSCI 2410 Mgmt Info Systems	З
BTEC 1445 Business Communications	
BUSN 1410 Introduction to Business	
ENGL 1711 Composition 1	
Total Semester Credits.	
Second Semester	2
BUSN 1770 The Business of Music	
BUSN 1780 Business Trends in Music	
Small Business Management	3
BUSN 2460 Entrepreneurship Resources	
MUSC 1740 Music Appreciation OR	•••
MUSC 1750 Jazz history	3
Total Semester Credits.	
	•••
	2
BUSN 2470 Legal Environment of Business	
DGIM 1443 Dreamweaver 1	
DGIM 1444 Dreamweaver 2	
DGIM 1540 Biogging Applications DGIM 2586 Digital Sound	
DGIM 2586 Digital Sound DGIM 2587 Digital Video 1	
SPCH 17XX Any Goal 1 Speech Course	
Total Semester Credits	
	• • •
Fourth Semester	2
BUSN 2482 Entrepreneurship Capstone	
DGIM 2588 Digital Video 2	
Any 2 Credit DGIM Elective	∠
ECON 1720 Macroeconomics OR ECON 1730 Microeconomics	3
Total Semester Credits	
Total Program Credits	. 60
Minimum Program Entry Requirements	
WINIMUM Frogram Linuy Requirements	·
Students entering this program must meet the	
Students entering this program must meet the following minimum program entry requirement	s:
Students entering this program must meet the following minimum program entry requirement Reading: Score of 78+ or grade of "C" or	s:
Students entering this program must meet the following minimum program entry requirement	s:
Students entering this program must meet the following minimum program entry requirement Reading: Score of 78+ or grade of "C" or better in READ 0722	s:
Students entering this program must meet the following minimum program entry requirement Reading: Score of 78+ or grade of "C" or better in READ 0722 Writing: Score of 60+ on Reading	s:
Students entering this program must meet the following minimum program entry requirement Reading: Score of 78+ or grade of "C" or better in READ 0722 Writing: Score of 60+ on Reading Comprehension or grade of "C" or better	s:
Students entering this program must meet the following minimum program entry requirement Reading: Score of 78+ or grade of "C" or better in READ 0722 Writing: Score of 60+ on Reading	s:
Students entering this program must meet the following minimum program entry requirement Reading: Score of 78+ or grade of "C" or better in READ 0722 Writing: Score of 60+ on Reading Comprehension or grade of "C" or better	s:
Students entering this program must meet the following minimum program entry requirement Reading: Score of 78+ or grade of "C" or better in READ 0722 Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410	s:
Students entering this program must meet the following minimum program entry requirement Reading: Score of 78+ or grade of "C" or better in READ 0722 Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410 Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742	s:
Students entering this program must meet the following minimum program entry requirement Reading: Score of 78+ or grade of "C" or better in READ 0722 Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410 Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742 Assessment Results and Prerequisites:	s:
Students entering this program must meet the following minimum program entry requirement Reading: Score of 78+ or grade of "C" or better in READ 0722 Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410 Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742	s:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites. 335A (7182)

Finance CERTIFICATE

Program Overview

The Finance Certificate program is designed for students who have a desire to learn or enhance specific finance skills. These skills include summarizing and analyzing specific financial data, personal finance and money and banking. The graduate will help prepare spreadsheet analysis, database entries and provide other application software support.

This program is targeted at accounting and business students who have an interest in finance and would like to add a certificate in finance to their resume to enhance their career path and potential. Accounting students pursuing an AAS degree from Saint Paul College can obtain this Certificate by taking three additional courses. This certificate program covers the fundamental areas of family and personal financial planning, basic financial theory and issues related to banking and the financial industry. Basic financial theory includes the time value of money concepts and the theory of pricing various types of financial instruments.

Business managers in all different roles face financial challenges in today's complex business environment. Enrolling in this certificate program will give students the financial tools they need to become better rounded financial managers and also will allow professionals in any field to improve their performance by understanding the financial functions within their area and company.

Excellent reading skills and a combination of interest and ability to concentrate on detail, an analytical mind, good judgment and absolute integrity are necessary for success in the field of finance.

Program Outcomes

- Graduates will have a self-awareness of business and personal finance theory and learn how to apply this theory to real-world personal and business financial issues.
- 2. Graduates will be equipped with a solid foundation in finance theory.
- 3. Graduates will be able to apply finance theory to their personal financial situation.
- 4. Graduates will be able to apply finance theory to financial decisions within the banking and financial industries.
- Graduates will develop characteristics and finance intelligence that will allow them to make prudent financial decisions in whatever function they occupy within an organization.
- 6. Graduates will have a working knowledge of finance consistent with ethical, legal and regulatory expectations.
- 7. Graduates will have a competitive advantage in job and career development.

Program Advisors

Kendal Loewen kendal.loewen@saintpaul.edu Jim O'Halloran james.o'halloran@saintpaul.edu

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

Course C	Cr
ACCT 1411 Principles of Accounting 1	.4
ACCT 1412 Principles of Accounting 2	.4
ACCT 2420 Managerial Accounting	. 4
ACCT 2540 Financial Modeling for Spreadsheets	. 4
BUSN 1760 Principles of Finance	. 4
BUSN 1762 Money and Banking	. 4
BUSN 2459 Family and Personal	
Financial Planning	.4

Program Start Dates

Fall, Spring, Summer

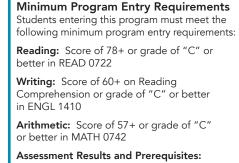
Course Sequence

The following sequence is recommended; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

ACCT 1411 Principles of Accounting 14 BUSN 1760 Principles of Finance4 Total Semester Credits
Second Semester
ACCT 1412 Principles of Accounting 24
BUSN 1762 Money and Banking4
Total Semester Credits
Third Semester
ACCT 2420 Managerial Accounting4
ACCT 2540 Financial Modeling for Spreadsheets4
BUSN 2459 Family and Personal
Financial Planning
Total Semester Credits

Total Program Credits		•		•				•			•							.2	28	ĉ
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Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites. 3620

Global Trade Specialist AAS DEGREE

Program Overview

The global trade area is especially suited for persons who are self-reliant, imaginative, adaptable, and who possess an interest in working with people from other cultures.

Career Opportunities

More than four million people in the United States work in jobs related to global trade. In Minnesota, many businesses engage in global trade, with a dramatic increase in trade activity expected within five years.

A career in global trade offers you the opportunity to work in the global marketplace. The Global Trade Specialist Program will provide you with knowledge and skills that will prepare you for employment in the export and import departments of businesses. You will be working with people from foreign countries, handling foreign orders, filling overseas orders, handling customer matters and determining tariff rates for the entry of foreign goods through U.S. Customs. Job titles include: Global Sales/Marketing Assistant, Global Marketing Communication Coordinator, Global Documentation Specialist, Global Customer Service Coordinator, Export-Import Coordinator, Global Banker and Global Transportation Coordinator.

This program also provides an excellent foundation for individuals wanting to be entrepreneurs in the import/export business. The import/export field is growing! You can grow with it.

Program Outcomes

- Graduates will have knowledge and skills in domestic and global transportation management and logistics.
- 2. Graduates will have knowledge of U.S. Custom regulations and classifications.
- 3. Graduates will demonstrate the ability to successfully perform as Global Trade Specialists via internships.
- 4. Graduates will be prepared for employment as Global Trade Specialists.
- 5. Graduates will have knowledge and skills in customer service.
- 6. Graduates will have critical thinking skills.

Program Advisor

Susan Senger susan.senger@saintpaul.edu 651.846.1519

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, Saturday and online courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

 $\ensuremath{\boxtimes}$ Check off when completed

Required Business Core
Professional Component
□ ACCT 1411 Principles of Accounting 14
□ BTEC 1421 Business Information Applications 1 OR
CSCI 2410 Management Information Systems 3
□ BTEC 1445 Business Communications
□ BUSN 1410 Introduction to Business
□ BUSN 2470 Legal Environment of Business 3

Course

BSLM 1410 Transportation Management. 3 BSLM 1510 Distribution Management. 3 BSLM 2420 Supply Chain Management. 4 BUSN 1480 Business Career Resources 1 INTL 1400 Introduction to International Business .3 INTL 1400 Introduction to International Business .3 INTL 1410 International Communications and Cultural Awareness. .3 INTL 1512 Export Shipping and Compliance. .3 INTL 2420 U.S. Customs and Importing. .3 INTL 2530 International Marketing .3 Business Electives .2 Select 2 credits with advisor approval .2
Select 2 credits with advisor approval Subtotal28

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

- □ Goal 1: Communication7 ENGL 1711 Composition (required) 1 – 4 cr SPCH XXXX (required) (Goal 1 only) – 3 cr
- Goal 3 or Goal 4.....3 Goal 3: Natural Sciences OR



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Information is subject to change. This Program Requirements Guide is not a contract.

Program Start Dates

Fall, Spring, Summer

Transfer Opportunities

Saint Paul College has transfer articulation agreements between the following program and post-secondary institutions for the baccalaureate degree programs listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Global Trade Specialist AAS

- BAS International Commerce Metropolitan State University
- BAS Organizational Administration Metropolitan State University

Course Sequence

Cr

Cr

The course sequence listed on the back of this guide is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

See back of guide for Course Sequence



following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

333A (7175)

Global Trade Specialist AAS DEGREE (continued)

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

ACCT 1411 Principles of Accounting 14
BTEC 1421 Business Info Applications 1 OR
CSCI 2410 Mgmt Info Systems3
BTEC 1445 Business Communications3
BUSN 1410 Introduction to Business3
ENGL 1711 Composition 14
Total Semester Credits17

Second Semester

BSLM 1410 Transportation Management
BSLM 1510 Distribution Management3
BSLM 2420 Supply Chain Management4
INTL 1400 Introduction to International Business3
SPCH 17XX Any Goal 1 Speech Course
Total Semester Credits

Third Semester

BUSN 1480 Business Career Resources 1 BUSN 2470 Legal Environment of Business 3 INTL 1410 International Communications and Cultural Awareness 3 INTL 1512 Export Shipping and Compliance 3 ECON 1720 Macroeconomics OR ECON 1730 Microeconomics 3 Total Semester Credits 13 Fourth Semester 1 INTL 2530 International Marketing 3 Business Elective 2 Mn Transfer Curriculum 6	
INTL 1410 International Communications and Cultural Awareness 3 INTL 1512 Export Shipping and Compliance 3 ECON 1720 Macroeconomics OR ECON 1730 Microeconomics 3 Total Semester Credits 13 Fourth Semester 13 INTL 2420 U.S. Customs and Importing 3 INTL 2530 International Marketing 3 Business Elective 2 Mn Transfer Curriculum 6	BUSN 1480 Business Career Resources1
Cultural Awareness 3 INTL 1512 Export Shipping and Compliance 3 ECON 1720 Macroeconomics OR 2 ECON 1730 Microeconomics 3 Total Semester Credits 13 Fourth Semester 13 INTL 2420 U.S. Customs and Importing 3 INTL 2530 International Marketing 3 Business Elective 2 Mn Transfer Curriculum 6	BUSN 2470 Legal Environment of Business3
INTL 1512 Export Shipping and Compliance	INTL 1410 International Communications and
ECON 1720 Macroeconomics OR ECON 1730 Microeconomics Total Semester Credits. INTL 2420 U.S. Customs and Importing INTL 2530 International Marketing Business Elective 2 Mn Transfer Curriculum	Cultural Awareness
ECON 1730 Microeconomics .3 Total Semester Credits. 13 Fourth Semester	INTL 1512 Export Shipping and Compliance 3
Total Semester Credits. 13 Fourth Semester 11 INTL 2420 U.S. Customs and Importing. 3 INTL 2530 International Marketing. 3 Business Elective 2 Mn Transfer Curriculum. 6	ECON 1720 Macroeconomics OR
Fourth Semester INTL 2420 U.S. Customs and Importing	ECON 1730 Microeconomics
INTL 2420 U.S. Customs and Importing 3 INTL 2530 International Marketing 3 Business Elective 2 Mn Transfer Curriculum 6	Total Semester Credits
INTL 2530 International Marketing	Fourth Semester
Business Elective	INTL 2420 U.S. Customs and Importing
Mn Transfer Curriculum6	INTL 2530 International Marketing
	Business Elective
	Mn Transfer Curriculum6
Total Semester Credits	Total Semester Credits14

Total Program Credits60

Global Trade Professional CERTIFICATE

Program Overview

This certificate is transferable to the Global Trade Specialist AAS program.

This certificate program is designed for an individual who is currently working in the Global Trade/Logistics field, or has a prior degree. It is not for entry level to the global trade field, but is designed as an add-on certificate to enhance and build on prior knowledge.

Career Opportunities

More than four million people in the United States work in jobs related to global trade. In Minnesota, many businesses engage in global trade, with a dramatic increase in trade activity expected within five years.

A career in global trade offers you the opportunity to work in the global marketplace. The Global Trade Specialist Program will provide you with knowledge and skills that will prepare you for employment in the export and import departments of businesses. You will be working with people from foreign countries, handling foreign orders, filling overseas orders, handling customer matters and determining tariff rates for the entry of foreign goods through U.S. Customs. Job titles include: Global Sales/Marketing Assistant, Global Marketing Communication Coordinator, Global Documentation Specialist, Global Customer Service Coordinator, Export-Import Coordinator, Global Banker and Global Transportation Coordinator.

This program also provides an excellent foundation for individuals wanting to be entrepreneurs in the import/export business. The import/export field is growing! You can grow with it.

Program Outcomes

- Graduates will have knowledge and skills in domestic and global transportation management and logistics.
- 2. Graduates will have knowledge of U.S. Custom regulations and classifications.
- Graduates will demonstrate the ability to successfully perform as Global Trade Specialists via internships.
- 4. Graduates will be prepared for employment as Global Trade Specialists.
- 5. Graduates will have knowledge and skills in customer service.

Program Advisor

Susan Senger susan.senger@saintpaul.edu 651.846.1519

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, Saturday and online courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Admission Requirements

Applicants are required to have a high school diploma or equivalent.

The global trade area is especially suited for persons who are self reliant, imaginative, adaptable, and who possess an interest in working with people from other cultures.

Program Requirements

 \blacksquare Check off when completed

This certificate program is designed for an individual who is currently working in the International Trade/Logistics field, or has a prior degree. It is not for entry level to the international trade field, but is designed as an add-on certificate to enhance and build on prior knowledge.

Program Advisor approval is required.

Course Cr
□ BSLM 2420 Supply Chain Management4
□ INTL 1410 International Communication and
Cultural Awareness
□ INTL 1512 Export Shipping and Compliance3
□ INTL 2420 U. S. Customs and Importing
□ INTL 2530 International Marketing

Total Program Credits 16

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

BSLM 2420 Supply Chain Management4 INTL 1410 International Communication and
Cultural Awareness
Total Semester Credits7
Second Semester
INTL 1512 Export Shipping and Compliance3
INTL 2420 U. S. Customs and Importing
INTL 2530 International Marketing3
Total Semester Credits

Total Program Credits 16

Minimum Program Entry Requirements Advisor approval required.

Contact Faculty Advisor, Susan Senger, at 651.846.1519 or susan.senger@saintpaul.edu

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

333C (7174)

Hospitality Management AAS DEGREE

Program Overview

The Hospitality Management curriculum focuses on the management of today's exciting hospitality and entertainment industries. Students will receive a solid foundation of business practices related to this growing service industry. Courses will examine organizations in lodging, tourism, sports, entertainment, food and beverage operations.

Career Opportunities

According to Hospitality Minnesota, a Roseville based trade association, the industry employs more than 127,000 people and pays \$3.7 billion in wages each year making it the state's secondlargest industry.

There are a wide variety of employment opportunities including hotel/lodging operations, restaurant and catering management, travel and tourism, sports, recreation and facilities management, gaming and casino operations, meeting, convention and special event management.

Program Outcomes

- 1. Graduates will understand broad hospitality, food and entertainment concepts.
- 2. Graduates will have knowledge of the hotel, travel and tourism industry.
- 3. Graduates will develop strong customer service, human relations and communications skills.
- 4. Graduates will demonstrate problem-solving skills and integrate new ways of thinking and learning.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Hospitality Management AAS ΒA

Individualized Studies Metropolitan State University

Program Advisor

Craig Maus craig.maus@saintpaul.edu

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

Required Business Core	Cr
Professional Component	
□ ACCT 1411 Principles of Accounting 1	.4
□ BTEC 1421 Business Information Applications 1 O	R
CSCI 2410 Management	
Information Systems	.3
□ BTEC 1445 Business Communications	.3

□ BUSN 2470 Legal Environment of Business 3

Course

□ BUSN 1440 Marketing Principles
BUSN 1441 Consumer Behavior
□ BUSN 1446 Sales and Account Management3
□ BUSN 1480 Business Career Resources
□ BUSN 2450 Management Fundamentals
□ BUSN 2472 Business Negotiation Skills
□ HSPM 1410 Introduction to Hospitality
Management
□ HSPM 1440 Event Management and Planning3
□ HSPM 2420 Hotel and Lodging Operations3
□ HSPM 2440 Hospitality Marketing and Sales
Subtotal

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area Goal 1: Communication7

- ENGL 1711 Composition 1 (required) 4 cr SPCH XXXX (required) (Goal 1 only) - 3 cr
- □ Goal 3 or Goal 4.....3 Goal 3: Natural Sciences OR Goal 4: Mathematical/Logical Reasoning

□ Goal 5: History, Social Science, and ECON 1720 Macroeconomics (required) - 3 cr OR ECON 1730 Microeconomics (required) – 3 cr

Total Program Credits60

Program Start Dates Fall, Spring

Course Sequence

The course sequence listed on the back of this guide is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

The following course are not offered every semester.

Fall Semester Only

The following courses are offered fall semester only. HSPM 1410 Introduction to Hospitality Management HSPM 2440 Hospitality Marketing and Sales **BUSN 1441 Consumer Behavior**

Spring Semester Only

Cr

Cr

The following courses are offered spring semester only. HSPM 1440 Event Management and Planning HSPM 2420 Hotel and Lodging Operations BUSN 1446 Sales and Account Management

All other courses are offered both fall and spring semester.

See back of guide for Course Sequence



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Information is subject to change. This Program Requirements Guide is not a contract.

Minimum Program Entry Requirements Students entering this program must meet the

following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

300A (7130)

Hospitality Management AAS DEGREE (continued)

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

ACCT 1411 Principles of Accounting 14
BTEC 1421 Business Info Applications 1 OR
CSCI 2410 Mgmt Info Systems3
HSPM 1410 Introduction to Hospitality Management .3
BUSN 1410 Introduction to Business3
ENGL 1711 Composition 14
Total Semester Credits
Second Semester
BUSN 1440 Marketing Principles
BUSN 1441 Consumer Behavior 3

BUSN 1441 Consumer Behavior
BUSN 1446 Sales and Account Management3
BUSN 2450 Management Fundamentals3
SPCH 17XX Any Goal 1 Speech Course
Total Semester Credits

Third Semester

BTEC 1445 Business Communications3
BUSN 1480 Business Career Resources1
BUSN 2470 Legal Environment of Business3
BUSN 2472 Business Negotiation Skills
ECON 1720 Macroeconomics OR
ECON 1730 Microeconomics
Total Semester Credits
Fourth Somostor

Fourth Semester

HSPM 1440 Event Management and Planning 3
HSPM 2420 Hotel and Lodging Operations3
HSPM 2440 Hospitality Marketing and Sales3
Mn Transfer Curriculum
Total Semester Credits

Restaurant Management CERTIFICATE

Program Overview

The Restaurant Management curriculum introduces students to the management of today's exciting hospitality and entertainment industries with a focus on restaurant management. Students will receive a solid foundation in business practice related to the growing food and beverage industry. Courses will examine areas of food service operations including supervision, management and labor, and cost control.

Career Opportunities

According to Hospitality Minnesota, a Rosevillebased trade association, the industry employs more than 127,000 people and pays \$3.7 billion in wages each year, making it the state's second-largest industry. There are a wide variety of employment opportunities including hotel/ lodging operations, restaurant and catering management, travel and tourism, sports, recreation and facilities management, gaming and casino operations, meeting, convention and special event management.

Program Outcomes

- 1. Graduates will have knowledge of the hotel, travel and tourism industry.
- 2. Graduates will demonstrate knowledge and skills in restaurant operations.

Program Advisor

Craig Maus craig.maus@saintpaul.edu 651.846.1531

Part-time/Full-time Options

These programs can be completed by using a combination of day, evening, and Web-enhanced courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

☑ Check off when completed

Course Cr
□ BUSN 2450 Management Fundamentals
HSPM 1410 Introduction to Hospitality
Management
□ CULA 1470 Food Service Sanitation2
CULA 1540 Food Service Supervisory
Management2
□ CULA 1560 Food/Beverage/Labor Cost Control3

Total Program Credits13

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

BUSN 2450 Management Fundamentals3
HSPM 1410 Introduction to Hospitality
Management
CULA 1470 Food Service Sanitation2
CULA 1540 Food Service Supervisory
Management
CULA 1560 Food/Beverage/Labor Cost Control3

Total Program Credits13

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements in addition to having acquired previous technical computer skills:

Reading: Score of 78+ or grade of "C or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

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Information is subject to change. This Program Requirements Guide is not a contract. 2014 – 2015

Event and Meeting Management CERTIFICATE

Program Overview

The Event and Meeting Management curriculum focuses on the management of special events planning, organizing activities and timelines, operational effectiveness and customer satisfaction. Students will receive a solid foundation of business practices related to this growing service industry. Courses will examine organizations in lodging, tourism, and entertainment, food and beverage operations. This certificate is intended for those seeking to expand their career paths with the skills necessary to plan efficient and effective events and meetings.

Career Opportunities

According to Hospitality Minnesota, a Rosevillebased trade association, the industry employs more than 127,000 people and pays \$3.7 billion in wages each year, making it the state's second-largest industry. There are a wide variety of employment opportunities including hotel/ lodging operations, restaurant and catering management, travel and tourism, sports, recreation and facilities management, gaming and casino operations, meeting, convention and special event management.

Program Outcomes

- 1. Graduates will have knowledge of the meeting and special event industry.
- 2. Graduates will develop customer service, human relations and communications skills.
- 3. Graduates will have knowledge and skills to plan, manage and promote meeting and special events.

Program Advisor

Craig Maus craig.maus@saintpaul.edu 651.846.1531

Part-time/Full-time Options

These programs can be completed by using a combination of day, evening, and Web-enhanced courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

Course Cr BUSN 1440 Marketing Principles 3 BUSN 2450 Management Fundamentals 3 BUSN 2455 Essentials of Entrepreneurship & Small Business Management 3 HSPM 1410 Introduction to Hospitality Management 3 HSPM 1440 Event Management and Planning 3 HSPM 2440 Hospitality Marketing and Sales 3

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

BUSN 1440 Marketing Principles
HSPM 1410 Introduction to Hospitality Management .3
HSPM 1440 Event Management and Planning3
Total Semester Credits9
Second Semester
BUSN 2450 Management Fundamentals3
BUSN 2455 Essentials of Entrepreneurship &
Small Business Management3
HSPM 2440 Hospitality Marketing and Sales3
Total Semester Credits
Total Program Credits18

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements in addition to having acquired previous technical computer skills:

Reading: Score of 78+ or grade of "C or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

332C (7173)

Human Resources AAS DEGREE

Program Overview

The Human Resources Associate in Applied Science Degree is intended for students who desire immediate employment upon graduation, or who plan to transfer to another institution of higher education.

The human resource professional plays a strategic role in the success of the organization. A human resource professional needs to be competent in human resource knowledge, able to facilitate change, have personal credibility which includes trust and confidentiality and the understanding of how a business operates. Specific duties may involve facilitating employee communication, managing human resource record keeping, administering employee compensation and benefit plans, recruiting, hiring and orienting new employees, writing policies and applying federal, state and local employment laws and regulations.

Qualifications include excellent communication and human relation skills, computer skills, flexibility and the ability to work under pressure.

Career Opportunities

Employment opportunities are excellent for skilled, capable, and dependable Human Resource program graduates.

Human Resource program graduates may be employed in positions such as: Human Resource Representative, Human Resource Coordinator, HR Assistant, Human Resource Specialist, Human Resource Generalist, Compensation or Benefits Specialist, Staffing Coordinator, Employment Specialist, Payroll Specialist, or Training and Development Assistant.

Program Outcomes

- Graduates will have the skills, knowledge and abilities in core human resource functions (e.g., HRIS, record keeping, compensation/benefits administration and staffing procedures).
- 2. Graduates will have the skills, knowledge, and abilities to identify and deal with employee relation issues and to communicate effectively in a work environment.
- 3. Graduates will have the skills, knowledge, and abilities in applicable federal, state, and local employment regulations and a working knowledge of basic employment laws.
- 4. Graduates will be prepared for employment in the field of human resources (in a variety of positions).
- 5. Graduates will have successfully mastered the general education requirements for work and life roles.



The mission of the Business Department at Saint Paul College is to sustain the College mission by providing quality, lifelong business education supported by technology for a diverse, metropolitan student population.

Program Advisor

Kelly Olson, SPHR kelly.olson@saintpaul.edu 651.846.1439

Approved Provider of Courses for Recertification

The Human Resource Certification Institute has recognized Saint Paul College as an approved provider of educational courses for recertification of the PHR or SPHR certification.

The Human Resources Program at Saint Paul College is the only program of its kind in the Metro Area.

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, and Saturday courses. Part time and full time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

 $\ensuremath{\boxtimes}$ Check off when completed

Required Business Core

	_
Professional Component	
□ ACCT 1411 Principles of Accounting 1	.4
□ BTEC 1421 Business Information Applications 1 OF	२
CSCI 2410 Management	
Information Systems	2
□ BTEC 1445 Business Communications	
□ BUSN 1410 Introduction to Business	
□ BUSN 2470 Legal Environment of Business	
Required Business Core	16
Course	Cr
	_
BUSN 1480 Business Career Resources	
□ BUSN 2450 Management Fundamentals	
□ BUSN 2464 Leading and Coaching Others	
□ BUSN 2466 Managing Change and Conflict	.2
□ HMRS 1400 Human Resource Management	
□ HMRS 1490 Talent Management	
□ HMRS 1510 HR Information Systems & Records	
□ HMRS 1520 Compensation &	
	2
Benefits Administration	
□ HMRS 2410 Employee/Labor Relations	
□ HMRS 2420 Employment Law & HR Policies	
Subtotal	26
General Education/MnTC Requirements	Cr
Refer to the Minnesota Transfer Curriculum Course Li	ct
for each Goal Area	31
	7
	. /
ENGL 1711 Composition 1 (required) – 4 cr	
SPCH XXXX (required) (Goal 1 only) – 3 cr	
□ Goal 3 or Goal 4	.3
Goal 3: Natural Sciences OR	
Goal 4: Mathematical/Logical Reasoning	
□ Goal 5: History, Social Science, and	
Behavioral Sciences	З
ECON 1720 Macroeconomics (required) – 3 cr OR	
ECON 1730 Microeconomics (required) – 3 cr	~
□ Goal 6: Humanities and Fine Arts	
□ Goals 1-10 of the Minnesota Transfer Curriculum .	.2

Total Program Credits60

Program Start Dates

Fall, Spring, Summer

Transfer Opportunities

Saint Paul College has transfer articulation agreements between the following program and post-secondary institutions for the baccalaureate degree programs listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Human Resources AAS

- BS Applied Organizational Studies Minnesota State University, Mankato
- BS Human Resource Management Saint Mary's University-Twin Cities Campus

Course Sequence

Cr

The course sequence listed on the back side of this guide is recommended for a full-stime student; however, this sequence is not required. Contact Program Advisor with questions.

The following courses are not offered every semester:

HMRS 1490 Talent Management

HMRS 1510 HR Information Systems & Records HMRS 1520 Compensation & Benefits Administration HMRS 2410 Employee/Labor Relations HMRS 2420 Employment Law & HR Policies

See back of guide for Course Sequence

Information is subject to change. This Program Requirements Guide is not a contract.

Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

015A(7027)

Human Resources AAS DEGREE (continued)

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

ACCT 1411 Principles of Accounting 14
BTEC 1421 Business Info Applications 1 OR
CSCI 2410 Mgmt Info Systems3
BTEC 1445 Business Communications
BUSN 1410 Introduction to Business
ENGL 1711 Composition 14
Total Semester Credits

Second Semester

BUSN 2450 Management Fundamentals
BUSN 2464 Leading and Coaching Others2
HMRS 1400 Human Resource Management
HMRS 1490 Talent Management3
SPCH 17XX Any Goal 1 Speech Course
Total Semester Credits

Third Semester

HMRS 1510 HR Information Systems & Records3
HMRS 1520 Compensation &
Benefits Administration
BUSN 1480 Business Career Resources1
BUSN 2466 Managing Change and Conflict 2
BUSN 2470 Legal Environment of Business
ECON 1720 Macroeconomics OR
ECON 1730 Microeconomics
Total Semester Credits
Fourth Semester

Fourth Semester

HMRS 2410 Employee/Labor Relations	3
HMRS 2420 Employment Law & HR Policies	3
Mn Transfer Curriculum	8
Total Semester Credits	4

Total Program Credits60

Program Requirements Guide

Human Resources Specialist CERTIFICATE

Program Overview

This program is designed for an individual who desires to enter the Human Resources field with a general grounding in Human Resources within a short period of time. The HR Specialist certificate is for an individual who has a background in computer and office skills. The certificate program is transferable to the Human Resources AAS program.

Career Opportunities

Employment opportunities are excellent for skilled, capable, and dependable Human Resource program graduates.

Human Resource program graduates may be employed in positions such as: Human Resource Representative, Human Resource Coordinator, HR Assistant, Human Resource Specialist, Human Resource Generalist, Compensation or Benefits Specialist, Staffing Coordinator, Employment Specialist, Payroll Specialist, or Training and Development Assistant.

Program Outcomes

- Graduates will have the skills, knowledge, and abilities in core human resource functions (e.g., HRIS, Record Keeping, Compensation/ Benefits Administration, and staffing procedures).
- 2. Graduates will have the skills, knowledge, and abilities to identify and deal with employee relation issues and to communicate effectively in a work environment.
- 3. Graduates will have the skills, knowledge, and abilities in applicable federal, state, and local employment regulations and a working knowledge of basic employment laws.
- 4. Graduates will be prepared for employment in the field of human resources (in a variety of positions).
- 5. Graduates will have successfully mastered the general education requirements for work and life roles.

Program Advisor

Kelly Olson, SPHR kelly.olson@saintpaul.edu 651.846.1439

Approved Provider of Courses for Recertification

The Human Resource Certification Institute has recognized Saint Paul College as an approved provider of educational courses for recertification of the PHR or SPHR certification. The Human Resource Program at Saint Paul College is the only program of its kind in the Metro Area.

Additional Application Requirements Interested applicants should submit transcripts from all colleges previously attended as part of the application process.

Program Requirements

☑ Check off when completed

Course Cr □ BUSN 2464 Leading and Coaching Others2 □ BUSN 2466 Managing Change and Conflict2 □ HMRS 1400 Human Resources Management3 □ HMRS 1510 HR Information Systems & Records ...3 □ HMRS 2420 Employment Law & HR Policies 3 Choose 3 credits from the following: BUSN 2463 Organizational Leadership and Decision Making 3 BUSN 2465 Business Ethics...... 3 □ BUSN 2471 Strategic Planning 3 □ BUSN 2472 Business Negotiation Skills 3 BUSN XXXX Business Management □ HMRS 2591 Human Resources Internship...3 □ General Education Requirements3 Choose a SPCH course, 1000 level or higher, OR ENGL 1711 or higher

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

BUSN 1410 Introduction to Business
BUSN 1480 Business Career Resources1
HMRS 1400 Human Resources Management3
HMRS 1490 Talent Management
HMRS 1510 HR Information Systems & Records3
SPCH XXXX or ENGL 1711
Total Semester Credits
Second Semester
Second Semester BUSN 2464 Leading and Coaching Others2
BUSN 2464 Leading and Coaching Others
BUSN 2464 Leading and Coaching Others. .2 BUSN 2466 Managing Change and Conflict. .2
BUSN 2464 Leading and Coaching Others. 2 BUSN 2466 Managing Change and Conflict. 2 HMRS 2410 Employee/Labor Relations 3

	Total Program	Credits																		. 2	29
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Minimum Program Entry Requirements Students entering this program must meet the

following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

014C (7026)

Information is subject to change. This Program Requirements Guide is not a contract.

2014 - 2015

Human Resources Professional CERTIFICATE On-line Accelerated

Program Overview

This online certificate is designed for an individual who is currently working in the Human Resource field or has management background dealing with HR issues. This accelerated program is offered completely through distance learning. Program advisor approval is needed prior to entrance into this program. This certificate program is transferable to the Human Resources AAS degree.

Career Opportunities

Employment opportunities are excellent for skilled, capable, and dependable Human Resource program graduates.

Human Resource program graduates may be employed in positions such as: Human Resource Representative, Human Resource Coordinator, HR Assistant, Human Resource Specialist, Human Resource Generalist, Compensation or Benefits Specialist, Staffing Coordinator, Employment Specialist, Payroll Specialist, or Training and Development Assistant.

Program Outcomes

- Graduates will have the skills, knowledge, and abilities in core human resource functions (e.g., HRIS, Record Keeping, Compensation/ Benefits Administration, and staffing procedures).
- 2. Graduates will have the skills, knowledge, and abilities to identify and deal with employee relation issues and to communicate effectively in a work environment.
- 3. Graduates will have the skills, knowledge, and abilities in applicable federal, state, and local employment regulations and a working knowledge of basic employment laws.
- 4. Graduates will be prepared for employment in the field of human resources (in a variety of positions).
- 5. Graduates will have successfully mastered the general education requirements for work and life roles.

Program Advisor

Kelly Olson, SPHR kelly.olson@saintpaul.edu 651.846.1439

Approved Provider of Courses for Recertification

The Human Resource Certification Institute has recognized Saint Paul College as an approved provider of educational courses for recertification of the PHR or SPHR certification. The Human Resource Program at Saint Paul College is the only program of its kind in the Metro Area.

Additional Application Requirements

Interested applicants should submit transcripts from all colleges previously attended as part of the application process.

Program Advisor approval required for admission.

Program Requirements

☑ Check off when completed

Course Cr
HMRS 1400 Human Resource Management3 HMRS 1490 Talent Management3 HMRS 1510 HR Information Systems & Records3
□ HMRS 1520 Compensation & Benefits Administration
□ HMRS 2410 Employee/Labor Relations

Total Program Credits18

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

HMRS 1400 Human Resource Management3
HMRS 1490 Talent Management3
HMRS 1510 HR Information Systems & Records3
Total Semester Credits
Second Semester
HMRS 1520 Compensation & Benefits
Administration3
HMRS 2410 Employee/Labor Relations3
HMRS 2420 Employment Law & HR Policies3
Total Semester Credits

Minimum Program Entry Requirements

Program advisor approval is needed prior to entrance into this program.

This certificate program is transferable to the Human Resources AAS Degree.

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

218C (7176)

Information is subject to change. This Program Requirements Guide is not a contract.

2014 – 2015

Program Requirements Guide

Marketing AAS DEGREE

Program Overview

This program prepares individuals to become marketing professionals. Students will learn how to market a business that will add economic and cultural value within a community. Students will develop business and marketing plans that address financial, managerial and operational aspects.

Career Opportunities

Employment opportunities are excellent for skilled and capable marketers. Marketing opportunities include Sales Representative, Communication Specialist, Customer Service Representative, Marketing Specialist and Assistant Account Executive.

Program Outcomes

- Graduates will have skills, knowledge and abilities in core business functions including accounting, marketing and management.
- 2. Graduates will have an understanding of how to market products and services and deliver customer value.
- 3. Graduates will have knowledge and skills to attract new customers and retain existing customers.
- 4. Graduates will have successfully mastered the general education required for work and life roles.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Marketing AAS

- BS Marketing
 - Saint Mary's University-Twin Cities Campus

Program Advisor

Craig Maus craig.maus@saintpaul.edu

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, Saturday, and online courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

 \blacksquare Check off when completed

Required Business Core

Professional Component

□ ACCT 1411 Principles of Accounting 14 □ BTEC 1445 Business Communications3 □ BTEC 1421 Business Information Applications 1 OR

Course Cr BUSN 1440 Marketing Principles 3 BUSN 1441 Consumer Behavior 3 BUSN 1444 Advertising and Promotional Strategies 3 BUSN 1446 Sales and Account Management 3 HSPM 2440 Hospitality Marketing and Sales 3 HSPM 1440 Event Management and Planning 3 INTL 2530 International Marketing 3 BUSN 2450 Management Fundamentals 3 BUSN 2472 Business Negotiation Skills 3 BUSN 1480 Business Career Resources 1 Subtotal 28

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area



The mission of the Business Department at Saint Paul College is to sustain the College mission by providing quality, lifelong business education supported by technology for a diverse, metropolitan student population.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Start Dates

Fall, Spring

Course Sequence

The course sequence listed on the back side of this guide is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

2014 - 2015

The following courses are not offered every semester.

Fall Semester Only

Cr

Cr

The following courses are offered fall semester only. BUSN 1441 Consumer Behavior HSPM 2440 Hospitality Marketing and Sales

Spring Semester Only

The following courses are offered spring semester only. BUSN 1444 Advertising and Promotion Strategies BUSN 1446 Sales and Account Management HSPM 1440 Event Management and Planning

All other courses are offered both fall and spring semester.

See back of guide for Course Sequence



following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

302A (7157)

Marketing AAS DEGREE (continued)

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

ACCT 1411 Principles of Accounting 14
BTEC 1421 Business Info Applications 1 OR
CSCI 2410 Mgmt Info Systems3
BUSN 1440 Marketing Principles3
BUSN 1410 Introduction to Business
ENGL 1711 Composition 14
Total Semester Credits
Second Semester

BTEC 1445 Business Communications3
BUSN 1441 Consumer Behavior
BUSN 1444 Advertising and Promotional Strategies 3
HSPM 1440 Event Management and Planning3
SPCH 17XX Any Goal 1 Speech Course
Total Semester Credits

Third Semester

BUSN 1446 Sales and Account Management3
BUSN 2450 Management Fundamentals
HSPM 2440 Hospitality Marketing and Sales3
INTL 2530 International Marketing3
ECON 1720 Macroeconomics OR
ECON 1730 Microeconomics
Total Semester Credits
Fourth Semester

BUSN 1480 Business Career Resources 1 BUSN 2470 Legal Environment of Business 3 BUSN 2472 Business Negotiation Skills 3 Mn Transfer Curriculum. 6 Total Semester Credits. 13

Total Program Credits60

Social Media Marketing CERTIFICATE

Program Overview

Facebook, Twitter, YouTube and other social media platforms are opportunities for organizations to inform, communicate and connect with customers. Social media provides both a listening and outreach tool for promoting organizations, products, services and ideas. This program provides a foundation of social media and Internet marketing. Students will learn and analyze techniques, tactics and tools used to engage customers and deliver superior value. Jobs and careers in this fast changing field of marketing will be explored.

Career Opportunities

All organizations, including for-profit business or non-profit organizations, have the need for communicating with customers and stakeholders. This program is designed for those who want to expand their knowledge and skills of social media and internet marketing strategies. Many employers require some education or experience in marketing even for "non-marketing" positions. Employment opportunities are excellent for marketers who can engage, delight and develop meaningful relationships with customers. Opportunities and positions include social media marketing specialist, marketing coordinator and web marketing analyst.

Program Outcomes

- 1. Develop an understanding of social media and e-marketing and the fundamental shifts on how organizations communicate with its customers.
- Students will have skills and abilities to analyze internet marketing and communications strategies to serve and deliver value that attract new customers and develop relationships with existing customers.
- 3. Create e-marketing and social media marketing plans that are integrated with an organizations overall marketing strategy and goals.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Advisor

Craig Maus craig.maus@saintpaul.edu 651.846.1531

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, Saturday and online courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

 $\ensuremath{\boxtimes}$ Check off when completed

Course C	Cr
BUSN 1440 Marketing Principles	
□ BUSN 1441 Consumer Behavior	.3
BUSN 1444 Advertising and	
Promotional Strategies	3
BUSN 1490 E-Marketing	.3
□ BUSN 1492 Social Media Marketing	.3
□ DGIM 1540 Blogging Applications	2
	_
Total Program Credits 1	7

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

BUSN 1440 Marketing Principles 3 BUSN 1441 Consumer Behavior 3
BUSN 1444 Advertising and
Promotional Strategies
BUSN 1490 E-Marketing3
BUSN 1492 Social Media Marketing3
DGIM 1540 Blogging Applications

Total Program Credits 17

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

338C

Supply Chain Logistics AAS DEGREE

Program Overview

Logistics management is concerned with the procurement, movement, storage and processing of materials and information across the whole of the supply chain, from acquisition of raw materials and components, through manufacturing, to delivery of finished products to end users.

This program provides students the opportunity to understand modern supply chain management. Supply Chain management demands a multidisciplinary and crossfunctional approach to business that transcends the traditional functional boundaries and management disciplines that characterize many organizations.

Career Opportunities

Supply Chain Logistics offers a wide variety of employment opportunities. Some of these are purchasing and supplier management, manufacturing logistics, inventory management, transport management, distribution, warehousing management, customer service management, information management and logistics and supply chain strategy. Because of the wide range of jobs open to graduates, prospective students are asked to consult with the program instructor for specific job forecasts.

Program Outcomes

- 1. Graduates will have knowledge and skills in distribution, transportation management, logistics, and purchasing.
- 2. Graduates will have knowledge and skills in customer service.
- 3. Graduates will be prepared for positions in transportation, distribution, and supply chain management.
- 4. Graduates will have knowledge and skills to provide foresight of potential opportunities in the management of supply chain.
- 5. Graduates will have critical thinking skills.



The mission of the Business Department at Saint Paul College is to sustain the College mission by providing quality, lifelong business education supported by technology for a diverse, metropolitan student population.

Program Advisor

Susan Senger susan.senger@saintpaul.edu 651.846.1519

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, Saturday and online courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

☑ Check off when completed

Re	equired Business Core Cr
	ACCT 1411 Principles of Accounting 1 4 BTEC 1421 Business Information Applications 1 OR CSCI 2410 Management Information Systems
	BTEC 1445 Business Communications
Co	ourse Cr
	BSLM 1410 Transportation Management.
	BUSN 1440 Marketing Principles

ш	BUSIN 1440 Marketing Principles
	BUSN 1480 Business Career Resources 1
	BUSN 2472 Business Negotiation Skills3
	INTL 1512 Export Shipping and Compliance3
	INTL 2420 U. S. Customs and Importing3
	Business Elective1
	Subtotal

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

Cr

- □ Goal 1: Communication7 ENGL 1711 Composition 1 (required) – 4 cr SPCH XXXX (required) (Goal 1 only) – 3 cr

- □ Goals 1-10 of the Minnesota Transfer Curriculum Select a minimum of 1 additional credit......1 General Education Requirements17

Program Start Dates

Fall, Spring, Summer

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Supply Chain Logistics AAS

BA Marketing & Innovative Management Concordia University

Course Sequence

The course sequence listed on the back side of this guide is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

See back of guide for Course Sequence

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

314A (7159)

Supply Chain Logistics AAS DEGREE (continued)

Course Sequence

The following sequence is recommended for a fulltime student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

ACCT 1411 Principles of Accounting 14
BTEC 1421 Business Info Applications 1 OR
CSCI 2410 Mgmt Info Systems3
BTEC 1445 Business Communications
BUSN 1410 Introduction to Business
ENGL 1711 Composition 14
Total Semester Credits
Second Semester
BSLM 1410 Transportation Management
BSLM 1510 Distribution Management

BSLM 2420 Supply Chain Management .4 BSLM 2450 Purchasing Principles and Applications .3 SPCH 17XX Any Goal 1 Speech Course .3 Total Semester Credits .16

Third Semester

BUSN 1440 Marketing Principles
BUSN 1480 Business Career Resources
BUSN 2470 Legal Environment of Business
INTL 1512 Export Shipping and Compliance
ECON 1720 Macroeconomics OR
ECON 1730 Microeconomics
Total Semester Credits
Fourth Semester

BUSN 2472 Business Negotiation Skills3
Business Elective1
INTL 2420 U. S. Customs and Importing3
Mn Transfer Curriculum7
Total Semester Credits

Total Program Credits60

Supply Chain Logistics Advanced technical certificate

Program Overview

In order to be admitted to the Supply Chain Logistics certificate program, the student must have previous related work experience or a business degree (minimum – AAS). Program advisor approval is required for admission. This certificate is not designed for entry level to the logistics field, but as an add-on certificate to enhance and build on prior knowledge.

Logistics management is concerned with the procurement, movement, storage and processing of materials and information across the whole of the supply chain, from acquisition of raw materials and components, through manufacturing, to delivery of finished products to end users.

This program provides students the opportunity of understanding modern supply chain management. Supply chain management demands a multidisciplinary and cross-functional approach to business which transcends the traditional functional boundaries and management disciplines that characterize many organizations.

This certificate program is transferable to the Supply Chain Logistics AAS Degree.

Career Opportunities

Supply Chain Logistics offers a wide variety of employment opportunities. Some of these are purchasing and supplier management, manufacturing logistics, inventory management, transport management, distribution, warehousing management, customer service management, information management and logistics and supply chain strategy. Because of the wide range of jobs open to graduates, prospective students are asked to consult with the program instructor for specific job forecasts.

Program Outcomes

- 1. Graduates will have knowledge and skills in distribution planning, transportation management, and logistics.
- 2. Graduates will have knowledge and skills in customer service.
- 3. Graduates will be prepared for positions in transportation, distribution, and supply chain management.
- Graduates will have knowledge and skills to provide foresight of potential opportunities in the management of the supply chain.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Advisor

Susan Senger susan.senger@saintpaul.edu 651.846.1519

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, Saturday and online courses. Part time and full-time options are available; costs will vary depending on part time or full-time enrollment.

Program advisor approval required for admission This certificate is not designed for entry level to the logistics field, but as an add-on certificate to enhance and build on prior knowledge.

Program Requirements

 \blacksquare Check off when completed

The student must have related work experience or a business degree (minimum – AAS) to be admitted to the Supply Chain Logistics Certificate.

Program Advisor approval required for admission.

Course Cr
 BSLM 1410 Transportation Management
 □ BSLM 2450 Purchasing Principles and Applications



Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

BSLM 1410 Transportation Management3
BSLM 1510 Distribution Management3
BSLM 2420 Supply Chain Management4
BSLM 2450 Purchasing Principles and Applications3
BUSN 1440 Marketing Principles3
BUSN 2472 Business Negotiation Skills3

Total Credits																•										1	9	,
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Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0741

Requires additional education and/ or experience in the field in addition to assessment requirements.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

In order to be admitted to the Supply Chain Logistics program, the student must have related work experience or a business degree (minimum – AAS Degree).

Advisor approval required for admission. $$315C\left(7186\right)$$

2014 - 2015

Career & Technical Education Programs

Transportation Programs

Auto Body Repair

Auto Body Repair AAS Degree (62 Credits)	32
Auto Body Repair Diploma (49 Credits)	34

Automotive Service

Automotive Service Technician AAS Degree (72 Credits)...86 Automotive Service Technician Diploma (69 Credits).....88

Truck Technician

Truck Technician Diploma (67 Credits)	redits)
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Construction & Building Trades

Cabinetmaking

Cabinetmaking Diploma (35 Credits)
Wood Finishing Techniques Certificate (22 Credits) 91
Carpentry
Carpentry Diploma (42 Credits)

Electrical Technology

Electrical Technology Diploma (74 Credits)	
Electromechanics Diploma (53 Credits)	
Electromechanics Certificate (20 Credits)	
pending approval95	

Pipefitting

Pipefitting Diploma (40 Credits)
Pipefitting Apprenticeship Building Trades Diploma
(40 Credits)
Pipefitting Apprenticeship Service Diploma (40 Credits) 98

Plumbing

Sheet Metal

Sheet Metal/HVAC Ducts & Fittings AAS Degree
(60 Credits)
Sheet Metal/HVAC Ducts & Fittings Diploma
(40 Credits)

Welding Technology

Welding Technology AAS (60 Credits)	
Welding Technology Diploma (48 Credits) 103	
Robotic Welding Certificate (18 Credits)	

Technical Programs

Manufacturing Technology

CNC Toolmaking Diploma (64 Credits)
Machine Operator Certificate
(Right Skills Now) (20 Credits)

Individualized Studies Program

Individualized Studies

Individualized Studies AAS (60 Credits)107

Auto Body Repair AAS DEGREE

Program Overview

Auto body workers repair or replace automotive body and frame components. The job involves many skills including frame repair, welding and cutting, metal straightening, application of up-to-date body materials, metal finishings, and painting and alignment of body components. Auto body repair workers also estimate damage and compute labor and material costs.

Career Opportunities

As the population increases so does the use of automobiles and the number of automobile accidents. The U.S. Department of Labor predicts that employment of auto body repair workers will continue to increase.

Employment is steady throughout the year. Graduates often enter an apprenticeship training program and work under an experienced journeyperson for a period of at least three years. The usual four-year apprenticeship term is shortened by completing a college program in auto body repair. There are opportunities for advancement to estimator, adjuster, service manager, parts manager, or shop owner.

Program Outcomes

- Graduates will have knowledge and skills in operating hand and power tools necessary in Auto Body Repair.
- 2. Graduates will have knowledge and skills in welding, cutting, straightening and replacement of parts on an automobile.
- Graduates will have knowledge and skills in correct use and application of up-to-date materials used in auto body repairs.
- 4. Graduates will have knowledge and skills in assessing damage, writing a repair plan, and ordering parts and materials.
- Graduates will have supervised hands-on experience working on customer vehicles and doing real-world repairs.
- 6. Graduates will be prepared for entry-level employment in the auto body industry.
- 7. Graduates will have business and management skills required of an Auto Body Technician.
- 8. Graduates will have critical thinking skills.

Additional Requirements/Recommendations

- Students must read well enough to follow written instructions and comprehend technical information.
- Basic arithmetic skills are needed in order to prepare paint and body material estimates and paint formulas.
- Physical requirements include good mechanical coordination, good eyesight (including color vision), average strength, good sense of feel, and ability to withstand dust, paint fumes, and noise.

Program Faculty

Doug DeRosier doug.derosier@saintpaul.edu 651.846.1392

Shop/Classroom visit recommended

Contact program faculty for a shop visit.

Length of Program

This is a full-time, day program. The program can be completed in three semesters, one of which is the summer term.

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

Course Cr
 ABDY 1400 Introduction to Auto Body Repair3 ABDY 1410 Auto Body Sheet Metal Repair3 ABDY 1420 Auto Body Repair Techniques3 ABDY 1430 Introduction to Paint Prep4 ABDY 1440 Advanced Body & Frame Repair Theory2
 ABDY 1450 Collision Repair, Estimating & Shop Management
General Education/MnTC Requirements Cr Refer to the Minnesota Transfer Curriculum Course List for each Goal Area Cr
 Goal 1: Communication
Total Program Credits

Information is subject to change. This Program Requirements Guide is not a contract.

Additional Program Requirements/Costs

It is mandatory for students in this program to purchase tools and equipment, personal protective/safety equipment, and textbooks for a total additional program cost of approximately \$1,000 to \$2,000. Contact Program Faculty for more information.

Program Start Dates

Fall, Summer

Course Sequence

Recommended course sequence is dependent upon which Semester/Term the student starts the Auto Body Repair, AAS Degree program. Follow the appropriate sequence listed - see back page.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Auto Body Repair AAS

BS Operations Management Minnesota State University-Moorhead

See back of guide for Course Sequence

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 64+ or grade of "C" or better in READ 0722

Writing: Any

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Spatial assessment required: Score 50+ on spatial assessment.

Shop/classroom visit recommended

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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Auto Body Repair AAS DEGREE (continued)

Course Sequence

Recommended course sequence is dependent upon which Semester/Term the student starts the Auto Body Repair, AAS Degree program. Follow the appropriate sequence listed as indicated below.

Summer Term Start – (Summer 2014)	Fall Semester Start – (Fall 2014)	
First Semester (Summer 2014) ABDY 1560 Alignment & Brakes for Auto Body2 ABDY 1570 Air Conditioning & Auto Electric3 ABDY 1581 Welding - Auto Body 1 ABDY 1582 Welding - Auto Body 2 General Education Requirement	First Semester (Fall 2014) ABDY 1400 Introduction to Auto Body Repair 3 ABDY 1410 Auto Body Sheet Metal Repair 3 ABDY 1420 Auto Body Repair Techniques 3 ABDY 1430 Introduction to Paint Prep 4 ABDY 1440 Advanced Body & Frame Rep Theory 2 ABDY 1450 Collision Repair, Estimating &	
Second Semester (Fall 2014) ABDY 1400 Introduction to Auto Body Repair 3 ABDY 1410 Auto Body Sheet Metal Repair 3 ABDY 1420 Auto Body Repair Techniques 3 ABDY 1420 Auto Body Repair Techniques	Shop Management	
Third Semester (Spring 2015)ABDY 1510 Advanced Body & Frame Repair3ABDY 1520 Paint & Color Matching Techniques4ABDY 1530 Paint Finish & Detailing4ABDY 1540 Auto Body Specialization Finishes4ABDY 1550 General Auto Body Detailing4Total Semester Credits19	Third Semester (Summer Term 2015)ABDY 1560 Alignment & Brakes for Auto Body.2ABDY 1570 Air Conditioning & Auto Electric.3ABDY 1581 Welding - Auto Body 12ABDY 1582 Welding - Auto Body 23General Education Requirement.3Total Semester Credits.13	
Remaining General Education courses13General Education courses are taken after the ABDY courses are completed or if your schedule permits in the evening during the semester of ABDY enrollment.Total Program Credits62	Remaining General Education courses13General Education courses are taken after the ABDYcourses are completed or if your schedule permits inthe evening during the semester of ABDY enrollment.Total Program Credits62	

Auto Body Repair DIPLOMA

Program Overview

Auto body workers repair or replace automotive body and frame components. The job involves many skills including frame repair, welding and cutting, metal straightening, application of up-to-date body materials, metal finishings, and painting and alignment of body components. Auto body repair workers also estimate damage and compute labor and material costs.

Career Opportunities

As the population increases so does the use of automobiles and the number of automobile accidents. The U.S. Department of Labor predicts that employment of auto body repair workers will continue to increase.

Employment is steady throughout the year. Graduates often enter an apprenticeship training program and work under an experienced journeyperson for a period of at least three years. The usual four-year apprenticeship term is shortened by completing a college program in auto body repair. There are opportunities for advancement to estimator, adjuster, service manager, parts manager, or shop owner.

Program Outcomes

- Graduates will have knowledge and skills in operating hand and power tools necessary in Auto Body Repair.
- 2. Graduates will have knowledge and skills in welding, cutting, straightening and replacement of parts on an automobile.
- 3. Graduates will have knowledge and skills in correct use and application of up-to-date materials used in auto body repairs.
- 4. Graduates will have knowledge and skills in assessing damage, writing a repair plan, and ordering parts and materials.
- Graduates will have supervised hands-on experience working on customer vehicles and doing real-world repairs.
- 6. Graduates will be prepared for entry-level employment in the auto body industry.
- 7. Graduates will have business and management skills required of an Auto Body Technician.

Additional Requirements/Recommendations

- Students must read well enough to follow written instructions and comprehend technical information.
- Basic arithmetic skills are needed in order to prepare paint and body material estimates and paint formulas.
- Physical requirements include good mechanical coordination, good eyesight (including color vision), average strength, good sense of feel, and ability to withstand dust, paint fumes, and noise.

Program Faculty

Doug DeRosier doug.derosier@saintpaul.edu 651.846.1392

Length of Program

This is a full-time, day program. The program can be completed in three semesters, one of which is the summer term.

Shop/Classroom visit recommended

Contact program faculty for a shop visit.

Program Requirements

☑ Check off when completed

Course Cr
□ ABDY 1400 Introduction to Auto Body Repair 3
□ ABDY 1410 Auto Body Sheet Metal Repair3
□ ABDY 1420 Auto Body Repair Techniques 3
□ ABDY 1430 Introduction to Paint Prep
□ ABDY 1440 Advanced Body &
Frame Repair Theory
ABDY 1450 Collision Repair, Estimating &
Shop Management
□ ABDY 1510 Advanced Body & Frame Repair3
□ ABDY 1520 Paint & Color Matching Techniques 4
□ ABDY 1530 Paint Finish & Detailing4
\square ABDY 1540 Auto Body Specialization Finishes4
□ ABDY 1550 General Auto Body Detailing 4
\square ABDY 1560 Alignment & Brakes for Auto Body2
□ ABDY 1570 Air Conditioning & Auto Electric3
□ ABDY 1581 Welding – Auto Body 12
□ ABDY 1582 Welding – Auto body 23
Subtotal
□ General Education Requirement
Contact advisor for recommendation

Total Program Credits 49

Additional Program Requirements/Costs

It is mandatory for students in this program to purchase tools and equipment, personal protective/safety equipment, and textbooks for a total additional program cost of approximately \$1,000 to \$2,000. Contact Program Faculty for more information.

Program Start Dates

Fall, Summer

Course Sequence

Recommended course sequence is dependent upon which Semester/Term the student starts the Auto Body Repair Diploma program. Follow the appropriate sequence listed - see back page.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Auto Body Repair Diploma

BS Operations Management Minnesota State University-Moorhead

See back of guide for Course Sequence

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 64+ or grade of "C" or better in READ 0722

Writing: Any

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Spatial assessment required: Score 50+ on spatial assessment.

Shop/classroom visit recommended

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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Auto Body Repair DIPLOMA (continued)

Course Sequence

Follow the appropriate sequence for either a Summer or Fall start.

First Semester (Summer 2014)	First Semester (Fall 2014)
ABDY 1560 Alignment & Brakes for Auto Body2	ABDY 1400 Introduction to Auto Body Repair
ABDY 1570 Air Conditioning & Electric	ABDY 1410 Auto Body Sheet Metal Repair
ABDY 1581 Welding - Auto Body 1	ABDY 1420 Auto Body Repair Techniques
ABDY 1582 Welding - Auto Body 2	ABDY 1430 Introduction to Paint Prep
General Education Requirement	ABDY 1440 Advanced Auto Body &
Total Semester Credits	Frame Repair Theory
Second Semester (Fall 2014)	ABDY 1450 Collision Repair, Estimating &
ABDY 1400 Introduction to Auto Body Repair	Shop Management
ABDY 1410 Auto Body Sheet Metal Repair	Total Semester Credits
ABDY 1420 Auto Body Repair Techniques	Second Semester (Spring 2015)
ABDY 1430 Introduction to Paint Prep4	ABDY 1510 Advanced Body & Frame Repair
ABDY 1440 Advanced Body &	ABDY 1520 Paint & Color Matching Techniques 4
Frame Repair Theory	ABDY 1530 Paint Finish & Detailing4
ABDY 1450 Collision Repair, Estimating &	ABDY 1540 Auto Body Specialization Finishes4
Shop Management2	ABDY 1550 General Auto Body Detailing4
Total Semester Credits	Total Semester Credits
Third Semester (Spring 2015)	Third Semester (Summer 2015)
ABDY 1510 Advanced Body & Frame Repair 3	ABDY 1560 Alignment & Brakes for Auto Body2
ABDY 1520 Paint & Color Matching Techniques4	ABDY 1570 Air Conditioning & Auto Electric.
ABDY 1530 Paint Finishing & Detailing	ABDY 1581 Welding - Auto Body 1
ABDY 1540 Auto Body Specialization Finishes4	ABDY 1582 Welding - Auto Body 2
ABDY 1550 General Auto Body Detailing4	General Education Requirement.
Total Semester Credits	Total Semester Credits
Total Program Credits	Total Program Credits
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Automotive Service Technician AAS DEGREE

Program Overview

Automotive repair requires trained technicians skilled in the use of testing equipment, special tools, and the latest information and specifications to service the many types of automobiles. Technicians diagnose trouble in any one of thousands of automotive components. They work with many new systems each year that require new service techniques and training. Some of these include air conditioning units, emission control devices, alternators, electronic ignition, and electronic fuel injection.

Students are prepared to take the ASE certification tests when they have completed the program. ASE certifies technicians nationwide.

Students should have good mechanical aptitude, be in good physical condition and have the ability to get along with others. To profit from the training offered, the students must read well enough to understand the technical information presented.

Career Opportunities

Opportunities are expected to be plentiful for automotive technicians with technical training according to the U.S. Department of Labor. The department also states that the growing complexity of automotive technology, such as the use of electronic and emissions control equipment increasingly necessitates that cars be serviced by professionals.

The auto technician may work in a dealership garage, an independent garage, or as a specialist. Opportunities exist for a technician to become a shop service sales person, new car dealership service manager, or shop owner.

Program Outcomes

- Graduates will have knowledge and skills in use of testing equipment, special tools, and specifications for servicing automobiles.
- 2. Graduates will have the knowledge and skills to diagnose problems in automotive systems.
- 3. Graduates will have knowledge and skills to service automobile brakes, alignment, and suspension, manual transmission, four wheel drive and differentials, heating and air conditioning, starting and charging systems, electrical accessories, fuel systems and automatic transmissions.
- Graduates will have acquired supervised hands-on experience working on customer vehicles.
- 5. Graduates will be prepared for employment as Automotive Service Technicians.

Program Faculty

Mike Hawkes	mike.hawkes@saintpaul.edu
	651.846.1310

Greg Pardun	greg.pardun@saintpaul.edu
John Purcell	john.purcell@saintpaul.edu

Admission Requirement

Admission requires completion of the Automotive Service Technician Diploma, or concurrent enrollment in the second year Auto Technician program.

Tool Costs

Students will need to supply their own basic tools and tool box.

The estimated cost for professional quality tools and tool box is approximately \$2,000-\$3,000.

Tool vendors will be on campus during the first week.

Program Requirements

 \blacksquare Check off when completed

Successful completion of each semester in this program is a pre-requisite for participation in the following semester.

Course	Cr
 AUTO 1410 Trade Knowledge AUTO 1420 General Auto Service AUTO 1430 Brakes AUTO 1440 Alignment & Suspension AUTO 1510 Clutch/Driveline Manual Transs AUTO 1510 Basic Electrical & Battery AUTO 1540 Basic Electrical & Battery AUTO 1550 Heating & Air Conditioning AUTO 1570 Basic Auto Welding AUTO 1570 Basic Auto Welding AUTO 2410 Starting & Charging Systems AUTO 2430 Engine Theory & Repair AUTO 2430 Introduction to Auto Compute AUTO 2510 Fuel Systems AUTO 2520 Engine Drivability 	
General Education/MnTC Requirements	Cr
Refer to the Minnesota Transfer Curriculum C for each Goal Area Goal 1: Communication	7 r
Robavioral Sciences	3

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Behavioral Sciences	3
Goal 6: Humanities and Fine Arts.	3
General Education Requirements	16

Program Start Dates

Fall (Spring - if space available and with instructor permission)

Length of Program

This is a full-time, day program. The program can be completed in four semesters. Students can enroll in the program only in the fall.

Transfer Opportunities

Saint Paul College has transfer articulation agreements between the following program and post-secondary institutions for the baccalaureate degree programs listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Automotive Service Technician AAS

- BS Operations Management Minnesota State University-Moorhead
- BS Automotive Engineering Technology Minnesota State University-Mankato

See back of guide for Course Sequence

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 64+ or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Spatial assessment required: Score 50+ on spatial assessment.

Shop/classroom visit recommended

Student must have a valid driver's license

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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Automotive Service Technician AAS DEGREE (continued)

Course Sequence

The following full-time sequence is recommended.

First Semester

AUTO 1410 Trade Knowledge
AUTO 1420 General Auto Service
AUTO 1430 Brakes
AUTO 1510 Clutch/Driveline Manual Transmission3
AUTO 1530 Basic Electrical & Battery3
AUTO 1570 Basic Auto Welding2
Total Semester Credits

Second Semester

AUTO 1440 Alignment & Suspension5
AUTO 1522 Four Wheel Drive Differential4
AUTO 1540 Basic Engine Management
AUTO 1550 Heating & Air Conditioning4
Total Semester Credits
Third Semester
AUTO 2410 Starting & Charging Systems

AUTO 2450 Introduction to Auto Computers 2
Total Semester Credits

Fourth Semester

AUTO 2510 Fuel Systems
AUTO 2520 Engine Drivability
Total Semester Credits8
Any Semester

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General Education Requirements16		
Service Technician courses.		
before, after or concurrently with the Automotive		
General Education requirement courses may be taken		

Program Requirements Guide

Automotive Service Technician DIPLOMA

Program Overview

This program prepares technicians to perform automotive repairs on complex automobiles at the Technician level. Upon completion of the program students may qualify for the Master Technician designation by passing all 8 of the Automotive Service Excellence (ASE) tests. The program includes courses that ensure individuals have the necessary oral, written, and critical thinking skills to help them with supervisory and management responsibilities.

Students should have good mechanical aptitude, be in good physical condition and have the ability to get along with others. To profit from the training offered, the students must read well enough to understand the technical information presented.

Career Opportunities

Opportunities are expected to be plentiful for automotive technicians with technical training according to the U.S. Department of Labor.

The department also states that the growing complexity of automotive technology, such as the use of electronic and emissions control equipment increasingly necessitates that cars be serviced by professionals.

The auto technician may work in a dealership garage, an independent garage, or as a specialist. Opportunities exist for a technician

to become shop service sales person, new car dealership service manager, or shop owner.

Program Outcomes

- 1. Graduates will be prepared to pass all 8 ASE tests.
- 2. Graduates will have the skills to perform repairs on automobiles at a Master Technician level.
- 3. Graduates will have proficient communication skills for customer service.
- Graduates will have business and management skills required of an automotive service technician.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Automotive Service Technician Diploma

BS Operations Management Minnesota State University-Moorhead

Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

Mike Hawkes	mike.hawkes@saintpaul.edu
	651.846.1310

Greg Pardun	greg.pardun@saintpaul.edu
John Purcell	john.purcell@saintpaul.edu

Length of Program

This is a full-time, day program. The program can be completed in four semesters. Students can enroll in the program only in the fall.

Tool costs

Students will need to supply their own basic tools and tool box.

The estimated cost for professional quality tools and tool box is approximately \$2,000-\$3,000.

Tool vendors will be on campus during the first week.

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

Successful completion of each semester in this program is a pre-requisite for participation in the following semester.

Program Start Dates

Fall (Spring - if space available and with instructor permission)

Course Sequence

The following full-time sequence is recommended.

First Semester

First Semester	
AUTO 1410 Trade Knowledge	
AUTO 1420 General Auto Service	
AUTO 1430 Brakes	
AUTO 1510 Clutch/Driveline Manual Transmission3	
AUTO 1530 Basic Electrical & Battery3	
AUTO 1570 Basic Auto Welding2	
Total Semester Credits	
Second Semester	
AUTO 1440 Alignment & Suspension5	
AUTO 1522 Four Wheel Drive & Differential4	
AUTO 1540 Basic Engine Management	
AUTO 1550 Heating & Air Conditioning4	
Total Semester Credits16	
Third Semester	
AUTO 2410 Starting & Charging Systems3	
AUTO 2420 Electrical Accessories 3	
AUTO 2420 Electrical Accessories 3 AUTO 2430 Engine Theory & Repair 4	
AUTO 2420 Electrical Accessories3AUTO 2430 Engine Theory & Repair4AUTO 2440 Engine Installation2	
AUTO 2420 Electrical Accessories3AUTO 2430 Engine Theory & Repair4AUTO 2440 Engine Installation2AUTO 2450 Introduction to Auto Computers2	
AUTO 2420 Electrical Accessories3AUTO 2430 Engine Theory & Repair4AUTO 2440 Engine Installation2AUTO 2450 Introduction to Auto Computers2General Education Requirement3	
AUTO 2420 Electrical Accessories3AUTO 2430 Engine Theory & Repair4AUTO 2440 Engine Installation2AUTO 2450 Introduction to Auto Computers2	
AUTO 2420 Electrical Accessories3AUTO 2430 Engine Theory & Repair4AUTO 2440 Engine Installation2AUTO 2450 Introduction to Auto Computers2General Education Requirement3	
AUTO 2420 Electrical Accessories 3 AUTO 2430 Engine Theory & Repair 4 AUTO 2440 Engine Installation 2 AUTO 2450 Introduction to Auto Computers 2 General Education Requirement 3 Total Semester Credits 17	
AUTO 2420 Electrical Accessories 3 AUTO 2430 Engine Theory & Repair 4 AUTO 2440 Engine Installation 2 AUTO 2450 Introduction to Auto Computers 2 General Education Requirement 3 Total Semester Credits 17 Fourth Semester 5 AUTO 2520 Engine Drivability 3	
AUTO 2420 Electrical Accessories3AUTO 2430 Engine Theory & Repair4AUTO 2440 Engine Installation2AUTO 2450 Introduction to Auto Computers2General Education Requirement3Total Semester Credits17Fourth Semester4AUTO 2510 Fuel Systems5AUTO 2520 Engine Drivability3AUTO 2530 Auto Transmission Theory2	
AUTO 2420 Electrical Accessories3AUTO 2430 Engine Theory & Repair4AUTO 2440 Engine Installation2AUTO 2450 Introduction to Auto Computers2General Education Requirement3Total Semester Credits17Fourth Semester4AUTO 2510 Fuel Systems5AUTO 2520 Engine Drivability3AUTO 2530 Auto Transmission Theory2AUTO 2542 Auto Tran Diagnosis & Repair4	
AUTO 2420 Electrical Accessories 3 AUTO 2430 Engine Theory & Repair 4 AUTO 2440 Engine Installation 2 AUTO 2450 Introduction to Auto Computers 2 General Education Requirement 3 Total Semester Credits 17 Fourth Semester 5 AUTO 2510 Fuel Systems 5 AUTO 2530 Auto Transmission Theory 2 AUTO 2542 Auto Tran Diagnosis & Repair 4 AUTO 2550 Specialized Lab 1 2	
AUTO 2420 Electrical Accessories3AUTO 2430 Engine Theory & Repair4AUTO 2440 Engine Installation2AUTO 2450 Introduction to Auto Computers2General Education Requirement3Total Semester Credits17Fourth Semester4AUTO 2510 Fuel Systems5AUTO 2520 Engine Drivability3AUTO 2530 Auto Transmission Theory2AUTO 2542 Auto Tran Diagnosis & Repair4	

Total Program Credits 69

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 64+ or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Spatial assessment required: Score 50+ on spatial assessment.

Shop/classroom visit recommended

Student must have a valid driver's license

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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Truck Technician DIPLOMA

Program Overview

Technicians diagnose trouble accurately with the use of modern testing equipment. They repair and service the entire truck and trailer including gas and diesel engines. They also work on air brakes, multi-speed transmissions, differentials, electrical systems, chassis and engine electronics, cooling systems, air conditioning and refrigeration, the chassis, and many more components of today's modern truck.

Career Opportunities

Maintenance departments, which have the responsibility for the repair and the maintenance of the entire truck, need skilled graduates to fill truck technician positions. Many technicians find employment with companies that own a fleet of vehicles such as truck lines, bus lines, and construction companies. Other technicians work for small repair shops, truck dealerships, heavy equipment dealers and the government.

Employment of truck technicians is expected to increase faster than average according to the U.S. Department of Labor.

Program Outcomes

- Graduates will have the knowledge and skills to service and repair medium and heavy duty trucks and trailers.
- Graduates will have acquired supervised work experience servicing and repairing medium and heavy duty trucks and trailers.
- 3. Graduates will be prepared for employment as entry level truck technicians and truck preventative maintenance technicians.
- Graduates will have mastered the general education program requirements for work and life roles.

Additional Requirements/Recommendations

- The student should be capable of passing a rigorous physical examination with emphasis on eyesight, color vision, hearing, back condition and motor coordination.
- Applicants should be high school graduates or equivalent with good reading ability and an understanding of basic mathematics in order to understand and apply technical information.
- Drug test, background check, driving record, and a commercial drivers license may also be required by many employers.

Program Faculty

Patrick Rafferty patrick.rafferty@saintpaul.edu 651.846.1414

Full-time enrollment is required

This is a two-year, full-time day program.

- Intro and Safety must be taken concurrently with the other truck technician classes at the start of the program.
- It is recommended that the general education requirements be taken in the summer term before the first year or between the first and second years.

Textbook and supply costs

The following are estimated costs:

- Textbooks: \$450
- Tools: \$1,000-\$2,000 depending on brand of tools purchased.

Program Requirements

☑ Check off when completed	
Course	Cr
□ TRKM 1400 Introduction and Safety	1
TRKM 1445 Truck Welding 1	2
TRKM 1455 Truck Welding 2	2
□ TRKM 1521 Electrical 1	
□ TRKM 1522 Electrical 2	5
□ TRKM 1551 Clutch and Transmission	5
□ TRKM 1552 Driveshafts and Differentials	4
TRKM 1553 Automatic and Automated	
Transmissions	4
□ TRKM 1560 Truck Brake Systems	6
□ TRKM 2401 Steering and Suspension Systems	
TRKM 2425 Truck Cab Climate Control Systems .	
TRKM 2440 Gasoline Engines	
TRKM 2511 Diesel Engines 1	
TRKM 2512 Diesel Engines 2	
□ TRKM 2540 Preventive Maintenance	
Subtotal	
General Education Requirement	
Refer to the Minnesota Transfer Curriculum	
Course List for specific course options.	
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Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Truck Technician Diploma

BS Operations Management Minnesota State University-Moorhead

Program Start Dates

Fall

Spring - space available and instructor permission

Course Sequence

This diploma program generally includes four semesters of full-time study. The course sequence will depend upon when a student starts the Truck Technician program. Each of the four required semester blocks is offered once every other year. Students beginning Fall Semester will follow the following sequence outlined.

Fall Semester

TRKM 1400 Introduction and Safety1
TRKM 2401 Steering and Suspension Systems6
TRKM 2425 Truck Cab Climate Control Systems3
TRKM 2440 Gasoline Engines
Total Semester Credits

Spring Semester

TRKM 2511 Diesel Engines 16
TRKM 2512 Diesel Engines 26
TRKM 2540 Preventive Maintenance
Total Semester Credits15

Fall Semester

TRKM 1521 Electrical 15
TRKM 1522 Electrical 25
TRKM 1552 Driveshafts and Differentials 4
TRKM 1445 Truck Welding 12
Total Semester Credits16
Spring Semester
TRKM 1455 Truck Welding 2
TRKM 1551 Clutch and Transmission5
TRKM 1553 Automatic and
Automated Transmissions4
TRKM 1560 Truck Brake Systems
Total Semester Credits
General Education Requirement

Total Program Credits 67

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 64+ or grade of "C" or better in READ 0722

Writing: Any

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Spatial assessment required: Score 50+ on spatial assessment.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

100D (7066)

Cabinetmaking DIPLOMA

Program Overview

Cabinetmakers are skilled in the phases of cabinet construction from the initial drafting and layout, to material cutting, assembly, finishing and installation. The principles used in building kitchen cabinets are also used in building store fixtures, furniture and all other types of woodworking. The program prepares students to work for cabinet manufacturers and custom cabinet shops.

Career Opportunities

New construction in housing and industry, and the renovation and modernization of existing structures are expected to increase the demand for cabinetmakers.

Cabinetmaking graduates find positions in kitchen cabinet shops, lumber companies, sash and door factories, store fixture manufacturers, display shops, wood specialty shops, and furniture repair shops. Some graduates operate their own business.

Program Outcomes

- 1. Graduates will have acquired supervised hands-on experience building framed and frameless cabinetry.
- 2. Graduates will have knowledge, skill, and hands-on experience in the use of CAD/CAM software and CNC equipment.
- 3. Graduates will have knowledge, skill, and hands-on experience with wood stains, finishes and finishing equipment.
- 4. Graduates will have knowledge, skill, and hands-on experience in plastic laminate technology and fabrication.
- 5. Graduates will have acquired supervised hands-on experience in raised panel door layout, machinery set up, and production.
- 6. Graduates will have the knowledge, skills, and hands-on experience on the safe operation of woodworking equipment.

Program Faculty

Thomas Hillstead thomas.hillstead@saintpaul.edu

Part-time/Full-time options

Part-time and full-time options available. Technical courses are offered during days.

Textbook, tool, and supply costs

Additional program costs total approximately \$1,000 for the following:

- Tools: \$500.00
- Books & Supplies: \$350.00
- Projects (costs vary) about: \$150.00

Program Requirements

 \blacksquare Check off when completed

MATH 1411 – Applied Math is required for program graduation. It can be taken any semester but must be completed by the end of the second semester.

Course Cr
□ CABT 1410 Print Reading and Design
CABT 1415 Wood Technology
CABT 1425 Machining 15
CABT 1426 Machining 23
CABT 1431 Framed Cabinetry5
□ CABT 2410 Laminates and Countertops4
CABT 2441 Frameless Cabinetry5
□ CABT 2510 CAD/CAM/CNC4
□ MATH 1411 Applied Mathematics3

Additional Requirements/Recommendations

- Mathematics and drawing skills are helpful.
- Students need to be alert, physically fit and have good vision.
- Students are expected to attend all classes and be prompt.
- It is necessary to have good hand and eye coordination.
- Safety will be a major factor in operating all equipment.
- Safety is taught and students must pass all safety tests before operating equipment.

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Not all courses are offered each semester.

First Semester

CABT 1410 Print Reading and Design
CABT 1415 Wood Technology3
CABT 1425 Machining 15
CABT 1431 Framed Cabinetry5
MATH 1411 Applied Mathematics
Total Semester Credits

Second Semester

CABT 1426 Machining 2
CABT 2410 Laminates and Countertops4
CABT 2441 Frameless Cabinetry5
CABT 2510 CAD/CAM/CNC4
Total Semester Credits16

Total Program Cre	its	35
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Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Cabinetmaking Diploma

BS Operations Management Minnesota State University-Moorhead

Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 60+ or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

085D (7040)

Program Requirements Guide

Wood Finishing Techniques CERTIFICATE

Program Overview

Cabinetmakers are skilled in the phases of cabinet construction from the initial drafting and layout, to material cutting, assembly, finishing and installation. The principles used in building kitchen cabinets are also used in building store fixtures, furniture and all other types of woodworking. The program focuses students on wood technology and wood finishing techniques.

Career Opportunities

New construction in housing and industry, and the renovation and modernization of existing structures are expected to increase the demand for cabinetmakers.

Graduates in wood finishing techniques find positions in kitchen cabinet shops, lumber companies, sash and door factories, store fixture manufacturers, display shops, wood specialty shops, and furniture repair shops. Some graduates operate their own businesses.

Program Outcomes

- 1. Graduates will have acquired supervised hands-on experience with state-of-the-art wood finishing techniques.
- 2. Graduates will have knowledge, skill, and hands-on experience with faux, aging and new finishes.
- 3. Graduates will have knowledge, skill, and hands-on experience with wood stains, finishes and finishing equipment.
- 4. Graduates will have knowledge, skill, and hands-on experience in plastic laminate technology and fabrication.
- 5. Graduates will have acquired supervised hands-on experience with print reading and print design.
- Graduates will have the knowledge, skills, and hands-on experience on the safe operation of woodworking equipment.

Program Faculty

Thomas Hillstead thomas.hillstead@saintpaul.edu

Part-time/Full-time options

Part-time and full-time options available. Technical courses are offered during days.

Textbook, tool, and supply costs

Additional program costs total approximately \$1,000 for the following:

- Tools: \$500.00
- Books & Supplies: \$350.00
- Projects (costs vary) about: \$150.00

Program Requirements

☑ Check off when completed

Course Cr
 CABT 1410 Print Reading and Design

Total Program Credits 22

Additional Requirements/Recommendations

• Mathematics and drawing skills are helpful.

- Students need to be alert, physically fit and have good vision.
- Students are expected to attend all classes and be prompt.
- It is necessary to have good hand and eye coordination.
- Safety will be a major factor in operating all equipment.
- Safety is taught and students must pass all safety tests before operating equipment.

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended; however, this sequence is not required. Not all courses are offered each semester.

First Semester

Total Program Credits 22

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 60+ or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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Program Requirements Guide

2014 - 2015

Carpentry DIPLOMA

Program Overview

Construction is the largest industry in terms of investment and manpower expended. Carpenters make up the largest trade group in the construction industry. They erect the wood framework in buildings; they install wood paneling, cabinets, door and window frames, and hardware; and they build stairs and frame roofs. Carpenters work under a wide variety of conditions, indoors and out, in all types of weather. They use many different hand and power tools working with wood, concrete, metals, plastics, and other construction materials.

Good work habits, mechanical aptitude, and strong communication and math skills are necessary to become a successful carpenter. Carpenters must be able to climb, lift, carry, measure, calculate, and plan their work. They often work at considerable heights.

Career Opportunities

Construction activity continues to be strong. Demand for quality carpenters exists in residential, commercial, and heavy construction. Increased activity in infrastructure and building renovation has provided additional opportunities for carpenters.

Carpenters can be involved in the many different phases of a building project or choose to specialize in areas such as framing, drywall, acoustic ceilings, concrete form building, hardware, and millwork. Many graduates continue their training by entering a formal apprentice program. Carpenter apprentices advance to journeyperson by working on the job and attending classes related to their work. Advancement can continue to lead carpenter, carpenter foreman, and job superintendent. Carpenters are employed by a wide variety of construction contractors, or they may choose to become self-employed in their own business.

Program Outcomes

- 1. Graduates will have the knowledge and skills to safely use hand and portable power tools used by carpenters in the construction industry.
- Graduates will be able to work with wood, plastics, concrete, metals, gypsum, and various fiber composite products used by carpenters in the construction industry.
- Graduates will have practiced procedures used by carpenters in framing layout, stair construction, wood and steel framing, and installation of doors, windows, and cabinets.
- Graduates will be familiar with forming systems and types of scaffold used in concrete construction.
- 5. Graduates will be familiar with and have practiced job site safety requirements.

- 6. Graduates will be able to operate instruments and demonstrate procedures used in building layout.
- 7. Graduates will display effective work habits deemed necessary by employers.
- 8. Graduates will be prepared for entry level employment as carpenters and admission to the Carpenters Apprentice Training Program.

Program Faculty

Tim Strand	tim.strand@saintpaul.edu
	651.846.1443
	Cell: 651.276.5861

Full-time enrollment is required

This is a full-time day program. Students should plan for a full day of classes.

Special supplies and tool costs

Students should expect to spend approximately \$1,100.00, beyond the cost of tuition, fees, and books, for special supplies and tools. A list is available from the advisor.

Program Requirements

☑ Check off when completed

Program Prerequisite

CPR/First Aid certification

Course Cr
CARP 1410 Project Estimating3
□ CARP 1420 Construction Blueprint Reading2
□ CARP 1430 Intro to Carpentry & Hand Tools3
□ CARP 1510 Intermediate Carpentry5
□ CARP 1521 Building Technology5
□ CARP 1522 Power Tool and Shop Procedures5
CARP 2410 Advanced Carpentry6
□ CARP 2421 Fieldwork and Carpentry Procedures 5
CARP 2422 Carpentry Concrete Technology
and Installation
□ MATH 1411 Applied Mathematics

Total Program Credits 42

Information is subject to change. This Program Requirements Guide is not a contract.

Program Start Dates

Summer

Course Sequence

The following sequence is required.

Summer Term

CARP 1410 Project Estimating
CARP 1420 Construction Blueprint Reading2
CARP 1430 Intro to Carpentry & Hand Tools 3
Total Semester Credits
Fall Semester
CARP 1510 Intermediate Carpentry
CARP 1521 Building Technology5
CARP 1522 Power Tool and Shop Procedures5
MATH 1411 Applied Mathematics
Total Semester Credits
Spring Semester
CARP 2410 Advanced Carpentry
CARP 2421 Fieldwork and Carpentry Procedures5
CARP 2422 Carpentry Concrete Technology
and Installation

and Installation.	 5
Total Semester Credits	 16

Total Program Credits 42

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Carpentry Diploma

5 Operations Management Minnesota State University-Moorhead

Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 60+ or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

086D (7039)

Electrical Technology DIPLOMA

Program Overview

An electrician is employed to install electrical wiring and equipment for lighting, heating, cooling and other power requirements in residential, commercial and industrial buildings. Using blueprints, diagrams and specifications, students perform installations in accordance with national, state and local safety codes. Considerable physical exertion is often required and the work may be performed outdoors or under such hazardous conditions as heights, unfinished construction or high voltages.

Students should have an interest and aptitude in applied algebra, trigonometry, drawing and science. Good eyesight and color vision are important.

Career Opportunities

According to the U.S. Department of Labor, "As the population and the economy grow... more electricians will be needed to maintain the electrical systems used by industry and to install electrical devices and wiring in new homes, factories, offices and other structures."

Graduates are employed as apprentices by electrical construction firms. Upon completion of apprenticeship and the obtaining of a journeyperson's license, students are open to opportunities as master electricians, inspectors, contractors, estimators and repair persons.

Program Outcomes

- 1. Graduates will have the ability to communicate and conduct themselves in a professional manner with the customers and co-workers
- 2. Graduates will have the skills for performing entry level tasks required of an apprentice electrician in residential, commercial and industrial construction.
- 3. Graduates will have knowledge of the National Electric Code, enabling them to legally and safely install electrical services with supervision.
- 4. Graduates will have the ability to apply electrical theory to practical applications.
- 5. Graduates will meet the MN Department of Labor and Industry's electrical program requirement of specific curriculum and 95% course attendance policy.

Apprenticeship opportunity

Completion of the Electrical Technology Diploma program meets the Minnesota Department of Labor and Industry requirements. 95% attendance in each course and completion of the diploma may qualify for one year of apprenticeship credit.

Program Faculty

Julie Selton	julie.selton@saintpaul.edu 651.846.1770
Keith Setley	keith.setley@saintpaul.edu 651.846.1539
Ed Schones	edward.schones@saintpaul.edu 651.846.1631

Program Requirements

☑ Check off when completed

Certain classes must be taken concurrently and certain classes are prerequisites to other classes. C ------

Course Cr
□ ELTN 1410 National Electrical Code 1 and
Trade Calculations
□ ELTN 1420 Direct Current Circuit Analysis5
ELTN 1430 Alternating Current Circuit Analysis5
□ ELTN 1440 Single-Phase Motors and Generators 5
ELTN 1510 Three-Phase Systems Motors
and Generators
ELTN 1520 Introduction to Electronics and
Test Equipment
□ ELTN 1530 Intermediate Electronics and PLC's 5
ELTN 1540 Low Voltage Systems and
Job Site Safety
ELTN 2410 Distribution Power and Specialty
Transformers4
ELTN 2420 Motor Controls4
ELTN 2430 Residential Wiring and Blueprint
Reading4
ELTN 2440 Heating and Cooling System
Controls
□ ELTN 2510 Wiring Methods and Systems4
□ ELTN 2522 Commercial Wiring Methods5
ELTN 2532 Industrial Wiring Methods and
Service Entrance
□ ELTN 2540 National Electrical Code 24
□ ELTN 2550 Renewable Energy

Additional Program Requirements/Costs

- Students must attend orientation.
- Textbooks are required the first day of class. Go to www.saintpaulcollegebookstore.com for textbook information.
- Multimeter and hand tools, approximately \$500 new.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Start Dates

Fall, Spring

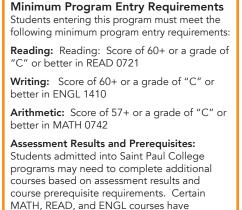
Course Sequence

The following full-time sequence is recommended.

2014 - 2015

First Semester

ELTN 1410 National Electrical Code 1 and Trade Calculations
ELTN 1420 Direct Current Circuit Analysis 5 ELTN 1430 Alternating Current Circuit Analysis 5
ELTN 1440 Single-Phase Motors and Generators 5
Total Semester Credits
Second Semester
ELTN 1510 Three-Phase Systems Motors and
Generators5 ELTN 1520 Introduction to Electronics and
Test Equipment
ELTN 1530 Intermediate Electronics and PLC's5
ELTN 1540 Low Voltage Systems and
Job Site Safety
Third Semester ELTN 2410 Distribution Power and
Specialty Transformers
ELTN 2420 Motor Controls4 ELTN 2430 Residential Wiring and
ELTN 2430 Residential Wiring and Blueprint Reading4
ELTN 2430 Residential Wiring and
ELTN 2430 Residential Wiring and Blueprint Reading4 ELTN 2440 Heating and Cooling System Controls4
ELTN 2430 Residential Wiring and Blueprint Reading



additional prerequisites.

309D (7158)

Electromechanics DIPLOMA

Program Overview

Electromechanics, also referred to as mechatronics, is a new and rapidly growing field that integrates electronics, mechanics, pneumatics, hydraulics, and computer control systems to create new and improved automated manufacturing production systems. This program is designed for people who are interested in plant maintenance (troubleshooting & repair), process set up, installation, and commissioning.

Electromechanics moves beyond simply crosstraining employees, as the discipline recognizes that individuals need to be equally trained in five areas: mechanical, electrical, fluid power, process control/programmable logic controllers (PLC) and computer software and hardware to maintain, troubleshoot and repair highly sophisticated, automated systems.

Students/electricians that previously acquired a diploma/AAS degree in the study of electricity may transfer in credits toward the Electromechanics diploma. Students should have an interest and aptitude in applied algebra, trigonometry, drawing and science. Good eyesight and color vision are important.

Career Opportunities

The Electromechanics program prepares students for careers requiring specialized skills in electricity, electronics, instrumentation, programmable logic controllers, microprocessors, automation and robotics. Students will become multi-skilled technicians capable of solving the many complex problems of manufacturing automation. Students will be prepared for a wide variety of careers including: Instrument Technician, Electrical Technician, Electromechanical Technician, Electronics Mechanic, Machine Repair & Maintenance, Motor Installer, Instrumentation Calibration Technician, and Robotics Technician.

These jobs are found in electrical utilities, oil refineries, water treatment, wastewater treatment, manufacturing plants, chemical, medical, electronics, agriculture, biotechnology and automotive industries.

Program Outcomes

- Graduates will have the ability to communicate and conduct themselves in a professional manner with the customers and co-workers.
- 2. Graduates will have the skills for performing entry level tasks required of an apprentice electrician in residential, commercial and industrial construction.
- 3. Graduates will have knowledge of the National Electric Code, enabling them to legally and safely install electrical services with supervision.
- 4. Graduates will have the ability to apply electrical theory to practical applications.
- 5. Graduates will meet the MN Department of Labor and Industry's electrical program requirement of specific curriculum and 95% course attendance policy.

Program Faculty

Julie Selton	julie.selton@saintpaul.edu 651.846.1770
Keith Setley	keith.setley@saintpaul.edu 651.846.1539
Ed Schones	edward.schones@saintpaul.edu 651.846.1631

Program Options

Courses will be offered both day and evening, and in a variety of approaches: self-paced, computer-assisted, hands-on labs, and one-on-one with instructors.

Additional Program Requirements/Costs

- Student must attend orientation.
- Textbooks are required the first day of class. Go to www.saintpaulcollegebookstore.com for textbook information.
- Multimeter and hand tools, approximately \$500 new.

Program Requirements

Students must be a journeyman electrician, have a Construction Electricity (CNEL) or Electrical Technology (ELTN) Diploma/AAS, or have instructor approval.

☑ Check off when completed

Certain classes must be taken concurrently and certain classes are prerequisites to other classes.

Course Cr
□ ELTN 1422 Direct Current Circuit Analysis5
ELTN 1432 Alternating Current Circuit
Analysis5
ELTN 1442 Single-Phase Motors and
Generators
ELTN 1512 Three-Phase Systems Motors
and Generators5
ELTN 1522 Intro to Electronics and Test
Equipment
ELTN 2420 Motor Controls4
ELTN 2440 Heating and Cooling System
Controls
□ EMEC 2600 Mechanical Fundamentals
EMEC 2610 Fluid System Fundamentals –
Pneumatics
EMEC 2615 Fluid System Fundamentals –
Hydraulics
□ EMEC 2710 Fundamentals of Instrumentation3
□ EMEC 2720 Automatic Process Control4
□ EMEC 2730 Advanced PLC's & Process Control3
Total Program Credits53

Information is subject to change. This Program Requirements Guide is not a contract.

Program Start Dates

Fall, Spring, Summer

Course Sequence

This course sequence is recommended for a full-time student; however, this sequence is not required. Students should consult with the Program Advisor each semester.

Not all courses are offered each semester; a selection of courses is offered summer term.

First Semester

ELTN 1422 Direct Current Circuit Analysis
Second Semester ELTN 1512 Three-Phase Systems Motors and Generator
Third Semester ELTN 2420 Motor Controls 4 ELTN 2440 Heating and Cooling System Controls 4 Total Semester Credits 8
Fourth Semester EMEC 2600 Mechanical Fundamentals EMEC 2610 Fluid System Fund. – Pneumatics SEMEC 2615 Fluid System Fund. – Hydraulics Total Semester Credits
Fifth Semester EMEC 2710 Fundamentals of Instrumentation EMEC 2720 Automatic Process Control EMEC 2730 Advanced PLC's & Process Controls Total Semester Credits
Total Program Credits

Minimum Program Entry Requiremen Students entering this program must meet the following minimum program entry requirement	ne
Reading: Score of 60+ or grade of "C" or better in READ 0721	
Writing: Score of 60+ or grade of "C" or better in ENGL 1410	
Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742	r
Assessment Results and Prerequisites: Students admitted to Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites	349D

Electromechanics CERTIFICATE

Program Overview

Electromechanics, also referred to as mechatronics, is a new and rapidly growing field that integrates electronics, mechanics, pneumatics, hydraulics, and computer control systems to create new and improved automated manufacturing production systems. This program is designed for people who are interested in plant maintenance (troubleshooting & repair), process set up, installation, and commissioning.

Electromechanics moves beyond simply crosstraining employees, as the discipline recognizes that individuals need to be equally trained in five areas: mechanical, electrical, fluid power, process control/programmable logic controllers (PLC) and computer software and hardware to maintain, troubleshoot and repair highly sophisticated, automated systems.

Students should have an interest and aptitude in applied algebra, trigonometry, drawing and science. Good eyesight and color vision are important.

Career Opportunities

The Electromechanics program prepares students for careers requiring specialized skills in electricity, electronics, instrumentation, programmable logic controllers, microprocessors, automation and robotics. Students will become multi-skilled technicians capable of solving the many complex problems of manufacturing automation. Students will be prepared for a wide variety of careers including: Instrument Technician, Electrical Technician, Electromechanical Technician, Electronics Mechanic, Machine Repair & Maintenance, Motor Installer, Instrumentation Calibration Technician, and Robotics Technician.

These jobs are found in electrical utilities (XCEL), oil refineries, water treatment, wastewater treatment, manufacturing plants (3M), chemical, medical, electronics, agriculture, biotechnology and automotive industries.

Program Outcomes

- 1. Graduates will have the ability to communicate and conduct themselves in a professional manner with the customers and co-workers.
- 2. Graduates will have the skills for performing entry level tasks required of an apprentice electrician in residential, commercial and industrial construction.
- 3. Graduates will have knowledge of the National Electric Code, enabling them to legally and safely install electrical services with supervision.
- 4. Graduates will have the ability to apply electrical theory to practical applications.
- 5. Graduates will meet the MN Department of Labor and Industry's electrical program requirement of specific curriculum and 95% course attendance policy.

Program Faculty

Julie Selton	julie.selton@saintpaul.edu 651.846.1770
Keith Setley	keith.setley@saintpaul.edu 651.846.1539
Ed Schones	edward.schones@saintpaul.edu 651.846.1631

Program Options

Courses will be offered both day and evening, and in a variety of approaches: self-paced, computer-assisted, hands-on labs, and one-on-one with instructors.

Additional Program Requirements/Costs

- Student must attend orientation.
- Textbooks are required the first day of class. Go to www.saintpaulcollegebookstore.com for textbook information.
- Multimeter and hand tools, approximately \$500 new.

Program Requirements

Students must be a journeyman electrician, have a Construction Electricity (CNEL) or Electrical Technology (ELTN) Diploma/AAS, or have instructor approval.

Check off when completed

Certain classes must be taken concurrently and certain classes are prerequisites to other classes.

Course	< Cr
□ EMEC 2600 Mechanical Fundamentals	4
EMEC 2610 Fluid System Fundamentals –	
Pneumatics	3
EMEC 2615 Fluid System Fundamentals –	
Hydraulics	3
□ EMEC 2710 Fundamentals of Instrumentation .	3
□ EMEC 2720 Automatic Process Control	4
□ EMEC 2730 Advanced PLC's & Process Control	3

Total Program Credits.....20

Information is subject to change. This Program Requirements Guide is not a contract.

Program Start Dates

Fall, Spring, Summer

Course Sequence

This course sequence is recommended for a full-time student; however, this sequence is not required. Students should consult with the Program Advisor each semester.

Not all courses are offered each semester; a selection of courses is offered summer term.

First Semester

Second Semester

EMEC 2710 Fundamentals of Instrumentation 3
EMEC 2720 Automatic Process Control4
EMEC 2730 Advanced PLC's & Process Controls3
Total Semester Credits

Total Program Cre	s	. 20
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Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 60+ or grade of "C" or better in READ 0721

Writing: Score of 60+ or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted to Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

Pipefitting DIPLOMA

Program Overview

Pipefitters install, maintain, and repair high and low pressure steam systems, high and low pressure hot water systems, snow melting systems, refrigeration systems, heating, gas and oil piping, pneumatic, electronic controls, air conditioning and also provide instrumentation and valve repair. These skills are used working in residential, commercial, and industrial installations. These systems are installed in all types of weather conditions.

Applicants must be high school graduates or the equivalent and should enjoy working in a demanding trade that requires both mental alertness and physical stamina. Pipefitters do heavy lifting and are required to work both indoors and outside, often times in confined spaces.

Career Opportunities

Pipefitters, Steamfitters, and HVACR Technicians work in all aspects of the heating, air conditioning, refrigeration, and temperature control fields. They are also employed at oil refineries, chemical plants, food processing facilities, manufacturing plants, retail and wholesale food stores, and ice rinks.

Maintenance pipefitters work in a variety of environments such as universities, schools, government agencies and utility companies.

Program Outcomes

- 1. Graduates will have the science and math skills needed in the piping systems.
- 2. Graduates will have the basic knowledge and skills necessary to install piping systems in commercial and industrial buildings.
- 3. Graduates will have basic knowledge to properly install and operate low and high pressure steam systems.

Program Faculty

David Landin-Cooper, Program Coordinator david.cooper@saintpaul.edu

Restricted Enrollment

The Pipefitting Diploma is a restricted enrollment joint program offered through the St. Paul Pipefitters Local 455 and Saint Paul College. Admission to the Pipefitters Apprenticeship program is required for enrollment in this program. Contact David Landin-Cooper at 651.846.1308 or Bill Lombard at 651.846.1641 for application information.

Student supplies and tools costs

Text rental \$100.00 PPE-Tools estimated at \$150.00

Program Requirements

☑ Check off when completed

Course Cr	·
 PIPE 1410 Pipe Science/Math	5 5 8 8
 PIPE 1522 Basic Air Conditioning and Refrigeration	5

Total Program Credits 40

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Pipefitting Diploma

BS Operations Management Minnesota State University-Moorhead

Program Start Dates

Fall

Course Sequence

The following sequence is required. This program begins fall semester.

Fall Semester

PIPE 1410 Pipe Science/Math5
PIPE 1420 Pipe Blueprint Reading
PIPE 1430 Pipe Welding 15
PIPE 1441 Basic Heating 13
PIPE 1451 Pipe Shop 14
Total Semester Credits
Spring Semester
PIPE 1442 Basic Heating 2
PIPE 1452 Pipe Shop 2 4
PIPE 1522 Basic Air Conditioning and Refrigeration . 2
PIPE 1530 Pipe Welding 2 5
PIPE 1530 Pipe vveiding 2

Total Program	Credits	• •	•	•	•	•	• •	•	•	•	•	•	•	•	•	•	4	0
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Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading Comprehension: Score of 85 or better

Arithmetic: Score of 72 or better

Spatial: 70% or better

Students must maintain a GPA of 2.5 to continue in the program.

Students are accepted through St. Paul Pipefitters Local 455 JAC; 651.846.1699 or www.local455jatc.com.

096D (7073)

Pipefitting Apprenticeship Building Trades DIPLOMA

Program Overview

Pipefitters install, maintain, and repair high and low pressure steam systems, high and low pressure hot water systems, snow melting systems, refrigeration systems, heating, gas and oil piping, pneumatic, electronic controls, air conditioning and also provide instrumentation and valve repair. These skills are used working in residential, commercial, and industrial installations. These systems are installed in all types of weather conditions.

Applicants must be high school graduates or the equivalent and should enjoy working in a demanding trade that requires both mental alertness and physical stamina. Pipefitters do heavy lifting and are required to work both indoors and outside, often times in confined spaces.

Career Opportunities

Pipefitters, Steamfitters, and HVACR Technicians work in all aspects of the heating, air conditioning, refrigeration, and temperature control fields. They are also employed at oil refineries, chemical plants, food processing facilities, manufacturing plants, retail and wholesale food stores, and ice rinks.

Maintenance pipefitters work in a variety of environments such as universities, schools, government agencies and utility companies.

Student Outcomes

Successfully complete each year of a five-year apprenticeship.

Program Outcomes

- 1. Graduates will have the science and math skills needed in the piping systems.
- 2. Graduates will have the basic knowledge and skills necessary to install piping systems in commercial and industrial buildings.
- 3. Graduates will have basic knowledge to properly install and operate low and high pressure steam systems.

Program Faculty

Bill Lombard, Program Coordinator bill.lombard@saintpaul.edu

Special Features

Students are employed by contractors signatory with Local Union 455 St. Paul Pipefitters.

Restricted Enrollment

The Pipefitting Apprenticeship Building Trades Diploma is a restricted enrollment joint program offered through the St. Paul Pipefitters Local 455 and Saint Paul College. Admission to the Pipefitters Apprenticeship program is required for enrollment in this program. Contact Bill Lombard at 651.846.1641 for application information.

Program Requirements

Check off when completed

Course Cr
Course Cr Course
Welding 1 – Advanced
 RWLD 2661 Apprenticeship Pipe Welding 2 – Advanced2 RWLD 2662 Apprenticeship Pipe
Welding 3 – Advanced
□ RWLD 2663 Apprenticeship Pipe Welding 4 – Advanced
Total Program Credits 40

Course Sequence

The following sequence is required. This program begins fall semester.

1st Year - Fall PIPE 2614 Boiler Systems RWLD 2621 Apprenticeship Pipe Welding 1
1st Year - Spring PIPE 2635 Apprenticeship Pipe Science RWLD 2660 Appren Pipe Weld 1 – Advanced
2nd Year - Fall PIPE 2622 Rigging, Industrial Safety & OSHA RWLD 2622 Apprenticeship Pipe Welding 2
2nd Year - Spring PIPE 2625 Ammonia/Steam/Hot Water System 2 RWLD 2661 Appren Pipe Weld 2 – Advanced 2
3rd Year - Fall PIPE 2641 Supervisory Training/Public Relations2 RWLD 2623 Apprenticeship Pipe Welding 32
3rd Year - Spring PIPE 2631 Industrial Pneumatics 2 RWLD 2662 Appren Pipe Weld 3 – Advanced 2
4th Year - Fall PIPE 2642 Piping Design2 RWLD 2624 Apprenticeship Pipe Welding 42
4th Year - Spring PIPE 2632 Commercial Refrigeration RWLD 2663 Appren Pipe Weld 4 – Advanced
Sth Year - Fall PIPE 2653 Gas Code 1 PIPE 2651 Refrigeration Code 1 PIPE 2652 Oil Code 1 PIPE 2654 Hot Water Code 1
5th Year - Spring PIPE 2655 Ammonia Code2 PIPE 2656 High Pressure Steam Code2
Total Program Credits 40

Minimum Program Entry Requirements Students must have been accepted through

the Local Union 455 of the St. Paul Pipefitters.

Students must maintain a GPA of 2.5 to continue in the apprenticeship program. 305D

Pipefitting Apprenticeship Service DIPLOMA

Program Overview

Pipefitters install, maintain, and repair high and low pressure steam systems, high and low pressure hot water systems, snow melting systems, refrigeration systems, heating, gas and oil piping, pneumatic, electronic controls, air conditioning and also provide instrumentation and valve repair. These skills are used working in residential, commercial, and industrial installations. These systems are installed in all types of weather conditions.

Applicants must be high school graduates or the equivalent and should enjoy working in a demanding trade that requires both mental alertness and physical stamina. Pipefitters do heavy lifting and are required to work both indoors and outside, often times in confined spaces

Career Opportunities

Pipefitters, Steamfitters, and HVACR Technicians work in all aspects of the heating, air conditioning, refrigeration, and temperature control fields. They are also employed at oil refineries, chemical plants, food processing facilities, manufacturing plants, retail and wholesale food stores, and ice rinks.

Maintenance pipefitters work in a variety of environments such as universities, schools, government agencies and utility companies.

Student Outcomes

Successfully complete each year of a five-year apprenticeship.

Program Outcomes

- 1. Graduates will have the science and math skills needed in the piping systems.
- 2. Graduates will have the basic knowledge and skills necessary to install piping systems in commercial and industrial buildings.
- 3. Graduates will have basic knowledge to properly install and operate low and high pressure steam systems.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Pipefitting Apprenticeship Service Diploma

BS Operations Management Minnesota State University-Moorhead

Program Faculty

Bill Lombard, Program Coordinator bill.lombard@saintpaul.edu

Special Features

Students are employed by contractors signatory with Local Union 455 St. Paul Pipefitters.

Restricted Enrollment

The Pipefitting Apprenticeship Service Diploma is a restricted enrollment joint program offered through the St. Paul Pipefitters Local 455 and Saint Paul College. Admission to the Pipefitters Apprenticeship program is required for enrollment in this program. Contact Bill Lombard at 651.846.1641 for application information.

Program Requirements

 $\ensuremath{\boxtimes}$ Check off when completed

Course Cr
 PIPE 2611 Gas and Gas Controls
Air Conditioning.2PIPE 2626 Basic Service Applications2PIPE 2627 Basic Electricity.2PIPE 2638 Commercial Pneumatics.2PIPE 2636 Electrical Controls and Diagrams.2PIPE 2638 Computer Controls.2PIPE 2638 Computer Controls.2PIPE 2642 Piping Design.2PIPE 2643 Test and Balance of Systems.2PIPE 2644 Power Burners and Controls.2PIPE 2645 Direct Digital Controls.2PIPE 2651 Refrigeration Code.1PIPE 2653 Gas Code.1PIPE 2654 Hot Water Code.1PIPE 2655 Ammonia Code.2PIPE 2656 High Pressure Steam Code.2

Total Program Credits 40

Course Sequence

The following sequence is required. This program begins fall semester.

1st Year - Fall

Ist Year - Fall PIPE 2611 Gas and Gas Controls PIPE 2615 Pipe Layout and Installation
1st Year - Spring PIPE 2627 Basic Electricity PIPE 2623 Apprenticeship Refrigeration & Air Conditioning 2
2nd Year - Fall PIPE 2622 Rigging, Industrial Safety & OSHA PIPE 2636 Electrical Controls and Diagrams
2nd Year - Spring PIPE 2628 Commercial Pneumatics PIPE 2626 Basic Service Applications
3rd Year - Fall PIPE 2632 Commercial Refrigeration PIPE 2614 Boiler Systems 2
3rd Year - Spring PIPE 2657 Advanced Boiler Systems PIPE 2638 Computer Controls 2
4th Year - Fall PIPE 2642 Piping Design2 PIPE 2643 Test and Balance of Sestems2
4th Year - Spring PIPE 2644 Oil Burners and Controls PIPE 2645 Direct Digital Controls
Sth Year - Fall PIPE 2653 Gas Code 1 PIPE 2651 Refrigeration Code 1 PIPE 2652 Oil Code 1 PIPE 2654 Hot Water Code 1
5th Year - Spring PIPE 2655 Ammonia Code
Total Program Credits 40

Minimum Program Entry Requirements Students must have been accepted through the Local Union 455 of the St. Paul Pipefitters.

Students must maintain a GPA of 2.5 to continue in the apprenticeship program. $$_{\rm 306D}$$

Program Requirements Guide

Plumbing DIPLOMA

Program Overview

The Plumbing program trains apprentices in commercial, residential and industrial plumbing.

Plumbers install and maintain the water, waste disposal, soil and vent, drainage and gas systems in homes and in commercial and industrial buildings. Plumbers also install faucets, bathtubs, sinks and toilets, and such appliances as dishwashers and water heaters. Plumbers often work from blueprints and specifications and are knowledgeable about building and plumbing codes which govern installations.

Applicants must be high school graduates or equivalent. High school courses in mathematics, science, mechanical drawing and wood or metal shop will be helpful.

Career Opportunities

According to the U.S. Department of Labor, employment of plumbers is expected to grow as fast as the average for all occupations.

Upon completion of the program, the graduate may enter into a five-year apprenticeship program that involves on-the-job training and 180 hours of related training each year. Before becoming a journeyperson plumber, the apprentice must pass the Minnesota State Plumbing Examination. Licensing is by the State Board of Health.

Program Outcomes

- 1. Graduates will demonstrate safe and proper use of tools used in the plumbing field.
- Graduates will have knowledge and skills to install piping in commercial, residential and industrial buildings.
- 3. Graduates will demonstrate knowledge in blueprint reading.
- 4. Graduates will demonstrate knowledge in code and proper installation practices.
- 5. Graduates will demonstrate science and math skills needed in the plumbing field.

Program Start Dates

This part-time, evening program starts each spring. Please check with Rick Gale, Program Coordinator, at 651.846.1641 for information on application deadlines for this program.

Program Faculty

Adjunct faculty members, who are experienced in plumbing and represent private practice, local government, and industry sectors.

Restricted Enrollment

The Plumbing Diploma program is a restricted enrollment joint program offered through the Plumbers and Gasfitters Local 34 and Saint Paul College. Admission to the Plumbing Apprenticeship program is required for enrollment in this diploma program. Contact Rick Gale at 651.846.1389 for application information.

Program Requirements

 $\ensuremath{\boxtimes}$ Check off when completed

Certain classes must be taken concurrently and certain classes are prerequisites to other classes.

Course Cr
□ PLMB 2610 Pre-Apprentice Plumbing2
□ PLMB 2612 Job Safety & Health2
□ PLMB 2614 Applied Math for Plumbing4
PLMB 2616 Plumbing Welding4
PLMB 2618 Basic Drawing4
□ PLMB 2621 Plumbing 14
□ PLMB 2622 Plumbing 24
PLMB 2623 Plumbing 3 Gas Installations and
Gas Controls OR
□ PLMB 2650 Industrial Plumbing
PLMB 2624 Plumbing 4 Commercial and
Residential Service
PLMB 2640 Advanced Plan Reading and
Heavy Rigging
□ PLMB 2631 Plumbing Code 1
□ PLMB 2632 Plumbing Code 2
□ PLMB 2633 Plumbing Code 32
PLMB 2634 Plumbing Code 42

Total Program Credits 44

Program Start Dates

Pre-Apprenticeship Starts: Spring Semester

2014 - 2015

Course Sequence

SPRING SEMESTER

Students must complete the Pre-Apprenticeship classes (PLMB 2610 and PLMB 2612) prior to work eligibility.
PLMB 2610 Pre-Apprentice Plumbing2PLMB 2612 Job Safety and Health2
1st Year ApprenticePLMB 2614 Applied Math for Plumbers4
2nd Year Apprentice PLMB 2622 Plumbing 2
3rd year ApprenticePLMB 2618 Basic Drawing4
4th Year Apprentice PLMB 2623 Plumbing 3 Gas Installations and Gas Controls OR PLMB 2650 Industrial Plumbing
5th Year Apprentice PLMB 2633 Plumbing Code 3

FALL SEMESTER

1st Year ApprenticePLMB 2621 Plumbing 1
2nd Year Apprentice PLMB 2616 Plumbing Welding
3rd year Apprentice PLMB 2624 Plumbing 4 Commercial and Residential Service
4th Year Apprentice PLMB 2640 Advanced Plan Reading and Heavy Rigging 4
Sth Year Apprentice PLMB 2631 Plumbing Code 1
Total Program Credits 44

Minimum Program Entry Requirements Students entering this program must meet the

following minimum program entry requirements:

Reading: Score of 74+

Writing: Any

Arithmetic: Score of 49+

Spatial assessment required: Score of 50+

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

097D (7036)

Sheet Metal/HVAC Ducts & Fittings AAS DEGREE

Program Overview

The sheet metal worker reads blueprints, prepares layouts and operates fabricating devices such as special hand tools, power shears, nibbler, brake, bar folder, turning machines, spot and arc welders, soldering equipment and plasma cutting systems. The skilled sheet metal worker gathers general information and specifications from blueprints for the fabrication and installation of ducts for heating, cooling, filtering and humidifying air. Also, sheet metal workers fabricate and install metal roofing and siding, stainless steel equipment for homes and industry, chutes for material transfer, signs and rain dispersal equipment.

Satisfactory preparation for the sheet metal program may include high school courses in algebra and geometry. Other helpful courses are mechanical drafting and metal shop. Much of the sheet metal work starts with two-dimensional objects and ends with a three-dimensional product. Sheet metal work requires good spatial perception.

Career Opportunities

According to the U.S. Department of Labor, employment of sheet metal workers in construction is expected to increase about as fast as the average for all occupations.

Graduates may go to work for firms that fabricate sheet metal products and become skilled production, precision, or construction sheet metal workers.

Program Outcomes

- 1. Graduates will have the knowledge and skills to layout, fabricate, and assemble all types of sheet metal products.
- 2. Graduates will have the ability to safely operate all types of sheet metal fabricating equipment.
- 3. Graduates will have the knowledge and skills to complete sheet metal welding and soldering processes.
- 4. Graduates will have the knowledge and skills to use computer aided drafting for the design and fabrication of sheet metal products.
- 5. Graduates will have the knowledge and skills to use Drafting and Blueprint Reading to design HVAC duct systems.

Program Faculty

Carl Zitzer carl.zitzer@saintpaul.edu 651.846.1367

Full-time enrollment is required

Students must be enrolled full time with a cohort of students. Technical courses only offered during days.

Special supplies, tools, and estimated costs

The list for required tools is supplied by the program advisor. The cost of tools for the program is approximately \$300. Contact program faculty for more information.

Program Requirements

☑ Check off when completed

Course Cr
□ SMET 1410 Sheet Metal Fitting Layout and Design
and Design
□ SMET 1440 Sheet Metal Welding 5 □ SMET 1450 Sheet Metal Practical
Problem Solving
General Education/MnTC Requirements Cr
Refer to the Minnesota Transfer Curriculum Course List for each Goal Area
Goal 1: Communication 4 ENGL 1711 Composition 1 – 4 cr
□ Goal 3 or Goal 4
 □ Goal 5: History, Social Science and Behavioral Sciences
Select a minimum of 4 additional credits Goals 1 – 10 of the Minnesota Transfer Curriculum
Select a minimum of 4 additional credits General Education Requirements
Total Program Credits60

Program Start Dates

Fall

Course Sequence

The following sequence is recommended.

First Semester

SMET 1410 Sheet Metal Fitting Layout and Design 4
SMET 1415 OSHA 30 HR Training 2
SMET 1420 Sheet Metal Fitting Fabrication 4
SMET 1430 Sheet Metal Drafting &
Blueprint Reading 2
SMET 1440 Sheet Metal Welding 5
SMET 1450 Sheet Metal Practical Problem Solving 2
SPCH 1720 Interpersonal Communication 3
Total Semester Credits

2014 - 2015

Second Semester

SMET 1510 Duct System Layout & Design 4
SMET 1520 Duct System Fabrication 4
SMET 1530 Architectural Sheet Metal 4
SMET 1540 Power Machine Operation 3
SMET 1550 Sheet Metal CAD/CAM Systems 3
Total Semester Credits

Any Semester

General Education requirement courses may be taken
before, after or concurrently with the Sheet Metal
courses.
General Education Requirements

Total Program Credits60



Reading: Score of 64+ or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Spatial assessment required: Score 50+ on spatial assessment.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

Information is subject to change. This Program Requirements Guide is not a contract.

098A

Sheet Metal/HVAC Ducts & Fittings DIPLOMA

Program Overview

The sheet metal worker reads blueprints, prepares layouts, and operates fabricating devices such as special hand tools, power shears, nibbler, brake, bar folder, turning machines, spot and arc welders, soldering equipment, and plasma cutting systems. The skilled sheet metal worker gathers general information and specifications from blueprints for the fabrication and installation of ducts for heating, cooling, filtering, and humidifying air. Also, sheet metal workers fabricate and install metal roofing and siding, stainless steel equipment for homes and industry, chutes for material transfer, signs, and rain dispersal equipment.

Satisfactory preparation for the sheet metal program may include high school courses in algebra and geometry. Other helpful courses are mechanical drafting and metal shop. Much of the sheet metal work starts with two-dimensional objects and ends with a three-dimensional product. Sheet metal work requires good spatial perception.

Career Opportunities

According to the U.S. Department of Labor, employment of sheet metal workers in construction is expected to increase about as fast as the average for all occupations.

Graduates may go to work for firms that fabricate sheet metal products and become skilled production, precision, or construction sheet metal workers.

Program Outcomes

- 1. Graduates will have the knowledge and skills to layout, fabricate, and assemble all types of sheet metal products.
- 2. Graduates will have the ability to safely operate all types of sheet metal fabricating equipment.
- 3. Graduates will have the knowledge and skills to complete sheet metal welding and soldering processes.
- 4. Graduates will have the knowledge and skills to use computer aided drafting for the design and fabrication of sheet metal products.
- 5. Graduates will have the knowledge and skills to use Drafting and Blueprint Reading to design HVAC duct systems.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

Carl Zitzer carl.zitzer@saintpaul.edu 651.846.1367

Full-time enrollment is required

Students must be enrolled full time with a cohort of students. Technical courses only offered during days.

Special supplies, tools, and estimated costs

The list for required tools is supplied by the program advisor. The cost of tools for the program is approximately \$300. Contact program faculty for more information.

Program Requirements

☑ Check off when completed

Course Cr
□ SMET 1410 Sheet Metal Fitting Layout
and Design
□ SMET 1415 OSHA 30 HR Training 2
□ SMET 1420 Sheet Metal Fitting Fabrication 4
SMET 1430 Sheet Metal Drafting &
Blueprint Reading 2
□ SMET 1440 Sheet Metal Welding 5
SMET 1450 Sheet Metal Practical
Problem Solving 2
□ SMET 1510 Duct System Layout & Design 4
□ SMET 1520 Duct System Fabrication 4
□ SMET 1530 Architectural Sheet Metal 4
□ SMET 1540 Power Machine Operation 3
□ SMET 1550 Sheet Metal CAD/CAM Systems 3
□ SPCH 1720 Interpersonal Communication 3

Total Program Credits 40

Program Start Dates

Fall

Course Sequence

The following sequence is recommended.

First Semester

SMET 1410 Sheet Metal Fitting Layout and Design 4
SMET 1415 OSHA 30 HR Training 2
SMET 1420 Sheet Metal Fitting Fabrication 4
SMET 1430 Sheet Metal Drafting &
Blueprint Reading 2
SMET 1440 Sheet Metal Welding 5
SMET 1450 Sheet Metal Practical Problem Solving 2
SPCH 1720 Interpersonal Communication
Total Semester Credits
Second Semester
SMET 1510 Duct System Layout & Design 4
SMET 1520 Duct System Fabrication 4

SMET 1510 Duct System Layout & Design
SMET 1520 Duct System Fabrication 4
SMET 1530 Architectural Sheet Metal 4
SMET 1540 Power Machine Operation 3
SMET 1550 Sheet Metal CAD/CAM Systems 3
Total Semester Credits

Total Program Credits		•		•	•	•	•	•	•	•	•	•	•	•		•	•	4	0
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Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 64+ or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Spatial assessment required: Score 50+ on spatial assessment.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

098D (7074)

Welding Technology AAS DEGREE

Program Overview

Welding and fabrication operations require skilled workers who are well-trained in the use of advanced arc welding process, layout fabrication techniques, blueprint reading and measuring devices. Skilled welding fabricators are thoroughly familiar with both welding and shop equipment, understanding the breakdown and setup procedures, test standards, and knowledge of the various types of metals.

Physical requirements include good eyesight, good hand and eye coordination and the ability to perform heavy, physical work.

Career Opportunities

According to the U.S. Department of Labor, it is projected within the next 10 years to see a 15% growth rate, adding 50,000 new jobs.

Welders and fabricators work in manufacturing plants both in structural and non-structural settings as production welders, maintenance welders, specialty welders, layout fabricators, press brake operators, CNC plasma/laser cutting operators, and robotic welding operators. Welding fabrication is widely used in the aircraft, automobile, trucking, shipbuilding, pipefitting, plumbing, sheetmetal, ironworking and other trades that use metals. Skilled welders may become layout specialists, engineers, technicians, supervisors, Certified Welding Inspectors or private shop owners.

Program Outcomes

- 1. Graduates will have the knowledge and skills in setup and break-down procedures, test standards, and different types of metals.
- 2. Graduates will have knowledge and skills in OAC (Oxyacetylene Cutting) PAC (Plasma Arc Cutting), SMAW (Shielded Metal Arc Welding), GMAW (Gas Metal Arc Welding), GTAW (Gas Tungsten Arc Welding), FCAW (Flux Core Arc Welding).
- 3. Graduates will have acquired supervised hands-on experience in varrious welding processes.
- 4. Graduates will have the knowledge and skills in setup and break-down procedures in the fabrication and welding industry.
- Graduates will be prepared for entry level employment in the welding industry and related fields based on skills acquired in welding, blueprint reading, related math and measuring devices.
- 6. Graduates will have successfully completed the educational program requirements for welding & fabrication through discipline and hard work.
- 7. Graduates of Welding Technology Program will become critical thinkers in relationship to the welding trades as it pertains to real life roles.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

David Fitzgerald david.fitzgerald@saintpaul.edu Todd Hankel todd.hankel@saintpaul.edu William Schuldt william.schuldt@saintpaul.edu Chad Wojahn chad.wojahn@saintpaul.edu

Supply costs

Estimated cost for student supplies \$520.

Program Requirements

☑ Check off when completed

Certain classes must be taken concurrently and certain classes are prerequisites to other classes.

Course Cr
 WLDG 1400 Industrial Shop Practices 14 WLDG 1410 Welding Basics2 WLDG 1420 SMAW: E60102 WLDG 1430 SMAW: E70183 WLDG 1440 GMAW Short Arc2 WLDG 1450 Intro to Blueprint/Measuring Devices .3 WLDG 1500 Industrial Shop Practices 24 WLDG 1510 GMAW Spray and Pulse Spray3 WLDG 1520 GMAW Core Wires3 WLDG 1520 GMAW Core Wires3 WLDG 1540 Blueprint Welding Symbols/Math/ Welder Qualification3 WLDG 2400 Industrial Shop Practices 34 WLDG 2420 GTAW Aluminum and SST4
$\hfill\square$ WLDG 2430 Grinding and Finishing 2
Subtotal
General Education/MnTC Requirements Cr
Refer to the Minnesota Transfer Curriculum Course List for each Goal Area
□ Goal 1: Communication7 ENGL 1711 Composition 1 (required) – 4 cr SPCH XXXX (required) (Goal 1 only) – 3 cr □ Goal 3 or Goal 43
Goal 3: Natural Sciences OR Goal 4: Mathematical/Logical Reasoning
Behavioral Sciences
Total Program Credits 60
Transfer Opportunities

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Welding Technology AAS

BS Operations Management Minnesota State University-Moorhead

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student.

2014 - 2015

First Semester

First Semester WLDG 1400 Industrial Shop Practices 14 WLDG 1410 Welding Basics
Second Semester WLDG 1500 Industrial Shop Practices 2 4 WLDG 1510 GMAW Spray & Pulse Spray 3 WLDG 1520 GMAW Core Wires
Third SemesterWLDG 2400 Industrial Shop Practices 3 4WLDG 2410 GMAW Aluminum and SST 2WLDG 2420 GTAW Aluminum and SST 4WLDG 2430 Grinding and Finishing
Fourth Semester Goal 1: Communication .7 Goal 3: Natural Sciences or Goal 4: Mathematical/ Logical Reasoning. .3 Goal 5: History, Social Science and Behavioral Sciences .3 Total Semester Credits. .13 Total Program Credits .60

Minimum Program Entry Requirements Students entering this program must meet the

following minimum program entry requirements:

Reading: Score of 60+ on Reading Comprehension or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

327A (7160)

Welding Technology DIPLOMA

Program Overview

Welding and fabrication operations require skilled workers who are well-trained in the use of advanced arc welding process, layout fabrication techniques, blueprint reading and measuring devices. Skilled welding fabricators are thoroughly familiar with both welding and shop equipment, understanding the breakdown and setup procedures, test standards, and knowledge of the various types of metals.

Physical requirements include good eyesight, good hand and eye coordination and the ability to perform heavy, physical work.

Career Opportunities

According to the U.S. Department of Labor, it is projected within the next 10 years to see a 15% growth rate, adding 50,000 new jobs.

Welders and fabricators work in manufacturing plants both in structural and non-structural settings as production welders, maintenance welders, specialty welders, layout fabricators, press brake operators, CNC plasma/laser cutting operators, and robotic welding operators. Welding fabrication is widely used in the aircraft, automobile, trucking, shipbuilding, pipefitting, plumbing, sheetmetal, ironworking and other trades that use metals. Skilled welders may become layout specialists, engineers, technicians, supervisors, Certified Welding Inspectors or private shop owners.

Program Outcomes

- 1. Graduates will have the knowledge and skills in setup and break-down procedures, test standards, and different types of metals.
- 2. Graduates will have knowledge and skills in OAC (Oxyacetylene Cutting) PAC (Plasma Arc Cutting), SMAW (Shielded Metal Arc Welding), GMAW (Gas Metal Arc Welding), GTAW (Gas Tungsten Arc Welding), FCAW (Flux Core Arc Welding).
- 3. Graduates will have acquired supervised hands-on experience in various welding processes.
- Graduates will have the knowledge and skills 4. in setup and break-down procedures in the fabrication and welding industry.
- 5. Graduates will be prepared for entry level employment in the welding industry and related fields based on skills acquired in welding, blueprint reading, related math and measuring devices.
- Graduates will have successfully completed 6. the educational program requirements for welding & fabrication through discipline and hard work.
- 7. Graduates of Welding Technology Program will become critical thinkers in relationship to the welding trades as it pertains to real life roles.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

David Fitzgerald david.fitzgerald@saintpaul.edu Todd Hankel todd.hankel@saintpaul.edu William Schuldt william.schuldt@saintpaul.edu Chad Wojahn chad.wojahn@saintpaul.edu

Supply costs

Estimated cost for student supplies \$520.

Program Requirements

☑ Check off when completed

Certain classes must be taken concurrently and certain classes are prerequisites to other classes.

Course Cr
UWLDG 1400 Industrial Shop Practices 1
UWLDG 1410 Welding Basics
□ WLDG 1420 SMAW: E60102
□ WLDG 1430 SMAW: E70182
UWLDG 1450 Intro to Blueprint/Measuring Devices .3
□ WLDG 1500 Industrial Shop Practices 24
□ WLDG 1510 GMAW Spray and Pulse Spray3
UWLDG 1520 GMAW Core Wires
□ WLDG 1530 Intro to GTAW
WLDG 1540 Blueprint Welding Symbols/Math/
Welder Qualification
□ WLDG 2400 Industrial Shop Practices 34
□ WLDG 2410 GMAW Aluminum and SST2
□ WLDG 2420 GTAW Aluminum and SST4
□ WLDG 2430 Grinding and Finishing2
WLDG 2440 Intro to Robotic Welding &
Fabrication

Program Start Dates

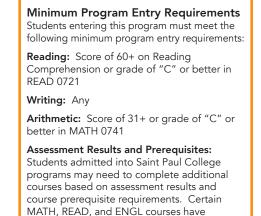
Fall, Spring,

Course Sequence

The following sequence is recommended for a full-time student.

First Semester

WLDG 1400 Industrial Shop Practices 1
WLDG 1410 Welding Basics2
WLDG 1420 SMAW: E6010
WLDG 1430 SMAW: E7018
WLDG 1440 GMAW Short Arc2
WLDG 1450 Intro to Blueprint/Measuring Devices3
Total Semester Credits
Second Semester
WLDG 1500 Industrial Shop Practices 2
WLDG 1510 GMAW, Short Arc
WLDG 1520 GMAW Core Wires
WLDG 1530 Intro to GTAW3
WLDG 1540 Blueprint Welding Symbols/Math/
Welder Qualification
Total Semester Credits
Third Semester
WLDG 2400 Industrial Shop Practices 3
WLDG 2410 GMAW Aluminum & Stainless Steel2
WLDG 2420 GTAW Aluminum and SST4
WLDG 2430 Grinding and Finishing2
WLDG 2440 Intro to Robotic Welding & Fabrication 4
Total Semester Credits
Total Program Credits48



additional prerequisites.

324D (7187)

Robotic Welding CERTIFICATE

Program Overview

Professional fabricators and CNC operators are highly skilled individuals who excel in math, geometry, formulations, programing, critical thinking and blueprint reading. Physical requirements include good eyesight, good hand and eye coordination, standing for long periods of time and the ability to perform heavy, physical work.

Career Opportunities

Fabricators and CNC operators work in manufacturing plants as production welders, specialist welders, layout engineers, press brake and CNC operators both in structural and non-structural settings. Welding/fabricating is widely used in the aircraft, automotive, heavy equipment, sheet metal, and other trades that use fabrication and CNC equipment.

Program Outcomes

- Graduates will have the knowledge and skills in setup and break-down procedures of CNC equipment including press brake, CNC plasma cutting and robotic welding.
- 2. Graduates will have knowledge and skills in sheet metal bend deduction formulation.
- Graduates will have acquired supervised hands-on experience in using various welding and finishing processes and fabrication equipment.
- 4. Graduates will be prepared for employment in the welding industry and related fabrication fields.

Program Faculty

Todd Hankel todd.hankel@saintpaul.edu

Supply Costs

Estimated cost for student supplies \$520.

Program Requirements

Students must have a Welding Diploma/AAS or instructor approval.

 $\ensuremath{\boxdot}$ Check off when completed

Course Cr	r
□ WLDG 2500 2D CAD	2
□ WLDG 2510 Safety1	1
□ WLDG 2520 CNC Plasma	2
□ WLDG 2530 Press Brake Operations	3
□ WLDG 2540 Robotic Welding Operations	3
□ WLDG 2550 Industrial Equipment	2
UWLDG 2560 Layout Practices4	1
□ WLDG 2570 Robotic Welding Capstone 1	1

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended for a full-time student.

First Semester

WLDG 2500 2D CAD	2
WLDG 2510 Safety	1
WLDG 2520 CNC Plasma	2
WLDG 2530 Press Brake Operations	3
WLDG 2540 Robotic Welding Operations	3
WLDG 2550 Industrial Equipment	2
WLDG 2560 Layout Practices	4
WLDG 2570 Robotic Welding Capstone	1
Total Semester Credits	8
Total Program Credits1	8

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 60+ or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

350C

Information is subject to change. This Program Requirements Guide is not a contract.

CNC Toolmaking DIPLOMA

Program Overview

This area produces skilled craftspeople who make precision metal parts that are highly specialized and not mass produced. Machinists produce parts from metal castings, forgings, stampings, or from solid metal stock. They make parts to exact specifications by removing excess metal with the aid of machine tools, numerically controlled machines, computer assisted machinery, and precise measuring and gauging equipment.

Career Opportunities

As the economy expands, so will the demand for manufactured goods that need machine metal parts. CNC Toolmaking graduates are hired by industries that manufacture automobiles, industrial machinery, military equipment, and other metal products. At many places of employment, graduates can apply training received at the College towards the completion of apprenticeship requirements.

Program Outcomes

- 1. Graduates will have the knowledge and skills to make precision-machined parts and tooling.
- 2. Graduates will have the knowledge and skills to program and operate CNC equipment using CAD and CAM.
- 3. Graduates will have the knowledge and skills to operate and set-up inspection and gauging equipment.
- 4. Graduates will have the knowledge and skills to meet national entry-level skills standards.
- 5. Graduates will have acquired shop communication skills such as blueprint reading, practical geometric dimensioning, and shop CAD/CAM skills.
- 6. Graduates will have successfully mastered the general education program requirements for work and life skills.
- 7. Graduates will use solidworks, design parts and collaborate with engineers.

Program Faculty

Terry Murray terry.murray@saintpaul.edu Mike Vizenor Dave Widmyer Richard Wold

mike.vizenor@saintpaul.edu david.widmyer@saintpaul.edu richard.wold@saintpaul.edu

Program Requirements

 \blacksquare Check off when completed

Certain classes must be taken concurrently and certain classes are prerequisites to other classes.

Course	Ĵr -
CNCT 1410 Introduction to Manufacturing Processes	
Manufacturing Processes CNCT 1420 Engineering Drawings CNCT 1430 Materials Processes 1 CNCT 1431 Materials Processes 2 CNCT 1710 Shop Calculations CNCT 1720 Geometric Dimensioning CNCT 1730 CNC 1 CNCT 1731 CNC 2 CNCT 1740 Design Principles CNCT 2410 Tool Design CNCT 2420 Mechanical Systems/EDM	4 4 2 4 4 4 4
CNCT 2430 Mold/Plastic Technology CNCT 2440 Manufacturing Applications CNCT 2510 Mechanical Applications CNCT 2520 CAD CNCT 2530 CNC Lathe CNCT 2540 Computer Aided Manufacturing	4 4 4 4

Total Program Credits64

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required.

First Semester

CNCT 1410 Introduction to
Manufacturing Processes4
CNCT 1420 Engineering Drawings4
CNCT 1430 Materials Processes 1
CNCT 1431 Materials Processes 2
CNCT 2520 CAD4
Total Semester Credits

Second Semester

CNCT 1710 Shop Calculations2
CNCT 1720 Geometric Dimensioning2
CNCT 1730 CNC 1
CNCT 1731 CNC 2
CNCT 1740 Design Principles4
CNCT 2540 Computer Aided Manufacturing4
Total Semester Credits

Third Semester

CNCT 2410 Tool Design4
CNCT 2420 Mechanical Systems/EDM4
CNCT 2430 Mold/Plastic Technology4
CNCT 2440 Manufacturing Applications4
CNCT 2530 CNC Lathe4
Total Semester Credits
Fourth Semester
CNCT 2510 Mechanical Applications4
Proroquisite CNCT 1431 with a grade of

CNCT 2510 Mechanical Applications4
Prerequisite CNCT 1431 with a grade of
"C" or better.
Total Semester Credits
Total Program Credits

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 60+ or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

313D (7037)

Information is subject to change. This Program Requirements Guide is not a contract.

Machine Operator CERTIFICATE Right Skills Now for Manufacturing

Program Overview

The Right Skills Now (for Manufacturing) certificate is designed to provide training in the following areas: Job planning, benchwork, materials, manual milling, manual turning, blue print reading, CNC milling and CNC turning. This program was designed to address the current shortage of CNC operators. Graduates from this program are prepared to enter the industry as entry-level manual and CNC machine tool production operators with minimum skills.

The Right Skills Now (for Manufacturing) certificate will introduce manufacturing workplace safety, blueprint reading, general manufacturing processes, basic production manual machining skills, and introduction to operations.

The curriculum closely aligns with standards set forth by the National Institute of Metalworking Skills (NIMS). Students may choose to apply these credits towards a Machine Tool Diploma. The additional coursework will enhance the students' communication, mathematics, machining, CAD/ CAM, and critical thinking skills.

Career Opportunities

Right Skills Now is a pathway of the National Association of Manufacturers (NAM)–Endorsed Manufacturing Skills Certification System, which includes nationally portable, industry-recognized certifications that are combined with for-credit education programs. These education pathways are directly aligned to career pathways in manufacturing, so students progressing through the programs earn college credit towards a degree, have an opportunity to earn a national certification with labor market value, and the hands-on technical experience to be successful on the job.

Program Outcomes

- Students will have skills to operate computercontrolled machine tools; lathes, drills, and milling machines.
- 2. Graduates will acquire knowledge of workplace safety.
- 3. Graduates will have on the job learning opportunities through an internship.

Program Faculty

Terry Murray terry.murray@saintpaul.edu Mike Vizenor mike.vizenor@saintpaul.edu Dave Widmyer Richard Wold richard.wold@saintpaul.edu

Estimated Cost for Student Supplies

The estimated cost for student supplies is \$550.

Program Requirements

 $\ensuremath{\ensuremath{\boxtimes}}$ Check off when completed

Certain classes must be taken concurrently and certain classes are prerequisites to other classes.

Course Cr
CNCT 1410 Introduction to Manufacturing
Processes
□ CNCT 1420 Engineering Drawing4
CNCT 1430 Materials Processes 1
CNCT 1431 Materials Processes 2
□ CNCT 2550 Industry Internship4

Total Program Credits20

Program Start Date

Fall, Spring

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required.

2014 - 2015

First Semester

CNCT 1410 Introduction to Manufacturing
Processes
CNCT 1420 Engineering Drawing
CNCT 1430 Materials Processes 14
CNCT 1431 Materials Processes 2
Total Semester Credits
Second Semester

CNCT 2550 Industry Internship
Prerequisite CNCT 1410, 1420, 1430,
and 1431 must be completed with a
grade of "C" or better.
Total Semester Credits
Total Program Credits



Minimum Program Entry Requirements Students entering this program must meet the

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 60+ or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites

342C

Information is subject to change. This Program Requirements Guide is not a contract.

2014 - 2015

Individualized Studies AAS DEGREE

Program Overview

The Individualized Studies degree is a personalized degree which provides students the opportunity to fulfill a unique career goal that cannot be met through the completion of any single technical program offered by the College. An example would be the combination of a technical program (e.g. automotive technology) with technical coursework in business for those planning to open their own automotive repair business. In the first semester of the Individualized Studies degree, students work to design a degree plan that meets their individualized educational needs while also fulfilling 16 credits within the Minnesota Transfer Curriculum. Students will develop an individualized program sequence through a structured advising process with faculty and college advisor, to facilitate meeting the requirements of the AAS degree in Individualized Studies.

Career Opportunities

The Individualized Studies AAS degree is intended for students who select a unique degree that meets their career interests. Career opportunities include personally owned business; advancement to middle management, sales, and training in the area of their discipline.

Program Outcomes

- Graduates will have designed an individualized studies learning plan that focuses on work and life goals.
- 2. Graduates will recognize the need for and develop an ability to engage in life-long professional development and learning.

Program Faculty

TBA – see your program advisor

Program Advisor

Transfer Center transfer@saintpaul.edu

Program Requirements

☑ Check off when completed	
Course	Cr
□ INDS 1400 Individualized Studies Planning	1
□ CSCR 1406 Study Skills & College Success Strategies Subtotal	
Program Focus: Approved Course Plan	Cr

Specific plan will be determined during the INDS 1400 Individualized Studies Planning. Courses will be selected from existing technical coursework on campus.

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

General Education/MnTC Requirements

Goal 1: Communication7
ENGL 1711 Composition 1 (required) – 4 cr
SPCH XXXX (required) – 3 cr
□ Goal 3: Natural Sciences OR
□ Goal 4: Mathematical/Logical Reasoning3
Goal 5 History, Social Science and
Behavioral Sciences
□ Goal 6: Humanities & Fine Arts
General Education Requirements

Total Program Credits60

Note: Students will make use of the Transfer Center to modify their program plan as needed. Each modification should have the approval of the Transfer Center to maintain integrity of the degree.

Program Start Dates

Fall, Spring, Summer

Course Sequence

First Semester

Cr

CSCR 1406 Study Skills & Colleg	e
Success Strategies .	
INDS 1400 Individualized Studies	s Development1
ENGL 1711 Composition 1	
Goal 3 or 4 Elective	
Goal 6 Elective	
Total Semester Credits	13

Second, Third and Fourth Semesters

Specific plan will be determined during the INDS 1400 Individualized Studies Planning. Courses will be selected from existing technical coursework on campus.

Total Program (Credits													.60)
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Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites: Students admitted into Saint Paul College

Students admitted to Saint Paul College Students admitted to Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

Information is subject to change. This Program Requirements Guide is not a contract.

Computer Graphics & Visualization Programs

Computer Graphics and Visualization Programs

Computer Graphics and Visualization AS Degree
(60 Credits)
Visualization Technology AAS Degree (60 Credits)110
Visualization Technology Certificate (21 Credits)111
Computer Animation Certificate (18 Credits)112
Web Design Certificate (18 Credits)
Photography Entrepreneurship AAS Degree
(60 Credits)
Digital Photography Certificate (16 Credits)

For additional technology programs, see Computer Science, pages 185-201.

Computer Graphics and Visualization AS DEGREE

Program Overview

This program prepares students for jobs in the exciting computer graphics and animation field. Students will learn how to take an idea from concept through production including computer graphics, computer animation, sound and video.

Computer Graphics Specialists can work in a wide variety of creative jobs including web design, film and animation production, CD ROM production and any organization that can benefit from these special talents. With more and more animation moving to the desktop, the computer graphics specialist is becoming a high demand career.

The student should be creative and have excellent communication skills. Students should exhibit qualities of patience, and preciseness, and should enjoy working independently and on team projects.

Career Opportunities

The computer graphics field relates to many jobs in the multimedia area including but not limited to:

- Web Designer
- Computer Animator
- Computer Game Designer and Developer
- Multimedia Developer

Program Outcomes

- 1. Graduates will have knowledge and skills in web design.
- 2. Graduates will have knowledge and skills in computer animation.
- 3. Graduates will have knowledge and skills in digital sound and video production.
- Graduates will have knowledge and skills in 4. digital photography.
- 5. Graduates of this program may choose to continue their education at a four-year institution in computer graphics, technical communication or a related field.

Transfer Opportunities

Saint Paul College has transfer articulation agreements between the following program and post-secondary institutions for the baccalaureate degree programs listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Computer Graphics and Visualization AS

- Technical Communication and ΒA Professional Writing Metropolitan State University
- BS **Operations Management** Minnesota State University-Moorhead

Program Advisor

Darren Pearson darren.pearson@saintpaul.edu

Recommended Equipment

Digital Camera, USB Drive, Adobe Software

Estimated Book Cost \$50 - \$75 per class

Program Requirements

☑ Check off when completed

Course

664136 61
□ CSCI 1450 Web Fundamentals/HTML
\Box DGIM 1400 Introduction to Computer Graphics 4
□ DGIM 1443 Dreamweaver 12
□ DGIM 1448 Flash 12
□ DGIM 1483 Photoshop 12
□ DGIM 1540 Blogging Applications2
□ DGIM 2570 Digital Photography 12
DGIM 2586 Digital Sound2
□ DGIM 2587 Digital Video 12
□ Technical Electives8
Any 8 credits in DGIM or CSCI
Subtotal
General Education/MnTC Requirements Cr

General Education/MnTC Requirements

Students must select courses from at least six (6) different Goal Areas of the MnTC. Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

- ENGL 1711 Composition 1 (required) - 4 cr SPCH XXXX (required) (Goal 1 only) – 3 cr
- MATH 17XX - 3 cr OR PHIL 1710 Logic - 3 cr
- □ Goal 5: History, Social Science and Behavioral ARTS 1710 Fundamentals of Photography 1 – 3 cr
- highly recommended □ Goals 1-10 of the Minnesota Transfer Curriculum . .9 Select a minimum of 9 additional credits

Information is subject to change. This Program Requirements Guide is not a contract.

Program Start Dates

Fall, Spring

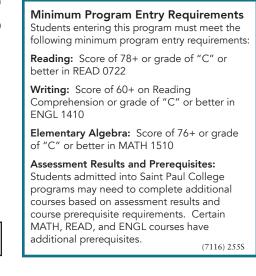
Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

Einet Comoston

Cr

First Semester DGIM 1400 Introduction to Computer Graphics CSCI 1450 Web Fundamentals/HTML 4 DGIM 1443 Dreamweaver 1 2 ENGL 1711 Composition I 4 SPCH 17XX Any Goal 1 Speech Course 3 Total Semester Credits
Second SemesterDGIM 1448 Flash 1DGIM 1448 Plotoshop 1DGIM 1540 Blogging Applications2Humanities and Fine Arts (Goal 6)3History, Social Science/Behavioral Science (Goal 5)4Total Semester Credits13
Third Semester DGIM 2570 Digital Photography 1 2 DGIM 2586 Digital Sound 2 Technical Electives 4 Mathematical/Logical Reasoning (Goal 4) 3 Humanities and Fine Arts (Goal 6) 4 Total Semester Credits 15
Fourth Semester DGIM 2587 Digital Video 1
Total Program Credits60



2014 - 2015

Visualization Technology AAS DEGREE

Program Overview

This program prepares students for jobs in the exciting computer graphics and animation field. Students will learn how to take an idea from concept through production, including computer graphics, computer animation, sound and video.

Computer Graphics Specialists can work in a wide variety of creative jobs including web design, film and animation production, CD ROM production and any organization that can benefit from these special talents. With more and more animation moving to the desktop, the computer graphics specialist is becoming a high demand career.

The student should be creative and have excellent communication skills. Students should exhibit qualities of patience and precision and enjoy working both independently and on team projects.

Career Opportunities

The computer graphics field relates to many jobs in the multimedia area including but not limited to:

- Web Designer
- Computer Animator
- Computer Game Designer and Developer
- Multimedia Developer

Program Outcomes

- 1. Graduates will have knowledge and skills in web design.
- 2. Graduates will have knowledge and skills in digital photography.
- 3. Graduates will have knowledge and skills in digital sound and video production.
- 4. Graduates will have developed an online portfolio of work
- 5. Graduates will have knowledge of freelancing and self-employment business practices

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Visualization Technology AAS

BS Operations Management

Minnesota State University-Moorhead

Information is subject to change. This Program Requirements Guide is not a contract.

Program Advisor

Darren Pearson darren.pearson@saintpaul.edu

Part-Time/Full-time Options

This program can be completed by using a combination of day, evening, and Saturday courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Recommended Equipment

USB Drive, Digital Camera, Adobe Software

Estimated Book Cost \$50 - \$75 per class

Program Requirements

Check off when completed

Course

CSCI 1450 Web Fundamentals/HTML
□ DGIM 1400 Introduction to Computer Graphics 4
□ DGIM 1448 Flash 12
□ DGIM 1449 Flash 22
□ DGIM 2560 Illustrator4
□ DGIM 2569 Digital Portfolio Development2
□ DGIM 2587 Digital Video 12
□ DGIM 2588 Digital Video 22
□ Technical Electives
Subtotal
Select one of the emphases listed below 12

Web Emphasis

□ CSCI 1470 Web Design
□ DGIM 1443 Dreamweaver 1
□ DGIM 1444 Dreamweaver 2
□ DGIM 1483 Photoshop 1
□ DGIM 1484 Photoshop 2
Total Emphasis Credits

Animation Emphasis

- □ DGIM 1490 3D Animation Fundamentals 4
- DGIM 2520 3D Character Animation 4

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

- □ Goal 1: Communication7 ENGL 1711 Composition 1 (required) – 4 cr SPCH XXXX (required) (Goal 1 only) – 3 cr
- □ Goal 4: Mathematics/Logical Reasoning3 MATH 1730 College Algebra – 3 cr OR PHIL 1710 Logic – 3 cr
- Goal 5: History, Social Science &
- □ Goals 1-10 of the Minnesota Transfer Curriculum . . 4
- Select a minimum of 4 additional credits

Total Program Credits60

Program Start Dates

Fall, Spring

Course Sequence

The following course sequence is recommended; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

DGIM 1400 Introduction to Computer Graphics4CSCI 1450 Web Fundamentals/HTML4DGIM 1448 Flash 12Emphasis Course2ENGL 1711 Composition I4Total Semester Credits16
Second Semester DGIM 1449 Flash 2 2 DGIM 2560 Illustrator 4 SPCH 17XX Any Goal 1 Speech Course 3 Mn Transfer Curriculum 3 Emphasis Course 3 Total Semester Credits 15

Third Semester

Cr

Cr

DGIM 2569 Digital Portfolio Development2
DGIM 2587 Digital Video 12
Mn Transfer Curriculum
Emphasis Course4
Technical Elective4
Total Semester Credits
Fourth Semester
Fourth Semester DGIM 2588 Digital Video 22
DGIM 2588 Digital Video 22
DGIM 2588 Digital Video 22 Technical Elective2

Total Program Credits60

Minimum Program Entry Requirements Students entering this program must meet the

following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Elementary Algebra: Score of 76+ or grade of "C" or better in MATH 1510

Assessment Results and Prerequisites: Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites. 215A (7093)

Visualization Technology CERTIFICATE

Program Overview

This certificate program is a series of entry level courses that are part of the Visualization Technology AAS degree at Saint Paul College. This certificate option is available for students who may choose not to complete the entire AAS degree and gain some experience with courses used in computer graphics, particularly courses in the Adobe software suite.

Career Opportunities

The computer graphics field relates to many jobs in the multimedia area including but not limited to:

- Web Designer
- Computer Animator
- Computer Game Designer and Developer
- Multimedia Developer

Program Outcomes

- 1. Graduates will have basic skills to create documents with Adobe Illustrator.
- 2. Graduates will have basic skills to create web sites using Adobe Dreamweaver.
- 3. Graduates will have basic skills for using Adobe Photoshop as a creative media.
- 4. Graduates will have the basic skills to create basic animations.
- 5. Graduates of this certificate may choose to continue with the AA or AAS degree in Visualization or a 4-year transfer opportunity is available.

Program Advisor

Darren Pearson darren.pearson@saintpaul.edu

Course Offering Options

This program can be completed by using a combination of day, evening, and Saturday courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Recommended Equipment

Digital Camera, USB Drive, Adobe Software

Estimated Book Cost \$50 - \$75 per class

Program Requirements

 $\ensuremath{\boxtimes}$ Check off when completed

Course Cr
 DGIM 1400 Introduction to Computer Graphics 4 DGIM 1443 Dreamweaver 1
□ DGIM 1483 Photoshop 1
□ DGIM 2570 Digital Photography 12 Subtotal16 □ Technical Electives2
Any 2 credit DGIM or CSCI General Education Requirements3 (Select any ARTS course)

Total Program Credits 21

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

DGIM 1400 Introduction to Computer Graphics4
DGIM 1443 Dreamweaver 1
DGIM 1448 Flash 1
DGIM 1483 Photoshop 12
Total Semester Credits
Second Semester

DGIM 2560 Illustrator4DGIM 2570 Digital Photography 12Technical Elective2General Education Requirements3Total Semester Credits11

Total Program Credits	Total Program	Credits														.2	1
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Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

289C (7153)

Information is subject to change. This Program Requirements Guide is not a contract.

Computer Animation CERTIFICATE

Program Overview

The Computer Animation Certificate is intended to give students the skills needed to work as a digital animator. The classes required for this certificate will have students learning the most up-to-date animation and video software packages including Blender, Flash, Premiere Pro, After Effects and other applications. Intensive hands-on participation will be stressed in creating 3D models, animations, and scenes. Emphasis is placed on practical, real-world application of their skills. Upon certificate completion, students will have multiple short animation projects suitable for a portfolio or demo reel.

Career Opportunities

Many career opportunities exist in the computer animation field, particularly for individuals with extensive portfolios. Jobs exist in the video game industry, web design and advertising focused

on emerging technologies. Many computer animators begin their career as self-employed, freelancers, in order to expand their personal portfolio.

Program Outcomes

- 1. Graduates will have extensive knowledge and skills in computer animation using Blender.
- 2. Graduates will have knowledge and skills in computer animation using other various 3D animation tools.
- 3. Graduates will have knowledge and skills in basic video production.

Program Advisor

Darren Pearson darren.pearson@saintpaul.edu

Course Offering Options

This program can be completed by using a combination of day, evening, and Saturday courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Recommended Equipment

Digital Camera, USB Drive, Adobe Software

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

Course C	r
 DGIM 1490 3D Animation Fundamentals	4 4 2 2
Technical Electives	2

Total Program Credits18

Program Start Dates

Fall, Spring

Course Sequence

The following course sequence is recommended; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

DGIM 1490 3D Animation Fundame DGIM XXXX Technical Elective	
Total Semester Credits	6
Second Semester	
DGIM 2520 3D Character Animation	
DGIM 2587 Digital Video 1	
DGIM 2588 Digital Video 2	
Total Semester Credits	8
Third Semester	
DGIM 2704 3D Animation Capstone	
Total Semester Credits	4

Total Program	Credits	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	18	8

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

336C (7191)

Information is subject to change. This Program Requirements Guide is not a contract.

Web Design CERTIFICATE

Program Overview

This program prepares students for jobs in the exciting computer graphics field. Students will learn how to take an idea from concept through production including computer graphics and computer animation.

The student should be creative and have excellent communications skills. Students should exhibit qualities of patience and precision and should enjoy working both independently and on team projects.

Career Opportunities

The computer graphics field relates to many jobs in the multimedia area including but not limited to:

- Web Designer
- Web Developer

Program Outcomes

- 1. Graduates will have knowledge of front-end, web design software packages.
- 2. Graduates will have knowledge of back-end, web development software languages.
- 3. Graduates will have knowledge of usability, accessibility and search engine optimization practices.

Program Advisor

Darren Pearson darren.pearson@saintpaul.edu

Recommended Equipment USB Drive, Digital Camera, Adobe Software

Program Requirements

☑ Check off when completed

Course Cr
CSCI 1450 Web Fundamentals/HTML
□ CSCI 1470 Web Design
□ DGIM 1443 Dreamweaver 12 □ DGIM 1448 Flash 12
DGIM 2570 Digital Photography 1

Program Start Dates

Fall, Spring

Course Sequence

The following course sequence is recommended; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

CSCI 1450 Web Fundamentals/HTML4 DGIM 2570 Digital Photography 12 Total Semester Credits
Second Semester CSCI 1470 Web Design
Third Semester CSCI 2440 Client Side Programming 14 Total Semester Credits. 4

Total	Program	Credits																			1	8
iotai	riogram	creans	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠		•

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Requires additional education and/ or experience in the field in addition to assessment requirements

Assessment Results and Prerequisites: Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

178C (7113)

Information is subject to change. This Program Requirements Guide is not a contract.

2014 - 2015

Photography Entrepreneurship AAS DEGREE

Program Overview

This program prepares students for jobs in the exciting field of photography working for an existing company, starting their own company, or working as a freelance photographer. In the photography portion of the program the student will learn how to use their camera and the latest photo editing program (Adobe Photoshop CS6) to create almost any type of picture a client might want. In the business side of the program the student will learn how to create a business, manage employees, and manage a business along with learning negotiation skills and entrepreneurship resources.

To succeed in this program the student needs to be creative, have excellent communication skills, have patience, meet deadlines, be dependable and be able to work independently or within a team.

A digital camera is required for this program.

Career Opportunities

- Entry Level Photographer
- Studio Photographer
- Studio Owner
- Fine Art Photographer
- Sports Photographer
- Small Business Owner
- Freelance Photographer

Program Outcomes

- 1. Graduates will have knowledge of Adobe Photoshop CS6.
- 2. Graduates will have the knowledge of how to use their camera in a wide variety of circumstances.
- 3. Graduates will have the knowledge of how to create theme projects and present them.
- 4. Graduates will have the knowledge to create a wide variety of creative projects.
- 5. Graduates will have the knowledge of how to start and run a small business.
- 6. Graduates will have the business knowledge needed to manage a small business.
- 7. Graduates of this degree program may choose to continue their education and receive their 4-year degree.

Program Advisor

LeRoy Chandler leroy.chandler@saintpaul.edu

Required Equipment Digital Camera, USB Drive

Recommended Equipment/Software Adobe Master Suite CS6 Student Addition

Estimated Book Cost \$50 - \$150 per class

Program Requirements

 $\ensuremath{\boxtimes}$ Check off when completed

Course Cr
□ BTEC 1445 Business Communications
□ BUSN 2410 Critical Thinking for Decision Making2
BUSN 2455 Essentials of Entrepreneurship &
Small Business Management3
□ BUSN 2460 Entrepreneurship Resources 2
□ BUSN 2472 Business Negotiations
□ BUSN 2482 Entrepreneurship Capstone3
□ HMRS 1400 Human Resource Management3
□ DGIM 1483 Photoshop 1
□ DGIM 1484 Photoshop 2
□ DGIM 2570 Digital Photography 12
□ DGIM 2571 Digital Photography 22
□ DGIM 2575 Photoshop for Photographers3
□ DGIM 2576 Commercial Photography
□ DGIM 2577 Digital Presentations
□ DGIM 2578 Photographic Strategies
□ DGIM 2580 Advanced Digital Photography4
Subtotal

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

Cr

- □ Goal 1: Communication7 ENGL 1711 Composition 1 (required) – 4 cr SPCH XXXX (required) (Goal 1 only) – 3 cr

Total Program Credits 60

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact Program Advisor with questions.

First Semester

BTEC 1445 Business Communications
Second SemesterBUSN 2472 Business Negotiations3BUSN 2482 Entrepreneurship Capstone3HMRS 1400 Human Resource Management3DGIM 1483 Photoshop 12DGIM 2570 Digital Photography 12SPCH 17XX Any Goal 1 Speech Course3Total Semester Credits16
Third SemesterDGIM 1484 Photoshop 22DGIM 2571 Digital Photography 22DGIM 2575 Photoshop for Photographers3DGIM 2576 Commercial Photography3DGIM 2577 Digital Presentations3Mn Transfer Curriculum3Total Semester Credits16
Fourth SemesterDGIM 2578 Photographic StrategiesDGIM 2580 Advanced Digital Photography4Mn Transfer Curriculum6Total Semester Credits14
Total Program Credits60

Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites: Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

340A 7192A

Information is subject to change. This Program Requirements Guide is not a contract.

Digital Photography CERTIFICATE

Program Overview

This program prepares students for jobs in the exciting field of photography. Besides learning the leading photo editing program on the market today (Adobe Photoshop CS6) the student will learn how to use their camera to create almost any type of picture they desire. This course covers topics from understanding their camera, to a wide variety of photographic techniques preparing the student for any type of photographic opportunity they may have.

The student needs to be creative, have excellent communication skills, have patience, meet deadlines, and be able to work independently or as a team member.

A digital camera is required for this certificate program.

Career Opportunities

- Entry Level Photographer
- Studio Photographer
- Fine Art Photographer
- Freelance Photographer

Program Outcomes

- 1. Graduates will have knowledge of Adobe Photoshop CS6.
- 2. Graduates will have the knowledge of how to use their camera in a wide variety of circumstances.
- 3. Graduates will have the knowledge of how to create theme projects and present them.
- 4. Graduates will have the knowledge to create a wide variety of creative projects.
- 5. Graduates will have the knowledge and skill to demonstrate their creative talents through photography.
- 6. Graduates of this certificate program may choose to continue their education and work toward their 2 or 4-year degree.

Program Advisor

LeRoy Chandler leroy.chandler@saintpaul.edu

Required Equipment Digital Camera, USB Drive

Recommended Equipment/Software Adobe Master Suite CS6 Student Addition

Estimated Book Cost \$50 - \$70 per class

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

Course Cr
DGIM 1483 Photoshop 1 2 DGIM 1484 Photoshop 2 2 DGIM 2570 Digital Photography 1 2 DGIM 2571 Digital Photography 2 2 DGIM 2580 Advanced Digital Photography

Total Program Credits 16

Program Start Dates

Fall, Spring

Course Sequence

Please contact the program advisor for course sequence.

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Scorae of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Requires additional education and/ or experience in the field in addition to assessment requirements

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

321C (7170)

Information is subject to change. This Program Requirements Guide is not a contract.

Health Science Programs

Esthetics

Esthetician Spa AAS Degree (66 Credits)
Esthetician Medical Setting AAS Degree (60 Credits) 119
Esthetician Diploma (60 Credits)
Esthetician Certificate (27 Credits)
Esthetics Medical Setting Advanced Certificate
(28 Credits)
Esthetics for Cosmetologist Advanced Certificate
(12 Credits)
CIDESCO Readiness Advanced Certificate (30 Credits) 125

Health Information Technology and Medical Office Careers

Health Information Technology AAS Degree

(64 Credits)
Healthcare Informatics AAS Degree (60 Credits) 127
Medical Office Professional AAS Degree (60 Credits) 128
Medical Coding Diploma (34 Credits)130
Medical Office Certificate (20 Credits)
Medical Transcription/Healthcare Documentation
Specialist Certificate (30 Credits)

Health Unit Coordinator

Health Unit Coordinator Certificate (17 Credits) 134 Nursing Station Technician Certificate (25 Credits) 135

Health Sciences

Health Sciences Broad Field AS Degree (60 Credits) 136

Medical Laboratory Technician

Medical Laboratory Technician AAS Degree
(72 Credits)
Phlebotomy Technician Certificate (17 Credits) 139

Nursing Assistant/Home Health Aide

Nursing Assistant/Home Health Aide Certificate	
(5 Credits)	

Pharmacy Technician

Pharmacy Technician AAS Degree (60 Credits)1	42
Pharmacy Technician Diploma (35 Credits) 1	43

Practical Nursing

Respiratory Therapist

Respiratory Therapist AAS	S Dearee (78 Credits)	146
	Degree (, e ereans)	

Wellness and Fitness Careers

Clinical Sports Massage AAS Degree (66 Credits) 148
Massage Therapy Certificate (30 Credits)
Clinical Sports Massage Advanced Certificate
(23 Credits)
Personal Trainer AAS Degree (60 Credits)151
Personal Trainer Diploma (47 Credits)152
Personal Trainer Certificate (30 Credits)
Yoga Instructor Training Certificate (16 Credits)154

Esthetician Spa AAS DEGREE

Program Overview

Esthetician services include specialized work with skin care products, analysis of skin, skin exfoliation, massage techniques and facials. Students learn to apply makeup, provide temporary hair removal, and use machines designed to administer skin treatments.

The Esthetician Spa AAS Degree is designed for future employment in a spa/resort setting. This program also prepares the student for the CIDESCO examination.

Career Opportunities

After esthetician students complete 600 hours of skills and theory training and pass the written exam through the State designated testing service and skills certification, they are eligible for licensure through the Minnesota Board of Cosmetologist Examiners. Estheticians work in a variety of settings including salons, spas, fitness centers, as well as dermatologist, plastic surgeon's offices and hospitals. CIDESCO certification holders are able to license as an esthetician technician, certify as a massage therapist and license as a nail technician upon completion of clinic nail hours. Cross trained therapists are able to work in spas, medical offices, cruise ships and 5 star resorts.

Licensing or certification exams are independent of graduation requirements.

Program Outcomes

- 1. Graduates will be prepared to take the esthetician skills certification.
- 2. Graduates will be prepared to take the Minnesota State Esthetician written exam and state law test administered through the state designated testing service (access through www.bceboard.state.mn.us).
- 3. Graduates will have knowledge and skills in esthetician (skin) services.
- 4. Graduates will have knowledge and skills in salon operations focusing on skin services.
- 5. Graduates will possess knowledge and skills for personal care of the skin.
- 6. Graduates will be prepared for employment as an esthetician.
- 7. Graduates will have the knowledge and skills for work and life roles.
- 8. Graduates will have knowledge in cosmetic care product ingredients.
- 9. Graduates will be prepared to take the CIDESCO exam.
- 10. Graduates will have knowledge and skills in spa operations focusing on therapeutic skin and body services.
- 11. Graduates will be prepared for employment as a CIDESCO certification holder.

Program Faculty

Lyubov Babina lyubov.babina@saintpaul.edu Lisa Kimber lisa.kimber@saintpaul.edu Peg Flicek peg.flicek@saintpaul.edu

Program Requirements

 \blacksquare Check off when completed

□ Required Program Seminar

All Cosmetology, Esthetics and Nail Technician applicants must attend a program seminar prior to enrollment as a part-time or full-time student. Please call the Clinic receptionist at 651.846.1329 to reserve your space at a seminar. Seminar dates and times are posted online at www.saintpaul.edu/CosEsthSeminar

Course

Saint Paul College – A Community and Technical College Esthetician Program is a CIDESCO school. This means the program is allowed to prepare candidates for the CIDESCO examination.

Comite International d' Esthetique et de Cosmetologie e-mail: info@cidesco.com Web site: www.cidesco.com

Program Start Dates

Fall, Spring, Summer

Course Sequence

The course sequence listed on the back of this guide is recommended for a full-time student. Not all courses are offered during summer session.

Cosmetology Student Handbook/ Agreement Form

All new and returning students will need to access Desire2Learn (D2L) PRIOR to the first day of classes to read the Cosmetology student handbook. After you have read the handbook, you MUST print and sign Student Agreement Form, Hepatitis B Vaccination/Declination Form, Property and Equipment Form, and Rollabout Form and return them to your instructor on the FIRST DAY of class before you will be admitted to class. You will need to perform this task prior to the first day of each semester. Please direct questions to the assigned instructor of your first class.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Esthetician AAS

Cr

BS Allied Healthcare Management Saint Mary's University-Twin Cities Campus

See back of guide for Course Sequence

Minimum Program Entry Requirements Students entering this program must meet the

following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted to Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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Esthetician Spa AAS DEGREE (continued)

Course Sequence

The following sequence is recommended. Not all courses are offered during summer session.

First Semester

CHSN 1410 Preclinic Introduction (online) 4
This course is a prerequisite to or must be taken
concurrently with CHSN 1442, CHSN 1443,
CHSN 1445 and CHSN 1450
CHSN 1420 Body Systems & Diseases (online)4
This course is a prerequisite to or must be taken
concurrently with CHSN 1442, CHSN 1443,
CHSN 1445 and CHSN 1450
CHSN 1442 Clinic 1 for Estheticians4
CHSN 1443 Clinic 2 for Estheticians4
CHSN 1445 Cosmetic Chemistry &
Makeup Applications
This course is a prerequisite to CHSN 1450
CHSN 1450 Skin Analysis and Massage 4
Total Semester Credits24

Second Semester

BIOL 1760 Nutrition (meets Goal 3)
CHSN 1407 Preclinic Nail Care 3
HLTH 1410 Medical Terminology1
HLTH 1421 Anatomy & Physiology for the Somatic 4
MASS 1400 Introduction to Therapeutic Massage4
Goal 1: SPCH requirement 3
Total Semester Credits

Third Semester

MASS 1421 Massage Spa Techniques2
MASS 1422 Massage Clinical Techniques 4
MASS 1480 Massage Therapy Practicum 4
Total Semester Credits

Fourth Semester

Goal 1: ENGL 1711 Composition 1 4
CHSN 2411 CIDESCO Exam Student Prep
Offered summer semester only
Goal 5: History, Social Science, Behavioral Sciences . 4
Goal 6: Humanities and Fine Arts
Total Semester Credits14
Total Program Credits

Esthetician Medical Setting AAS DEGREE

Program Overview

Esthetician services include specialized work with skin care products, analysis of skin, skin exfoliation, massage techniques, and facials. Students learn to apply makeup, provide temporary hair removal, and to use machines designed to administer skin treatments.

The Esthetician Medical Setting AAS degree is designed for work in medical clinics or treatment centers.

Career Opportunities

After esthetician students complete 600 hours of skills and theory training and pass the written exam through the State designated testing service and skills certification, they are eligible for licensure through the Minnesota Board of Cosmetologist Examiners. Estheticians work in a variety of settings including salons, spas, fitness centers, as well as dermatologist, plastic surgeon's offices and hospitals.

Licensing or certification exams are independent of graduation requirements.

Program Outcomes

- 1. Graduate will be prepared to take the esthetician skills certification.
- 2. Graduates will be prepared to take the Minnesota State Esthetician written exam and state law test administered through the State designated testing service (access through www.bceboard.state.mn.us).
- 3. Graduates will have knowledge and skills in esthetician (skin) services.
- 4. Graduates will have knowledge and skills in salon operations focusing on skin services.
- 5. Graduates will possess knowledge and skills for personal care of the skin.
- 6. Graduates will be prepared for employment as an esthetician.
- 7. Graduates will have the knowledge and skills for work and life roles.
- 8. Graduates will have knowledge in cosmetic care product ingredients.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Esthetician AAS

BS Allied Healthcare Management Saint Mary's University-Twin Cities Campus

Program Faculty

Lyubov Babina	lyubov.babina@saintpaul.edu
Lisa Kimber	lisa.kimber@saintpaul.edu
Peg Flicek	peg.flicek@saintpaul.edu

Program Requirements

\blacksquare Check off when completed

- Required Program Seminar
 - All Cosmetology, Esthetics and Nail Technician applicants must attend a program seminar prior to enrollment as a part-time or full-time student. Please call the Clinic receptionist at 651.846.1329 to reserve your space at a seminar. Seminar dates and times are posted online at www.saintpaul.edu/CosEsthSeminar

Course	

□ CHSN 1410 Preclinic Introduction (online)4
□ CHSN 1420 Body Systems & Diseases (online) 4
CHSN 1442 Clinic 1 for Estheticians
□ CHSN 1443 Clinic 2 for Estheticians4
CHSN 1445 Cosmetic Chemistry & Makeup
Applications4
□ CHSN 1450 Skin Analysis & Massage4
□ CHSN 1510 Advanced Skin Treatments
□ CHSN 1512 Pharmaceutical Grade Chemical Peel 3
CHSN 1514 Legal Risk Management
for Estheticians 2
□ HLTH 1410 Medical Terminology
HLTH 1421 Anatomy & Physiology for the
Somatic Practitioner
Subtotal
General Education/MnTC Requirements Cr

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

ENGL 1711 Composition 1 (required) – 4 cr	
SPCH XXXX (required) – 3 cr	
Goal 3: Natural Sciences	. 7
BIOL 1760 Nutrition – 3 cr	
CHEM 1711 Principles of Chemistry – 4 cr	
Goal 5: History, Social Science and	
Behavioral Sciences	3
PSYC 1720 Psychology throughout the Lifespan	
□ Goal 6: Humanities & Fine Arts	3
□ Goals 1-10 of the Minnesota Transfer Curriculum	3
Select a minimum of 3 additional credits	
□ Goals 1-10 of the Minnesota Transfer Curriculum	

Total Program Credits60

Cosmetology Student Handbook/ Agreement Form

All new and returning students will need to access Desire2Learn (D2L) PRIOR to the first day of classes to read the Cosmetology student handbook. After you have read the handbook, you MUST print and sign Student Agreement Form, Hepatitis B Vaccination/Declination Form, Property and Equipment Form, and Rollabout Form and return them to your instructor on the FIRST DAY of class before you will be admitted to class. You will need to perform this task prior to the first day of each semester. Please direct questions to the assigned instructor of your first class.

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is required.

First Semester

Cr

First Semester	
Clinical experience conducted at our affiliate location CHSN 1410 Preclinic Introduction (online) 4 This course is a prerequisite to or must be taken concurrently with CHSN 1442, CHSN 1443, CHSN 1445 and CHSN 1450	
CHSN 1420 Body Systems & Diseases (online)4 This course is a prerequisite to or must be taken concurrently with CHSN 1442, CHSN 1443, CHSN 1445 and CHSN 1450	
CHSN 1442 Clinic 1 for Estheticians	
Applications	
Second Semester BIOL 1760 Nutrition (meets Goal 3	
Goal 1: SPCH 1720 Interpersonal Communication3 Total Semester Credits11	
Third Semester CHSN 1510 Advanced Skin Treatments (Online only) 3 CHSN 1512 Pharmaceutical Grade Chemical Peels (Online only)	
CHSN 1514 Legal Risk Management (Online only) 2 PSYC 1720 Psychology Throughout the Lifespan (meets Goal 5)	
Fourth SemesterCHEM 1711 Principles of Chemistry 14Goal 1: ENGL 1711 Composition 14Goal 6: Humanities and Fine Arts3Goals 1-10: General Education Electives3Total Semester Credits14	
Total Program Credits60	

Minimum Program Entry Requirements Students entering this program must meet the

following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted to Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites. 345A

Esthetician DIPLOMA

Program Overview

Esthetician services include specialized work with skin care products, analysis of skin, massage techniques and facials. Students learn to apply makeup, provide temporary hair removal and to use machines designed to administer skin treatments.

The Esthetic diploma program prepares the student for the CIDESCO examination.

Career Opportunities

After esthetician students complete 600 hours of skills and theory training and pass the written exam through the State designated testing service and skills certification, they are eligible for licensure through the Minnesota Board of Cosmetologist Examiners. Estheticians work in a variety of settings including salons, spas, fitness centers, dermatologist, plastic surgeon offices and hospitals.

CIDESCO certification holders are able to license as an esthetician technician, certify as a massage therapist, and license as a nail technician upon completion of clinic nail hours. Cross trained therapists are able to work in Spas, Medical Offices, Cruise Ships and 5 Star Resorts.

Licensing or certification exams are independent of graduation requirements.

Program Outcomes

- 1. Graduates will be prepared to take the esthetician skills certification.
- Graduates will be prepared to take the Minnesota State Esthetician written exam and state law test administered through the state designated testing service (access through www.bceboard.state.mn.us).
- 3. Graduates will have knowledge and skills in esthetician (skin) services.
- 4. Graduates will have knowledge and skills in salon operations focusing on skin services.
- 5. Graduates will possess knowledge and skills for personal care of the skin.
- 6. Graduates will be prepared for employment as an esthetician.
- 7. Graduates will have the knowledge and skills for work and life roles.
- 8. Graduates will have knowledge in cosmetic care product ingredients.
- 9. Graduates will be prepared to take the CIDESCO exam.
- 10.Graduates will have knowledge and skills in spa operations focusing on therapeutic skin and body services.
- 11.Graduates will be prepared for employment as a CIDESCO certification holder.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

Lyubov Babina lyubov.babina@saintpaul.edu Peg Flicek peg.flicek@saintpaul.edu Lisa Kimber lisa.kimber@saintpaul.edu

Textbook and Supply Costs

Students should expect to spend approximately \$1,800.00 for books and supplies. This cost is beyond the cost of tuition and fees. In addition, there is a fee to take the licensure exam.

Be prepared to purchase all Esthetics kits with the instructor on the second day of class. Financial aid must have been completed.

CIDESCO Certification Exam

Graduates of this diploma program are eligible to take the CIDESCO certification exam. The cost of this exam is approximately \$415.00. CHSN 2411 CIDESCO Exam Student Preparation class is offered spring semester only. The CIDESCO exam is offered spring semester only.

The Esthetician Diploma will meet the criteria for the CIDESCO exam requirement of 1200 hours of training in skin, massage and nail services.

The CIDESCO examination includes:

- a facial examination
- a body examination
- a waxing examination
- a make-up examination
- a tinting examination
- a massage examination
- an additional subject, and
- a written examination.

Program Start Dates

Fall, Spring, Summer

Cosmetology Student Handbook/ Agreement Form

All new and returning students will need to access Desire2Learn (D2L) prior to the first day of classes to read the Cosmetology student handbook. After you have read the handbook, you must print and sign Student Agreement Form, Hepatitis B Vaccination/Declination Form, Property and Equipment Form, and Rollabout Form and return them to your instructor on the first day of class before you will be admitted to class. You will need to perform this task prior to the first day of each semester. Please direct questions to the assigned instructor of your first class.

> See Program Requirements and Course Sequence on back

CIDESCO

Saint Paul College – A Community and Technical College Esthetician Program is a CIDESCO school. This means the program is allowed to prepare candidates for the CIDESCO examination.

CIDESCO is the World's Major International Beauty Therapy Association:

- \cdot Founded in 1946 with its Head Office in Zurich, Switzerland.
- CIDESCO is represented in over 37 countries. • The CIDESCO Diploma is the world's most
- prestigious qualification in the field of Aesthetics and Beauty Therapy.
- Since 1957, the CIDESCO qualification has set standards that have been initiated over the five continents of the globe.

Comite International d' Esthetique et de Cosmetologie e-mail: info@cidesco.com Web site: www.cidesco.com

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade "C" or better in ENGL 1410

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

222D (7172)



Esthetician DIPLOMA (continued)

Program Requirements

☑ Check off when completed

Required Program Seminar All Cosmetology, Esthetics and Nail Technician applicants must attend a program seminar prior to enrollment as a part-time or full-time student. Please call the Clinic receptionist at 651.846.1329 to reserve your space at a seminar. Seminar dates

and times are posted online at www.saintpaul.edu/CosEsthSeminar.

Course Sequence

The following sequence is required. Not all courses are offered each semester. First Semester CHSN 1410 Preclinic Introduction (online)4 This course is a prerequisite to or must be taken concurrently with CHSN 1442, CHSN 1443,

CHSN 1445 and CHSN 1450
CHSN 1420 Body Systems & Diseases (online)4
This course is a prerequisite to or must be taken
concurrently with CHSN 1442, CHSN 1443,
CHSN 1445 and CHSN 1450
CHSN 1442 Clinic 1 for Estheticians
CHSN 1443 Clinic 2 for Estheticians
CHSN 1445 Cosmetic Chemistry & Makeup
Applications
CHSN 1450 Skin Analysis and Massage4
Total Semester Credits
Second Semester CHSN 1461 Clinic 1 for Nail Technicians
CHSN 1407 Preclinic Viai Care
HLTH 1410 Medical Terminology1
HLTH 1421 Anatomy & Physiology for the
Somatic Practitioner
HLTH 1460 Nutrition for the Health Professions2
MASS 1400 Introduction to Therapeutic Massage 4
Total Semester Credits
Third Semester
CHSN 2411 CIDESCO Exam Student Prep3
This course is offered only Summer Term
HLTH 1425 Clinical Applications in Kinesiology 3
MASS 1421 Massage Spa Techniques2
MASS 1422 Massage Clinical Techniques4
MASS 1480 Massage Therapy Practicum
General Education Requirements
Total Program Credits 60

Esthetician CERTIFICATE

Program Overview

Esthetician services include specialized work with skin care products, analysis of skin, skin exfoliation, massage techniques, and facials. Students learn to apply makeup, provide temporary hair removal, and use machines designed to administer skin treatments.

Career Opportunities

After esthetician students complete 600 hours of skills and theory training and pass the written exam through the State designated testing service and skills certification, they are eligible for licensure through the Minnesota Board of Cosmetologist Examiners. Estheticians work in a variety of settings including salons, spas, fitness centers, as well as dermatology and plastic surgeon's offices and hospitals.

Licensing or certification exams are independent of graduation requirements.

Program Outcomes

- 1. Graduates will be prepared to take the esthetician skills certification.
- 2. Graduates will be prepared to take the Minnesota State Esthetician written exam and state law test administered through the state designated testing service (access through www.bceboard.state.mn.us).
- 3. Graduates will have knowledge and skills in esthetician (skin) services.
- 4. Graduates will have knowledge and skills in salon operations focusing on skin services.
- 5. Graduates will possess knowledge and skills for personal care of the skin.
- 6. Graduates will be prepared for employment as an esthetician.
- 7. Graduates will have the knowledge and skills for work and life roles.
- 8. Graduates will have knowledge in cosmetic care product ingredients.

Saint Paul College – A Community and Technical College Esthetician Program is a CIDESCO school. This means the program is allowed to prepare candidates for the CIDESCO examination.

Comite International d' Esthetique et de Cosmetologie e-mail: info@cidesco.com Web site: www.cidesco.com



Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

Lyubov Babina lyubov.babina@saintpaul.edu Peg Flicek peg.flicek@saintpaul.edu Lisa Kimber lisa.kimber@saintpaul.edu

Program Length

Full-time students can complete the program in one semester.

Part-time and Full-time Options

Full-time students can complete the program in one semester by attending 32 hours per week (Tuesday – Friday, 8:00am–4:30pm).

Part-time students should take at least 12 credits per semester for 2 semesters. Day part-time is available. Consult with esthetics instructor to develop a plan.

Textbook and Supply Costs

Students should expect to spend approximately \$1,800.00 for books and supplies. This cost is beyond the cost of tuition and fees. In addition, there is a fee to take the licensure exam.

Items can be purchased in the College Bookstore or at a location of the student's choosing. Financial aid must have been completed.

Program Requirements

☑ Check off when completed

Required Program Seminar All Cosmetology, Esthetics and Nail Technician applicants must attend a program seminar prior to enrollment as a part-time or full-time student. Please call the Clinic receptionist at 651.846.1329 to reserve your space at a seminar. Seminar dates and times are posted online at www.saintpaul.edu/CosEsthSeminar

Course Cu	
□ CHSN 1410 Preclinic Introduction (online)4	
□ CHSN 1420 Body Systems & Diseases (online)4	
CHSN 1442 Clinic 1 for Estheticians	
CHSN 1443 Clinic 2 for Estheticians	
CHSN 1445 Cosmetic Chemistry & Makeup	
Applications4	
CHSN 1450 Skin Analysis & Massage	
Subtotal	
General Education Requirements	
SPCH 1720 Interpersonal Communication	
(recommended)	
□ Select from the following electives as needed:	
CHSN 1551 Salon Ops 1 for Estheticians1	
CHSN 1552 Salon Ops 2 for Estheticians	
CHSN 1553 Salon Ops 3 for Estheticians	

Total Program Credits 27

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is required. Not all courses are offered during summer session.

1 Semester – Day Full-time

i Semester – Day i un-time
CHSN 1410 Preclinic Introduction (online)4
This course is a prerequisite to or must be taken
concurrently with CHSN 1442, CHSN 1443,
CHSN 1445 and CHSN 1450
CHSN 1420 Body Systems & Diseases (online)4
This course is a prerequisite to or must be taken
concurrently with CHSN 1442, CHSN 1443,
CHSN 1445 and CHSN 1450
CHSN 1442 Clinic 1 for Estheticians4
CHSN 1443 Clinic 2 for Estheticians4
CHSN 1445 Cosmetic Chemistry and Makeup
Applications
This course is a prerequisite to CHSN 1450
CHSN 1450 Skin Analysis and Massage4
General Education Requirements
Total Semester Credits

Total Program Credi	ts.	•			•	•	•	•	•	•	•	•	•	•	•	•	2	27
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Cosmetology Student Handbook/ Agreement Form

All new and returning students will need to access Desire2Learn (D2L) prior to the first day of classes to read the Cosmetology student handbook. After you have read the handbook, you must print and sign Student Agreement Form, Hepatitis B Vaccination/Declination Form, Property and Equipment Form, and Rollabout Form and return them to your instructor on the first day of class before you will be admitted to class. You will need to perform this task prior to the first day of each semester. Please direct questions to the assigned instructor of your first class.

Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

056C (7042)

Esthetics Medical Setting Advanced Certificate

Program Overview

Esthetician services in a medical setting include work with skin care products, analysis of skin, skin exfoliation, facials, pre and post treatment skin care, and home product recommendation. The use of Advanced Skin Treatments, Pharmaceutical Grade Chemical Peels and Risk Management for this industry will be covered. This advanced certificate is designed for the licensed esthetician or licensed cosmetologist who will seek employment in a medical setting.

Career Opportunities

Licensed estheticians and licensed cosmetologists completing this advanced certificate are able to work in a plastic surgeons office, a dermatologist's office, medical spas within 5 star resorts, hotels, and fitness centers.

Program Outcomes

- 1. Graduates will have knowledge and skills in esthetician services.
- 2. Graduates will have knowledge in cosmetic product ingredients.
- 3. Graduates will have knowledge and skills in Advanced Skin Treatments.
- 4. Graduates will have knowledge of Legal Risk Management.
- 5. Graduates will have knowledge of Pharmaceutical Grade Chemical Peels.
- 6. Graduates will have knowledge and skills for work and life roles.
- 7. Graduates will be prepared for employment in a medical setting.

Program Faculty

Lyubov Babina lyubov.babina@saintpaul.edu Lisa Kimber lisa.kimber@saintpaul.edu Peg Flicek peg.flicek@saintpaul.edu

Textbook and Supply Costs

Students should expect to spend approximately \$1800.00 for books and supplies. This cost is beyond the cost of tuition and fees. Items can be purchased in the College Bookstore or at a location of the student's choosing. Financial aid must have been completed.

Program Requirements

☑ Check off when completed

□ Required Program Seminar

All Cosmetology, Esthetics and Nail Technician applicants must attend a program seminar prior to enrollment as a part-time or full-time student. Please call the Clinic receptionist at 651.846.1329 to reserve your space at a seminar. Seminar dates and times are posted online at www.saintpaul.edu/CosEsthSeminar

Course Cr BIOL 1760 Nutrition 3 CHSN 1442 Clinic 1 for Estheticians. 4 CHSN 1445 Cosmetic Chemistry & Makeup Applications Makeup Applications 4 CHSN 1450 Skin Analysis & Massage. 4 CHSN 1510 Advanced Skin Treatments. 3 CHSN 1512 Pharmaceutical Grade 3 CHSN 1514 Legal Risk Management 6 for Estheticians 2 HLTH 1410 Medical Terminology 1 HLTH 1421 Anatomy & Physiology for the Somatic Practitioner.

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended. Not all courses are offered during summer session.

Full-time students can complete the program in two semesters.

First Semester

CHSN 1442 Clinic 1 for Estheticians4
CHSN 1445 Cosmetic Chemistry & Makeup
Applications4
CHSN 1450 Skin Analysis & Massage
CHSN 1514 Legal Risk Management for Estheticians
(online)2
Total Semester Credits
Second Semester
BIOL 1760 Nutrition
HLTH 1410 Medical Terminology1
HLTH 1421 Anatomy & Physiology for the
Somatic Practitioner
CHSN 1510 Advanced Skin Treatments (online)3
CHSN 1512 Pharmaceutical Grade Chemical Peel
(online)3
Total Semester Credits14

Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ or grade of "C" or better in ENGL 1410

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted to Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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Information is subject to change. This Program Requirements Guide is not a contract.

2014 – 2015

Esthetics for Cosmetologist Advanced Certificate

Program Overview

This certificate will provide advanced education for the licensed cosmetologist who would like to expand their knowledge of skin care services. Certificate can be completed within one semester. **Program enrollment requires a current Minnesota Cosmetology license.**

Career Opportunities

The licensed cosmetologist would now be able to seek employment in a setting specializing in skin care. Employment opportunities include: salons, spas, fitness centers, dermatology and plastic surgeon's offices and hospitals.

Program Outcomes

- 1. Graduates will have accrued an additional 320 hours of education focused on skin care.
- 2. Graduates will have demonstrated knowledge of skin care services.
- 3. Graduates will have demonstrated practical application of skin care services.
- 4. Graduates will have knowledge of cosmetic product ingredients.
- 5. Graduates will be prepared for employment offering skin care services.

Program Faculty

Lyubov Babina lyubov.babina@saintpaul.edu Lisa Kimber lisa.kimber@saintpaul.edu Peg Flicek peg.flicek@saintpaul.edu

Textbook and Supply Costs

Students should expect to spend approximately \$1800.00 for books and supplies. This cost is beyond the cost of tuition and fees. Items can be purchased in the College Bookstore or at a location of the student's choosing. Financial aid must have been completed.

Program Requirements

☑ Check off when completed

□ Required Program Seminar

All Cosmetology, Esthetics and Nail Technician applicants must attend a program seminar prior to enrollment as a part-time or full-time student. Please call the Clinic receptionist at 651.846.1329 to reserve your space at a seminar. Seminar dates and times are posted online at www.saintpaul.edu/CosEsthSeminar

Total Program Credits12

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended.

Full-time students can complete the program in one semester.

First Semester

Total Program Credits12
CHSN 1450 Skin Analysis & Massage
Applications
CHSN 1445 Cosmetic Chemistry & Makeup
CHSN 1442 Clinic 1 for Estheticians

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ or grade of "C" or better in ENGL 1410

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted to Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites. 365C

Information is subject to change. This Program Requirements Guide is not a contract.

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2014 – 2015

CIDESCO Readiness Advanced certificate

Program Overview

This advanced certificate is designed for the licensed esthetician or licensed cosmetologist who wants to examine for the International CIDESCO certification. It provides the course work to support the CIDESCO exam prep class and CIDESCO examination. With CIDESCO certification, the licensed esthetician is able to complete a massage program, certify as a massage therapist, complete a nail technician program and obtain a nail technician license. CIDESCO is the world's largest major International Beauty Association. **Program enrollment requires a current Minnesota Cosmetology or Esthetics license.**

Career Opportunities

The CIDESCO certification holder is cross trained and able to offer potential employers, skills in esthetics, massage therapy, body assessment and treatment and nail care. Cross trained therapists are able to work in spas, medical offices, fitness centers, 5 star resort spas, and on cruise ships.

Program Outcomes

- 1. Graduates will have knowledge and skills in esthetician services.
- 2. Graduates will have knowledge and skills needed for body assessment and body treatments.
- 3. Graduates will have knowledge and skills to assist clients with diet and exercise.
- 4. Graduates will have knowledge in cosmetic product ingredients.
- 5. Graduates will have knowledge and skills for work and life roles.
- 6. Graduates will have determined a topic for the CIDESCO special project.
- Graduates will have prepared their CIDESCO special project for presentation during the exam.
- 8. Graduates will be prepared to take the International CIDESCO practical and written exam.

Program Faculty

Lyubov Babina lyubov.babina@saintpaul.edu Lisa Kimber lisa.kimber@saintpaul.edu Peg Flicek peg.flicek@saintpaul.edu

Program Requirements

 \blacksquare Check off when completed

Required Program Seminar

All Cosmetology, Esthetics and Nail Technician applicants must attend a program seminar prior to enrollment as a part-time or full-time student. Please call the Clinic receptionist at 651.846.1329 to reserve your space at a seminar. Seminar dates and times are posted online at www.saintpaul.edu/CosEsthSeminar

Course

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Ц	BIOL 1760 Nutrition
	CHSN 1407 Preclinic Nail Care
	CHSN 1442 Clinic 1 for Estheticians
	CHSN 1445 Cosmetic Chemistry &
	Makeup Applications
	CHSN 1450 Skin Analysis & Massage4
	CHSN 2411 CIDESCO Exam Student Preparation3
	Class offered only summer term
	HLTH 1410 Medical Terminology
	HLTH 1421 Anatomy & Physiology for the
	Somatic Practitioner4
	MASS 1400 Introduction to Therapeutic Massage 4

Textbook and Supply Costs

Students should expect to spend approximately \$1800.00 for books and supplies. This cost is beyond the cost of tuition and fees. Items can be purchased in the College Bookstore or at a location of the student's choosing. Financial aid must have been completed.

Saint Paul College – A Community and Technical College Esthetician Program is a CIDESCO school. This means the program is allowed to prepare candidates for the CIDESCO examination.

Comite International d' Esthetique et de Cosmetologie e-mail: info@cidesco.com Web site: www.cidesco.com



Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended. Not all courses are offered during summer session.

Full-time students can complete the program in two semesters.

First Semester

Cr

CHSN 1442 Clinic 1 for Estheticians4 CHSN 1445 Cosmetic Chemistry & Makeup
Applications
CHSN 1450 Skin Analysis & Massage
BIOL 1760 Nutrition
Total Semester Credits
Second Semester
CHSN 1407 Preclinic Nail Care
CHSN 2411 CIDESCO Exam Student Prep
HLTH 1410 Medical Terminology1
HLTH 1421 Anatomy & Physiology for the
Somatic Practitioner
MASS 1400 Introduction to Therapeutic Massage 4
Total Semester Credits

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ or grade of "C" or better in ENGL 1410

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted to Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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Information is subject to change. This Program Requirements Guide is not a contract.

Health Information Technology AAS DEGREE

The Health Information Technology AAS Degree Program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (www.cahiim.org).

Program Overview

Health Information Technicians play a vital role in the health care industry by participating in the creation, completion, distribution and retention of medical record documentation according to policies and procedures outlined by several regulating bodies such as the Joint Commission on Accreditation of Healthcare Organization (JCAHO) and Medicare.

Individuals enrolled in the program will obtain a broad body of knowledge that will allow them to become employed in many capacities within a health information department. Some of the positions include such tasks as: release of information, various registries, incomplete chart room, processing of medical documentation, coding and abstracting, and may include supervisory or leadership roles based on skill and ability. Students who successfully complete the Health Information Technology degree are allowed to sit for the national examination given by the American Health Information Management Association to become a Registered Health Information Technician upon successful completion of the examination.

Career Opportunities

Graduates of the Health Information Technology degree will find positions in various health care settings such as private physician offices, clinics, specialty clinics, hospitals, long-term care facilities, and rehabilitation facilities. Employment can also be found in government offices, the insurance industry, dental and chiropractic clinics, and information technology suppliers.

Program Outcomes

- 1. Graduates will apply policies and procedures to assure the accuracy of health information.
- 2. Graduates will use specialized software in the completion of HIM processes such as record tracking, release of information, coding, grouping, registries, billing, and quality improvement.
- 3. Graduates will apply procedure codes using ICD-10 PCS & CM and CPT/HCPCS.
- Graduates will apply policies and procedures to comply with the changing regulations among various payment systems for healthcare services.
- 5. Graduates will possess a knowledge base which will allow them to find employment in the health care industry.
- 6. Graduates of a Commission on Accreditation of Health Informatics and Information Management accredited Health Information Technology program are eligible to apply to write the American Health Information Management Association, Registered Health Information Technician (RHIT) certificate examination.

Program Advisor

Rosalie Jaenisch rosalie.jaenisch@saintpaul.edu Kelly Dale kelly.dale@saintpaul.edu

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, and Saturday courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Graduation Standard

Students enrolled in the HIT program must pass all classes with a grade of "C" or better.

Program Requirements

Check off when completed

Course

□ BTEC 1421 Business Information Applications 13
□ BUSN 1480 Business Career Resources 1
□ MEDS 1420 Health Information Foundations3
□ MEDS 1470 Anatomy & Physiology/Medical Office 3
□ MEDS 1480 Medical Terminology
□ MEDS 1560 Computerized Health Information 3
□ MEDS 1562 Billing and Reimbursement2
□ MEDS 1570 Human Disease
□ MEDS 2430 Pharmacology for the Medical Office 2
□ MEDS 2430 Alternative Health Record Systems2
□ MEDS 2432 Alternative Health Record Systems2
5
Health Information2
□ MEDS 2440 Supervision of Health Information 2
□ MEDS 2461 ICD-10-CM Coding
□ MEDS 2462 ICD-10-PCS Coding4
□ MEDS 2470 CPT-4 Coding
MEDS 2480 Advanced Coding
MEDS 2510 Quality Management and
Health Statistics
□ MEDS 2590 HIT Internship/Capstone Project3
Subtotal
General Education/MnTC Requirements Cr

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

- □ Goal 1: Communication7 ENGL 1711 Composition 1 (required) – 4 cr SPCH XXXX (required) (Goal 1 only) – 3 cr
- Goal 4: Mathematical/Logical Reasoning □ Goal 5: History, Social Science and

Total Program Credits 64

Information is subject to change. This Program Requirements Guide is not a contract.

Program Start Dates

Fall, Spring

Application Deadline

Application deadline is February 1

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Health Information Technology AAS

Health Information Management College of St. Scholastica

Course Sequence

Cr

The course sequence listed on the back of this guide is recommended for a full-time student; however, this sequence is not required. Not all courses are offered each semester

See back of guide for Course Sequence



Minimum Program Entry Requirements Students entering this program must meet

the following minimum program entry requirements prior to beginning the program:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 78+ on Reading Comprehension or grade of "C" or better in ENGL 1415

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0741

Keyboarding Skills: Minimum of 40 WPM with 3 errors or less or a grade of "C" or better in BTEC 1400.

Computer Skills: Basic computer skills such as word processing, spreadsheets, and Internet usage or a grade of "C" or better in BTEC 1418.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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2014 – 2015

Health Information Technology AAS DEGREE (continued)

Course Sequence

Recommended course sequence is dependent upon which Semester/Term the student starts the Health Information Technology AAS Degree program. Follow the appropriate sequence listed as indicated below.

All classes must be successfully completed with a grade of $"\ensuremath{\mathsf{C}}"$ or better.

First Semester

BTEC 1421 Business Information Applications 13
MEDS 1420 Health Information Foundations 3
MEDS 1470 Anatomy & Physiology/Medical Office3
MEDS 1480 Medical Terminology
General Education Course – SPCH XXXX
Total Semester Credits

Second Semester

MEDS 1560 Computerized Health Information3
MEDS 1570 Human Disease
MEDS 2430 Pharmacology for the Medical Office 2
MEDS 2470 CPT-4 Coding
General Education Course – ENGL 17114
General Education Course (Goal 3 or Goal 4)3
Total Semester Credits

Third Semester

MEDS 2432 Alternative Health Record Systems 2
MEDS 2434 Legal Aspects of Health Information2
MEDS 2440 Supervision of Health Information2
MEDS 2461 ICD-10-CM Coding
MEDS 2462 ICD-10-PCS Coding4
General Education Course (Goal 5)3
Total Semester Credits16

Fourth Semester

BUSN 1480 Business Career Resources1	
MEDS 1562 Billing and Reimbursement2	
MEDS 2480 Advanced Coding	
MEDS 2510 Quality Management and	
Health Statistics	
MEDS 2590 HIT Internship/Capstone Project3	
General Education Course (Goal 6)3	
Total Semester Credits	
Total Program Credits 64	

Total Program Credits	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	. (64	ļ
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Program Overview

The Healthcare Informatics program integrates education from health information, computer science and information technology.

Healthcare informatists work and support healthcare organizations in a multifaceted methodology by providing support directly related to industry practices and procedures regarding complex electronic health record systems.

Responsibilities may include supporting tasks and roles relating to data analysis, database design and administration, support of numerous software applications, implementation of data standards, knowledge of interoperability, and maintenance of clinical decision support protocols supported by evidence based medicine, routine system upgrades and preservation, system architecture, hardware, system networking, and legal knowledge to support information privacy and security.

Career Opportunities

Individuals enrolled in the program will obtain a broad body of knowledge of health information, computer science, and information technology that will allow them to become employed in many capacities within a healthcare system. Employment opportunities may include: data and information technology support personnel, analytics staff, data standards personnel, documentation integrity specialists, health information privacy and security personnel, electronic health record trainer or educator, implementation and data systems upgrade specialist and may include supervisory or leadership roles based on skill and ability.

Graduates of the Healthcare Informatics degree will find positions in various health care settings such as private physician offices, clinics, specialty clinics, hospitals, long-term care facilities, and rehabilitation facilities. Employment can also be found in government offices, the insurance industry, dental and chiropractic clinics, and information technology suppliers/vendors.

Program Outcomes

- Graduates will apply policies and procedures to assure the accuracy and integrity of information management based systems directly related to healthcare.
- 2. Graduates will use specialized software in the completion of health informatics and information management processes that include, working with practice management systems, data abstraction and analytics, record tracking, release of information, registries, and quality improvement initiatives.
- Graduates will apply knowledge and skill set 3. to manage and maintain healthcare related information systems.

- 4. Graduates will apply policies and procedures to comply with the changing regulations among various information systems within healthcare.
- 5. Graduates will possess a knowledge base, which will allow them to find employment in the healthcare industry.

Program Advisor

Jennifer Anglin jennifer.anglin@saintpaul.edu

Program Requirements

☑ Check off when completed

Course Cr
□ MEDS 1420 Health Information Foundations3
MEDS 1470 Anatomy & Physiology/
Medical Office3
□ MEDS 1480 Medical Terminology3
□ MEDS 1560 Computerized Health Information 3
\square MEDS 2432 Alternative Health Record Systems2
MEDS 2434 Legal and Ethical Aspects of
Health Information
□ MEDS 2440 Supervision of Health Information 2
□ MEDS 2510 Quality Management and
Health Statistics
□ CSCI 1410 Computer Science and
Information Systems
□ CSCI 1440 Networking Fundamentals4 □ CSCI 1523 Introduction to Computing and
Programming Concepts
□ CSCI1550 Database Management Fundamentals 4
□ CSCI 2410 Management Information Systems3
□ CSCI 2570 Machine Architecture and
Organization
Subtotal
General Education/MnTC Requirements Cr

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course List
for each Goal Area
Goal 1: Communication7
ENGL 1711 Composition 1 (required) – 4 cr
SPCH XXXX (required) (Goal 1 only) – 3 cr
□ Goal 4: Mathematical/Logical Reasoning3
MATH 1730 College Algebra – 3 cr
□ Goal 5: History, Social Science and
Behavioral Sciences
□ Goal 6: Humanities and Fine Arts
General Education Requirements16
Total Program Credits

Information is subject to change. This Program Requirements Guide is not a contract.

Program Start Dates

Fall, Spring

Course Sequence

The Course Sequence listed on the back of this guide is recommended for full-time and part-time students. Students should consult with the program advisor to develop an appropriate educational plan.

See back of guide for Course Sequence

2014 - 2015

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 78+ or grade of "C" or better in ENGL 1415

Elementary Algebra: Score of 76+ or grade of "C" or better in MATH 1510

Keyboarding Skills: Minimum of 40 WPM with 3 errors or less or a grade of "C" or better in BTEC 1400.

Computer Skills: Basic computer skills such as word processing, spreadsheets, and Internet usage or a grade of "C" or better in BTEC 1418.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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Healthcare Informatics AAS DEGREE (continued)

Course Sequence

for Full-Time Schedule

The following sequence is recommended for full-time students. Students should consult with the program advisor to develop an appropriate educational plan.

All classes must be successfully completed with a grade of $\ensuremath{"C"}$ or better.

Fall Semester (Year 1)

MEDS 1420 Health Information Foundations
MeDS 14/0 Antonny and Hystology of the Medical Office
SPCH XXXX (Goal 1)
Spring Semester (Year 1) MEDS 1560 Computerized Health Information OSCI 1523 Introduction to Computing and Programming Concepts Programming Concepts CSCI 1550 Database Management Fundamentals 4 ENGL 1711 Composition 1 Total Semester Credits
Fall Semester (Year 2)MEDS 2432 Alternative Health Record Systems.MEDS 2440 Supervision of Health InformationCSCI 2410 Management Information Systems.CSCI 2570 Machine Architecture and Organization.MATH 1730 College Algebra (Goal 4)Total Semester Credits.14
Spring Semester (Year 2) MEDS 2434 Legal and Ethical Aspects of Health Information
Humanities and Fine Arts (MnTC) (Goal 6) 3 Total Semester Credits 15
Total Program Credits

Course Sequence

for Part-Time Schedule

The following sequence is recommended for part-time students. Students should consult with the program advisor to develop an appropriate educational plan.
All classes must be successfully completed with a grade of $\ensuremath{"C"}$ or better.
Fall Semester (Year 1) MEDS 1470 Anatomy and Physiology of the Medical Office
Spring Semester (Year 1) MEDS 1420 Health Information Foundations SCI 1523 Introduction to Computing and Programming Concepts PCH XXXX (Goal 1) SPCH Semester Credits
Fall Semester (Year 2)MEDS 1560 Computerized Health InformationMEDS 2432 Alternative Health Record Systems2 ENGL 1711 Composition 14 Total Semester Credits9
Spring Semester (Year 2) MEDS 2434 Legal and Ethical Aspects of Health Information CSCI 1550 Database Management Fundamentals MATH 1730 College Algebra (Goal 4) Total Semester Credits
Fall Semester (Year 3) MEDS 2440 Supervision of Health Information
Spring Semester (Year 3) MEDS 2510 Quality Management and Health Statistics. CSCI 1440 Networking Fundamentals Humanities and Fine Arts (MnTC) (Goal 6) Total Semester Credits.
Total Program Credits 60

Medical Office Professional AAS DEGREE

Program Overview

Medical Office Professionals are critical to the support of clinical staff in the health care industry. Physicians, nurses and other direct patient-contact personnel rely on well-trained medical office professionals to assist them in the creation, maintenance, and retention of quality medical documentation based on patient care. The medical office professional's job may include transcribing medical documents, creating and processing correspondence, scheduling patient appointments, scanning documents into digital health records, releasing patient information, collecting or abstracting medical data, understanding reimbursement methodologies, meeting physician documentation needs, and other related duties.

Applicants should possess excellent communication skills, meticulous attention to detail, good spelling, finger dexterity, and extreme accuracy in their work. Candidates considering this field should be comfortable reading and analyzing data for long periods of time, listening to dictated material for extended periods, assisting the patient documentation needs, and working on an independent basis.

Career Opportunities

Medical Office Professionals enjoy salaries in the top bracket of office professionals. Some may advance to office supervisors or managers with further education; and some may develop their own business based on their medical office specialty, such as transcription or coding.

The Medical Office Professional may work in a physician's office, surgery center, specialty clinic, hospital, insurance company, government agency, research foundation, long-term care facility, dental office, consulting firm, rehabilitation center or other health care facility.

Program Outcomes

- 1. Graduates will possess the knowledge and skills needed for employment as a Medical Office Professional.
- 2. Graduates will be proficient in the use of computer software applications, including advanced spreadsheet and database knowledge.
- 4. Graduates will possess an understanding of medical terminology, patient confidentiality including HIPAA privacy rules, and will be able to professionally interact with healthcare providers and patients.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Advisor

Jen Anglin jennifer.anglin@saintpaul.edu

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, and Saturday courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

 \blacksquare Check off when completed

All classes must be successfully completed with a grade of "C" or better.

Course Cr
 BTEC 1421 Business Information Applications 13 BTEC 1423 Business Information Applications 24 BTEC 2410 Business Procedures4 BUSN 1410 Introduction to Business3 BUSN 1480 Business Career Resources1 MEDS 1420 Health Information Foundations3 MEDS 1470 Anatomy & Physiology/
Medical Office
MEDS 1480 Medical Terminology
General Education/MnTC Requirements Cr
· · · · · · · · · · · · · · · · · · ·
Refer to the Minnesota Transfer Curriculum Course List

Refer to the Minnesota Transfer Curriculum Course List
for each Goal Area
Goal 1: Communication7
ENGL 1711 Composition 1 (required) – 4 cr
SPCH XXXX (required) (Goal 1 only) – 3 cr
□ Goal 3 or Goal 4
Goal 3: Natural Sciences OR
Goal 4: Mathematical/Logical Reasoning
□ Goal 5: History, Social Science and
Behavioral Sciences
□ Goal 6: Humanities and Fine Arts
□ Goals 1-10 of the Minnesota Transfer Curriculum 3
Select a minimum of 3 additional credits
General Education Requirements
Total Program Credits
lotal Program Credits

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Medical Office Professional AAS

BA Individualized Studies Metropolitan State University

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Not all courses are offered each semester; a selection of courses is offered summer term.

First Semester BUSN 1410 Introduction to Business BTEC 1421 Business Information Applications 1 . MEDS 1420 Health Information Foundations MEDS 1470 Anatomy & Physiology/Medical Offic MEDS 1480 Medical Terminology Total Semester Credits.	3 3 xe3
Second Semester BTEC 1423 Business Information Applications 2 . ENGL 1711 Composition 1 (Goal 1) MEDS 1551 Medical Formatting/Transcription 1 . MEDS 1570 Human Disease	4 3 3
Third Semester MEDS 1552 Medical Transcription 2 BTEC 2410 Business Procedures Natural Sciences (Goal 3) OR Mathematical/Logical Reasoning (Goal 4) History, Social Science, Behavioral Sciences(Goal Humanities and Fine Arts (Goal 6) Total Semester Credits	
Fourth Semester MEDS 1553 Medical Transcription 3 MEDS 1560 Computerized Health Information MEDS 2430 Pharmacology for the Medical Office BUSN 1480 Business Career Resources Mn Transfer Curriculum (Goals 1-10) Total Semester Credits	· · · 3 • · · 2 · · · 1 · · · 3
Total Program Credits	60
Minimum Program Entry Requirement Students entering this program must meet the following minimum program entry requirement Reading: Score of 78+ or grade of "C" or better in READ 0722	ne
Writing: Score of 78+ on Reading Comprehe or grade of "C" or better in ENGL 1415	nsion
Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742	
Keyboarding Skills: Minimum of 40 WPM v 3 errors or less or a grade of "C" or better BTEC 1400.	

Computer Skills: Basic computer skills such as word processing, spreadsheets, and Internet usage or a grade of "C" or better in BTEC 1418.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

024A (7028)

Medical Coding DIPLOMA

Program Overview

Graduates of the Medical Coding Diploma program are proficient in coding diagnoses and procedures, abstracting medical data, meeting physician documentation needs, and other related duties. Coders work closely with billing personnel at healthcare facilities, and proficiency in billing and reimbursement procedures is included in the Medical Coding Diploma program. Courses taken to meet requirements for Medical Coding Diploma also prepare a student to continue into the Health Information Technology AAS degree program.

Applicants should possess excellent communication skills, meticulous attention to detail, good spelling, finger dexterity, and extreme accuracy in their work. Candidates considering this field should be comfortable reading and analyzing data for long periods of time, abstracting information from patient health records, assisting billers and other reimbursement personnel, and using critical thinking skills.

Career Opportunities

Graduates of the Medical Coding Diploma program may work in a physician's office, surgery center, specialty clinic, hospital, insurance company, government agency, research foundation, long-term care facility, dental office, consulting firm, rehabilitation center or other health care facility. Medical coding may be done at home through use of a secure Internet connection. Working from one's home is generally for employees who have completed training in an office setting for a period of time.

Program Outcomes

- 1. Graduates will possess the knowledge and skills for employment as a medical coding specialist.
- 2. Graduates will be proficient in the use of computer software applications to assist in assigning diagnoses and procedures.
- Graduates will possess a knowledge of medical terminology, anatomy and physiology, patient confidentiality, ethical standards of coding, and electronic health record applications to perform in a healthcare environment.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Advisor

Kelly Dale kelly.dale@saintpaul.edu Rosalie Jaenisch rosalie.jaenisch@saintpaul.edu

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, and Saturday courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

☑ Check off when completed

All classes must be successfully completed with a grade of $\ensuremath{"C"}$ or better.

Technical Requirements

\Box BTEC 1421 Business Information Applications 13
□ BUSN 1480 Business Career Resources
□ MEDS 1420 Health Information Foundations3
MEDS 1470 Anatomy & Physiology/
Medical Office
□ MEDS 1480 Medical Terminology
□ MEDS 1560 Computerized Health Information 3
□ MEDS 1570 Human Disease
MEDS 2430 Pharmacology for the
Medical Office
□ MEDS 2461 ICD-10-CM Coding
□ MEDS 2462 ICD-10-PCS Coding
□ MEDS 2470 CPT-4 Coding
□ MEDS 2480 Advanced Coding
<u> </u>
Total Program Credits 34

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended; however, this sequence is not required. Not all courses are offered each semester.

2014 - 2015

First Semester

Cr

BTEC 1421 Business Information Applications 1 3 MEDS 1420 Health Information Foundations 3 MEDS 1470 Anatomy & Physiology/Medical Office 3 MEDS 1480 Medical Terminology 3
Total Semester Credits12
Second Semester
MEDS 1570 Human Disease
MEDS 2461 ICD-10-CM Coding
MEDS 2462 ICD-10-PCS Coding4
MEDS 2470 CPT-4 Coding
Total Semester Credits
Third Semester
BUSN 1480 Business Career Resources1
MEDS 1560 Computerized Health Information3
MEDS 2430 Pharmacology for the Medical Office 2
MEDS 2480 Advanced Coding

Total Semester Credits......9

Total Program Credits 34

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements prior to beginning the program:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 78+ on Reading Comprehension or grade of "C" or better in ENGL 1415

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Keyboarding Skills: Minimum of 40 WPM with 3 errors or less or a grade of "C" or better in BTEC 1400.

Computer Skills: Basic computer skills such as word processing, spreadsheets, and Internet usage or a grade of "C" or better in BTEC 1418.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

330D (7189)

Medical Office CERTIFICATE

Program Overview

Graduates of the Medical Office certificate assist with scanning information into electronic health records, releasing patient information, meeting physician documentation needs, scheduling patients, and other related duties.

High school graduation or equivalent is required. Applicants should possess excellent communication skills, meticulous attention to detail, good spelling, finger dexterity, and extreme accuracy in their work. Candidates considering this field should be comfortable reading and analyzing data, assisting with patient concerns, and working with computer programs.

Career Opportunities

Medical Office Professionals work in physician offices, surgery centers, specialty clinics, hospital, insurance companies, government agencies, research foundations, long-term care facilities, dental offices, consulting firms, rehabilitation centers or other health care facilities. Other places of employment include working for vendors of computer software.

Program Outcomes

- 1. Graduates will possess the knowledge and skills for employment as a Medical Office Professional.
- 2. Graduates will be proficient in the use of computer software applications, including patient scheduling and electronic health record applications.
- Graduates will possess a knowledge of medical terminology, anatomy and physiology, and confidentiality of patient health information to perform in a healthcare environment.

Program Advisor

Jen Anglin jennifer.anglin@saintpaul.edu

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, and Saturday courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

Course Cr
□ BTEC 1421 Business Information Applications 13 □ BTEC 1530 Communication Technology4 □ BUSN 1480 Business Career Resources1 □ MEDS 1420 Health Information Foundations3
MEDS 1470 Anatomy & Physiology/ Medical Office

Total Program Credits 20

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Not all courses are offered each semester; a selection of courses is offered summer term.

First Semester

BTEC 1421 Business Information Applications 13 MEDS 1420 Health Information Foundations3 MEDS 1470 Anatomy & Physiology/Medical Office3 MEDS 1480 Medical Terminology3 Total Semester Credits
Second Semester
BTEC 1530 Communication Technology4
BUSN 1480 Business Career Resources1
MEDS 1560 Computerized Health Information3
Total Semester Credits8
Total Program Credits 20

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements prior to beginning the program:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 78+ on Reading Comprehension or grade of "C" or better in ENGL 1415

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Keyboarding Skills: Minimum of 40 WPM with 3 errors or less or a grade of "C" or better in BTEC 1400.

Computer Skills: Basic computer skills such as word processing, spreadsheets, and Internet usage or a grade of "C" or better in BTEC 1418.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

329C (7188)

Information is subject to change. This Program Requirements Guide is not a contract.

Medical Transcription/Healthcare Documentation Specialist CERTIFICATE

Program Overview

Graduates of a certificate program in transcription/healthcare documentation are proficient in transcribing medical documents, creating and processing correspondence, assisting with release of information, meeting physician documentation needs, and other duties. Courses from the certificate are applicable toward the Medical Office Professional AAS degree.

Applicants should possess excellent communication skills, meticulous attention to detail, good spelling, finger dexterity, and extreme accuracy in their work. Candidates considering this field should be comfortable listening to dictated material for an extended periods, editing documents created through the use of voice recognition software, and possess knowledge of patient confidentiality regarding health information.

Career Opportunities

Medical transcriptionists/healthcare documentation specialists may work in a physician's office, surgery center, specialty clinic, hospital, insurance company, government agency, research foundation, long-term care facility, dental office, consulting firm, rehabilitation center or other health care facility.

Program Outcomes

- 1. Graduates will possess the knowledge and skills for employment as a medical transcriptionist/healthcare documentation specialist.
- 2. Graduates will be proficient in the use of computer software applications to create and edit medical documentation.
- 3. Graduates will transcribe reports and documents for a variety of healthcare specialties using knowledge of pharmacology, pathophysiology, laboratory and radiology testing.
- Graduates will use knowledge of medical terminology, anatomy and physiology, and HIPAA guidelines on patient confidentiality to produce medical documentation in a healthcare environment.

Program Advisor

Jen Anglin jennifer.anglin@saintpaul.edu

Part-time/Full-time Options

This program can be completed by using a combination of day, evening, and Saturday courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

 \blacksquare Check off when completed

Course Cr
□ BTEC 1421 Business Information Applications 13
□ BUSN 1480 Business Career Resources
□ MEDS 1420 Health Information Foundations3
MEDS 1470 Anatomy & Physiology/
Medical Office
□ MEDS 1480 Medical Terminology
□ MEDS 1551 Medical Formatting/Transcription 13
□ MEDS 1552 Medical Transcription 2
□ MEDS 1553 Medical Transcription 3
□ MEDS 1560 Computerized Health Information 3
□ MEDS 1570 Human Disease
MEDS 2430 Pharmacology for the
Medical Office2

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended; however, this sequence is not required. Not all courses are offered each semester; a selection of courses is offered summer term.

First Semester

BTEC 1421 Business Information Applications 1 3 MEDS 1470 Anatomy & Physiology/Medical Office 3 MEDS 1480 Medical Terminology. 3 MEDS 1551 Medical Formatting/Transcription 1 3 Total Semester Credits. 12
Second Semester
MEDS 1420 Health Information Foundations
MEDS 1552 Medical Transcription 2
MEDS 1570 Human Disease
MEDS 2430 Pharmacology for the Medical Office 2
Total Semester Credits
Third Semester
BUSN 1480 Business Career Resources1
MEDS 1553 Medical Transcription 33
MEDS 1560 Computerized Health Information3
Total Semester Credits7

Total Program Credits 30

Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements prior to beginning the program:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 78+ on Reading Comprehension or grade of "C" or better in ENGL 1415

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0741

Keyboarding Skills: Minimum of 40 WPM with 3 errors or less or a grade of "C" or better in BTEC 1400.

Computer Skills: Basic computer skills such as word processing, spreadsheets, and Internet usage or a grade of "C" or better in BTEC 1418.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

026C (7030)

Information is subject to change. This Program Requirements Guide is not a contract.

2014 - 2015

Health Unit Coordinator CERTIFICATE

Program Overview

Health Unit Coordinators work at the nursing station in health care facilities. As the center of communications on the nursing unit, Health Unit Coordinators are responsible for reading doctor's orders for patient treatments, medications and tests and accurately relaying those orders to the appropriate department. The Health Unit Coordinator is responsible for performing clerical tasks with emphasis on customer service on the nursing unit including answering the telephone, operating the computer, assisting visitors, filing, and maintaining patient records. Recent changes in healthcare with electronic medical records and computerized physician order entry will be introduced. Adequate computer keyboarding skills are required to be accepted into the program. Please see "Minimum Program Entry Requirements."

Health Unit Coordinators must be able to complete detailed tasks with a high degree of accuracy, while working in a busy environment. They must be self-motivated and conscientious to complete work independently and be able to solve problems logically.

Excellent written and verbal communication skills are essential. All health care workers must have a high degree of ethics in maintaining the confidentiality of patient information. Health Unit Coordinators must be professional in: interactions with others, performance of job responsibilities and appearance, as well as be proficient in the English language.

Career Opportunities

Health Unit Coordinators are employed in front desk positions at various metropolitan hospitals, healthcare centers and clinics. The National Association of Health Unit Coordinators conducts an optional certification exam for Health Unit Coordinators. Certification exams are independent of graduation requirements.

Program Outcomes

- 1. Graduates will possess the knowledge necessary to process physicians' orders.
- 2. Graduates will have the ability to manage the clerical aspects of the nursing unit.
- 3. Graduates will have the ability to function in the receptionist role on the nursing unit.
- Graduates will demonstrate their knowledge and skills by performing as a HUC via Internship.
- 5. Graduates will be prepared for immediate employment as a HUC.
- 6. Graduates will be prepared for the National HUC certification exam.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

Anita Mills anita.mills@saintpaul.edu

Part-Time/Full-time Options

Part-time and full-time options are available.

Textbook and Supply Costs

Students should expect to spend approximately \$300 beyond the cost of tuition and fees for books, supplies and parking.

Required Internship

Students in this program must complete an internship. When on internship, students are responsible for appropriate business attire or uniforms, parking fees, and any other expenses associated with the internship. Liability insurance is included in the cost of tuition.

- Satisfactory completion of all coursework is required for internship.
- Students must submit specified immunization records and receive a background study clearance through the Minnesota Department of Human Services before they can be placed in an internship facility.

Program Requirements

☑ Check off when completed

Course Ci	2
□ HLUC 1410 Diagnostic & Therapeutic	
Procedures4	ŀ
HLUC 1420 Health Unit Coordinator	
Fundamentals	ŀ
□ HLUC 1510 Processing Physicians' Orders 1 3	3
□ HLUC 1511 Processing Physicians' Orders 2 3	3
□ HLUC 2491 Health Unit Coordinator Internship3	3
T . I D	

Total Program Credits17

This program meets National Association of HUC Standards and prepares students for the National HUC certification exam.

NAHUC Web site: www.NAHUC.org

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. All courses are offered spring and fall; the HLUC Internship is offered spring semester and summer term.

First Semester

HLUC 1410 Diagnostic & Therapeutic Procedures4
HLUC 1420 Health Unit Coordinator Fundamentals 4
HLUC 1510 Processing Physicians' Orders 13
HLUC 1511 Processing Physicians' Orders 23
Total Semester Credits14

Second Semester

HLUC 2491 Health Unit Coordinator Internship	3
Total Semester Credits	3

Total Program Credits17

Attend a FREE Information Seminar

Attend a Health Unit Coordinator Seminar to find out more about the program. Seminars are offered prior to each Fall and Spring Semester and during the Summer Term.

Learn more about:

- classes offered
- clinical internship requirements
- what currently is happening in this field

Contact Anita Mills, Heath Unit Coordinator instructor at anita.mills@saintpaul.edu or 651.846.1502 for seminar dates and times and to register for the free Health Unit Coordinator Information Seminar.

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 78+ on Reading Comprehension or grade of "C" or better in ENGL 1415

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Keyboarding: Keyboarding assessment of 30 wpm and 5 or fewer errors or grade of "C" or better in BTEC 1400 Keyboarding.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites. 155C (7019)

Nursing Station Technician CERTIFICATE

Program Overview

The Nursing Station Technician program is designed for Health Unit Coordinators who wish to acquire the necessary skills to assist nurses with hands-on patient care. This program will provide Health Unit Coordinator and Nursing Assistant/Home Health Aide training. It includes Health Unit Coordinator courses and internship and basic nursing assistant skills in the laboratory setting and a clinical experience in a long term care facility. Graduates of this program are eligible to take the National Nurse Aid Assessment Program test (NNAAP) /Home Health Aide test to be placed on the Minnesota State Nursing Assistant Registry.

Students are required to enroll in the Health Unit Coordinator Certificate program first. These classes must be completed before being accepted into the Nursing Station Technician Certificate program. Adequate computer keyboarding skills are required to be accepted into the program. Please see "Minimum Program Entry Requirements."

Career Opportunities

Positions are available as HUC/NA/HHA, Patient Care Technician (PCT), Nursing Station Technician (NST), and Unit Coordinators (UC) in hospitals, healthcare centers, clinics, and home health care setting.

Program Outcomes

- 1. Graduates will possess the knowledge necessary to process physicians' orders.
- 2. Graduates will have the ability to manage the clerical aspects of the nursing unit.
- 3. Graduates will have the ability to function in the receptionist role on the nursing unit.
- 4. Graduates will demonstrate their knowledge and skills by performing as a HUC via Internship.
- 5. Graduates will be prepared for the National HUC certification exam.
- 6. Graduates will be prepared to provide direct patient care in hospitals, healthcare centers, and home health care setting.
- 7. Graduates will be prepared to meet the requirements to be placed on the Minnesota State Nursing Assistant Registry.
- 8. Graduates will be prepared for immediate employment in the HUC/NA/HHA role.

Students must submit specified immunization records and receive a background study clearance through the Minnesota Department of Human Services before they can be placed in an internship facility.

Program Faculty

Anita Mills anita.mills@saintpaul.edu Health Unit Coordinator Instructor

Nursing Assistant & Home Health Aide - Contact the Health Programs Administrative Assistant at 651.846.1413.

Part-Time/Full-time Options

Part-time and full-time options are available.

Textbook and Supply Costs

Students should expect to spend approximately \$400 beyond the cost of tuition and fees for books, supplies and parking. Fees do not include the National Nurse Aide Assessment Program Test (NNAAP)/Home Health Aide, or uniforms.

Program Requirements

☑ Check off when completed

Course Cr				
HLUC 1410 Diagnostic &				
Therapeutic Procedures				
□ HLUC 1420 Health Unit Coordinator				
Fundamentals 4				
□ HLUC 1510 Processing Physicians' Orders 1 3				
□ HLUC 1511 Processing Physicians' Orders 2 3				
□ HLUC 2491 Health Unit Coordinator Internship 3				
□ NAST 1111 Nursing Assistant &				
Home Health Aide				
□ NAST 1112 Nursing Assistant – Clinical 1				
Subtotal				
General Education Requirements				
(SPCH 1720 Interpersonal Communication OR				
SPCH 1730 Intercultural Communication is				
recommended)				
Total Program Credits				

Special Course Registration Instructions for NAST Courses

Please follow all instructions for enrolling in the NAST 1111/1112 Courses:

- 1. Registration process begins with attending the required Nursing Assistant/Home Health Aide Information Session: See available dates online at www.saintpaul.edu/NAHHA
- 2. Complete NAST 1111 and NAST 1112 in same semester: All lab/lecture and clinical for Nursing Assistant & Home Health Aide Theory and Clinical classes must be completed in the SAME SEMESTER. Federal & Minnesota State Regulations require that students cannot miss more than 5 hours of class for the entire program and must attend a 2 hour clinical orientation and at least 16 hours of clinical. Students who need to repeat any part of the theory will be required to retake both the theory and clinical and pay the full tuition rate.

Program Start Dates

Fall and Spring

Course Sequence

The following course sequence is recommended; however, the sequence is not required.

First Semester

HLUC 1410 Diagnostic & Therapeutic Procedures4HLUC 1420 Health Unit Coordinator Fundamentals4HLUC 1510 Processing Physicians' Orders 13HLUC 1511 Processing Physicians' Orders 23Total Semester Credits14
Second Semester
Follow special enrollment instructions for the
NAST 1111/1112 Courses
HLUC 2491 Health Unit Coordinator Internship3
NAST 1111 Nursing Assistant & Home Health Aide 4
NAST 1112 Nursing Assistant – Clinical1
General Education Requirements
(SPCH 1720 Interpersonal Communication OR
SPCH 1730 Intercultural Communication is
recommended)
Total Semester Credits
Total Program Credits25

Information is subject to change. This Program Requirements Guide is not a contract.

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 78+ on Reading Comprehension or grade of "C" or better in ENGL 1415

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Keyboarding: Keyboarding assessment of 30 wpm and 5 or fewer errors or grade of "C" or better in BTEC 1400 Keyboarding.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites. 320C

Health Sciences Broad Field AS DEGREE

Program Overview

The Health Sciences Broad Field AS Degree is designed to provide general education courses for students interested in health sciences, but have not yet decided which specific health care field they intend to pursue.

Career Opportunities

Students enrolled in the Health Sciences Broad Field AS degree will acquire all of the skills and knowledge needed to provide a smooth transition into baccalaureate health-related programs such as:

- Community Health
- Nursing
- Dental Hygiene
- Social Work
- Health Education
- Food and Nutrition
- Exercise Science

Program Outcomes

- 1. Utilize the English language effectively to read, write, speak, and listen critically.
- 2. Develop the capacity to identify, discuss, and reflect upon social and behavioral issues.
- 3. Demonstrate comprehension of human and biological systems.
- 4. Enhance mathematical and logical thinking techniques.
- 5. Improve their awareness and understanding of health, wellness, and liberal arts.

Academic Advisors

Transfer Specialists are the Academic Advisors for the Health Sciences Broad Field AS degree and are located in the Transfer Center, Room 1365, Main Floor. For assistance or additional information, please call or email: 651.846.1739 or transfer.center@saintpaul.edu

Transfer Opportunities

Saint Paul College has transfer articulation agreements between the following program and post-secondary institutions for the baccalaureate degree programs listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Health Sciences Broad Field AS

- BS Community Health, Exercise Science, Nursing (limited) Bemidji State University
- BSN Nursing (limited) Metropolitan State University
- BS Community Health, Exercise Science, Health Education Minnesota State University-Moorhead
- BS Communication Disorders, Foods and Nutrition, Dental Hygiene (limited), Therapeutic Recreation, Dietetics, Nursing (limited), Corrections, Psychology, Health Science, Social Work Minnesota State University, Mankato
- BS Athletic Training, Community Health, Social Work St. Cloud State University
 - St. Cloud State Oniversity
- BS Exercise Science Southwest Minnesota State University
- BS Biology, Health, Exercise and Rehabilitative Sciences, Movement Sciences, Exercise Science, Health Promotion, Community Health, Nursing (limited) Winona State University

Program Requirements

☑ Check off when completed

Course Cr
□ BIOL 1740 General Biology 1: The Living Cell 5
□ BIOL 1760 Nutrition
□ BIOL 2721 Human Anatomy and Physiology 14
□ BIOL 2722 Human Anatomy and Physiology 24
□ BIOL 2750 General Microbiology4
□ CHEM 1711 Principles of Chemistry 14
ENGL 1711 Composition 14
MATH 1730 College Algebra
□ MATH 1740 Introduction to Statistics4
PHIL 1722 Health Care Ethics
PSYC 1710 General Psychology4
□ PSYC 1720 Psychology throughout the Lifespan3
□ SOCI 1710 Introduction to Sociology
□ SPCH 1720 Interpersonal Communication3
Subtotal
Liberal Arts or Science Electives 8
Select a minimum of 8 additional credits from
Goals 1-10 of the Minnesota Transfer Curriculum.

Total Program Credits60

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or a grade of "C" or better in READ 0722.

Writing: Score of 78+ or a grade of "C" or better in ENGL 1415.

Arithmetic: Score of 57+ or a grade of "C" or better in MATH 0742.

Assessment Results and Prerequisites: Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and

programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, BIOL, and CHEM courses have additional prerequisites. 3415 (7194)

Information is subject to change. This Program Requirements Guide is not a contract.

2014 - 2015

Medical Laboratory Technician AAS DEGREE

Program Overview

Medical Laboratory Technicians collect blood, examine and analyze body fluids, tissues and cells. They look for bacteria, parasites, or other microorganisms; count cells and look for abnormal cells; analyze the chemical content of fluids; match blood for transfusions and test for drug levels in the blood to demonstrate how a patient is responding to treatment. They also prepare specimens for examination. They use automated equipment and instruments that perform a number of tests simultaneously, as well as microscopes, cell counters and other kinds of sophisticated laboratory equipment to perform tests. They then analyze the results and relay them to physicians. Qualifications include an interest in science and mathematics, accuracy and attention to detail, moral and intellectual integrity, self-discipline, an ability to multitask and desire to contribute to quality health care. Laboratory workers must have the skill to perform and master a variety of tasks.

The Medical Laboratory Technician program is a combination of classroom, laboratory and applied experiences that will provide students with training needed for employment in Medical Laboratory careers. Following the didactic coursework, which includes hands-on training in campus student laboratories, students are assigned to a clinical affiliate for the clinical experience. This required portion of the curriculum provides an opportunity for demonstration of technical and effective skill competency.

Career Opportunities

Laboratory tests are of vital importance to modern medical practice. The need for clinical laboratory workers is expected to remain strong. Increased job openings are expected due to the increased need for laboratory testing in an aging population and also due to vacancies created through retirements of current employees. Technicians are employed in hospital laboratories, clinics, doctor's offices, public health agencies and pharmaceutical, industrial, and medical research laboratories.

Program Outcomes

- The graduate will demonstrate proper use, calibration, adjustment, and operation of most laboratory precision instrumentation including clinical microscopes, spectrophotometers, centrifuges, automated cell counters, computers, and chemistry analyzers.
- 2. The graduate will demonstrate standard safety practices in the medical laboratory designed to prevent injury, illness, or loss of life to those working in and/or around medical laboratory equipment with particular emphasis on the skills required for collection and testing of numerous body fluids and specimens using Standard Precautions (including the use of personal protective equipment).

- 3. The graduate will correlate pathological conditions of the human body, including cause and symptoms, to the laboratory's role in diagnosis and treatment.
- 4. The graduate will demonstrate organized work skills as reflected in efficient time and material utilization while performing proficiently and safely in the clinical environment.
- 5. The graduate will perform a wide variety of testing procedures employed in a medical laboratory and relate the principles of quality assurance and the importance of these procedures to the diagnosis and treatment of disease processes in the following areas: clinical chemistry, hematology and hemostasis, urinalysis, microbiology, immunohematology (transfusion medicine) and immunology.
- The graduate will be prepared to take the examination administered by the Board of Certification under the direction of the American Society for Clinical Pathology (ASCP).
- 7. The graduate will demonstrate preparedness for entry level employment as a Medical Laboratory Technician, including both technical expertise and professionalism.

National Certification Exam

Upon completion of the program, the student is eligible to take an examination administered by the Board of Certification under the direction of the American Society for Clinical Pathology (ASCP).

Textbook and Supply Costs

Students should expect to spend approximately \$2,400.00, beyond the cost of tuition and fees, for books, supplies, certification exam, and liability insurance.

Part-time and Full-time Options

Many students attend part-time, which usually increases the program length to 3 years. Parttime students take required general education courses prior to enrolling in the MDLT courses. Once admitted to the MLT Major, students must take all of the required MDLT courses in sequence as prescribed. Students completing the required General Education, developmental or ESL courses and who have not been officially admitted to the MLT program are considered Pre-Medical Laboratory Technician.

Transfer Opportunities

Saint Paul College has transfer articulation agreements between the following program and post-secondary institutions for the baccalaureate degree programs listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Medical Laboratory Technician AAS

- BS Allied Healthcare Management Saint Mary's University-Twin Cities Campus
- BS Clinical Laboratory Science Winona State University

Application Process

After completing the Saint Paul College application and admission process, students interested in the Medical Laboratory Technician program must submit a completed <u>Application</u> to Medical Laboratory Technician Program form available on the Medical Laboratory Technician Web page: www.saintpaul.edu/MLT and meet the following criteria:

- Documented readiness for, or completion of, the following required General Education Courses: ENGL 1711 English Composition and CHEM 1711 Principles of Chemistry 1
- Achieve a cumulative GPA of 2.8 or better with a minimum grade of "C" in all college level courses.

Admission into the Program

Applying by the priority application deadline (listed on the application) does not guarantee admission to the Medical Laboratory Technician Program.

Being admitted to Saint Paul College does not imply admission into the Medical Laboratory Technician Program.

The Medical Laboratory Technician Admissions Committee will review each application on the basis of overall academic ability, GPA of college level courses, and assessment scores.

Students admitted into the Medical Laboratory Technician program must attend a mandatory Seminar to complete documentation to enter the program.

Program Faculty

Michelle Briski michelle.briski@saintpaul.edu Lynn Poth lynn.poth@saintpaul.edu

Students should consult with the program advisor to develop an appropriate educational plan.

Program Requirements and Course Sequence information on back.

Information is subject to change. This Program Requirements Guide is not a contract.

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 78+ on Reading Comprehension or grade of "C" or better in ENGL 1415

College Level Math: Score of 50+ or grade of "C" or better in MATH 1520

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites. 061A 622A (7044)

Program Requirements

All classes must be successfully completed with a grade of "C" or better. \boxdot Check off when completed

E Check of when completed
MDLT Core Courses Cr
MDLT Core Courses can only be taken by students who have been officially accepted and admitted into the Medical Laboratory Technician Program. HLTH 1410 Medical Terminology . 1 MDLT 1400 Orientation . 1 MDLT 1410 Laboratory Techniques . 3 MDLT 1421 Hematology 2 . 2 MDLT 1422 Hematology 2 . 4 MDLT 1430 Urinalysis/Body Fluids . 3 MDLT 1441 Clinical Chemistry 1. 2 MDLT 1442 Clinical Chemistry 2. 4 MDLT 1446 Phlebotomy. 1 MDLT 1510 Immunology . 2 MDLT 2400 Okycology/Parasitology. 2 MDLT 2410 Immunohematology. 3 MDLT 2430 Clinical Alicrobiology. 4 MDLT 2430 Clinical Practice Orientation 1 MDLT 2591 Clinical Practice. 9 MDLT 2593 Comprehensive Examinations. 1 MDLT Core Credits Subtotal . 43
General Education/MnTC Requirements Cr
Refer to the Minnesota Transfer Curriculum Course List for each Goal Area Goal 1: Communication
Total Program Credits
Recommended Supplemental Courses The following optional Learning Lab courses reinforce the basic skills required for attaining proficiency in performing medical laboratory procedures:

	0.			0	
MDLT	1451	Learning	Lab	1 – Introductory Skill	s1
MDLT	1452	Learning	Lab	2 – Introductory Skill	s1
MDLT	1453	Learning	Lab	3 – Intermediate Skil	ls1
MDLT	1454	Learning	Lab	4 – Intermediate Skil	ls1
MDLT	2455	Learning	Lab	5 – Advanced Skills .	1
MDLT	2456	Learning	Lab	6 - Advanced Skills .	1

This program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences: (NAACLS)

NAACLS 5600 N River RD, Suite 720 Rosemount, IL 60018-5119 Telephone: 773.714.8880 Fax: 773.714.8886 E-mail: info@naacls.org Web site: www.naacls.org

Program Start Dates

Fall

Course Sequence

The following Course Sequence is recommended for full-time students. MDLT Core Courses can only be taken by students who have been officially accepted and admitted into the Medical Laboratory Technician program and who have attended the Mandatory Medical Lab Technician Seminar.

Students should consult with the program advisor to develop an appropriate educational plan. HLTH 1410 Medical Terminology must be completed by the end of the first semester in the MLT Major. Not all courses are offered each semester. MDLT coursework can be started only Fall semester.

Fall Semester

HLTH 1410 Medical Terminology 1 MDLT 1400 Orientation. 1 MDLT 1410 Laboratory Techniques. 3 MDLT 1421 Hematology 1 2 MDLT 1421 Hematology 1 2 MDLT 1420 Urinalysis/Body Fluids 3 MDLT 1446 Phlebotomy 1 MDLT 1441 Clinical Chemistry 1 2 BIOL 1730 Human Body Systems (Goal 3) 3 CHEM 1711 Principles of Chemistry 1 4 Total Semester Credits. 20 Recommended Supplemental Courses First Semester: MDLT 1451 Learning Lab 1 (Optional) MDLT 1452 Learning Lab 2 (Optional) 1
Spring Semester MDLT 1422 Hematology 2 4 MDLT 1442 Clinical Chemistry 2 4 MDLT 1510 Immunology 2 CHEM 1712 Principle of Chemistry 2 (Goal 3) 4 BIOL 1740 General Biology (Goal 3) 5 Total Semester Credits 19
Recommended Supplemental Courses Second Semester: MDLT 1453 Learning Lab 3 (Optional)
Summer Term SPCH 1710 Fundamentals of Public Speaking (Goal 1) 3 ENGL 1711 Composition 1 Total Summer Term Credits
Fall Semester (Year 2) MDLT 2400 Mycology/Parasitology 2 MDLT 2410 Immunohematology 3 MDLT 2420 Clinical Microbiology. 4 MDLT 2430 Clinical Practice Orientation 1 PSYC 1710 or SOCI 1720 (Goal 5)*. 3 PHIL 1722 Health Care Ethics (Goal 6)* 3 Total Semester Credits 16 Recommended Supplemental Courses Fourth Semester: MDLT 2455 Learning Lab 5 (Optional) MDLT 2456 Learning Lab 6 (Optional) 1
Spring Semester (Year 2) MDLT 2591 Clinical Practice
Summer Term MDLT 2593 Comprehensive Examinations 1 Total Summer Term Credits
Total Program Credits

*Refer to the Minnesota Transfer Curriculum Course List.

Program Requirements Guide

Phlebotomy Technician CERTIFICATE

Program Overview

Phlebotomy technicians serve an integral role as members of the health care team. Phlebotomy is an entry level position in healthcare. Trained to collect blood specimens from patients, Phlebotomy technicians are skilled professionals who assist physicians in diagnosis and treatment of disease by ensuring high quality of the specimen they provide for laboratory analysis. They practice safety to protect themselves and the patients they serve. Additionally, because phlebotomy involves significant direct patient contact, these laboratory and must adhere to standards of professional behavior and appearance.

Qualifications include an ability to work accurately under pressure, and to communicate effectively. Phlebotomy technicians like challenge and responsibility and are committed to providing high quality care to patients.

The Phlebotomy technician program is a combination of classroom, laboratory and applied experiences that will provide students with training needed for employment in phlebotomy careers. Following the on-campus phlebotomy didactic coursework, students are assigned to a clinical affiliate for the clinical experience. This required portion of the curriculum provides an opportunity for demonstration of technical and affective skill competency. Students spend 100 hours at the affiliate where they must perform a minimum

of 100 successful blood collection procedures, under the supervision of affiliate staff. The clinical experience typically occurs during the daytime operational hours of our affiliate clinical sites. **Students must schedule** their courses accordingly with evening or online course offerings.

After program completion, graduates are eligible to take the Phlebotomy technician Certification examination administered through the American Society of Clinical Pathology (ASCP) Board of Certification.

Career Opportunities

Phlebotomy technicians are employed in a variety of settings including hospitals, clinics, blood donation centers and other outpatient care centers.

Program Outcomes

- The graduate will demonstrate proper selection and use of phlebotomy equipment for safe specimen procurement that maintains optimal specimen integrity.
- 2. The graduate will demonstrate awareness of and ability to respond to complications or special considerations.
- 3. The graduate will demonstrate standard safety practices designed to prevent injury, illness or loss of life using Standard Precautions (including the use of Personal Protective Equipment)

- 4. The graduate will demonstrate effective interpersonal/professional/self -management skills to fulfill his/her job responsibilities in interactions with patients, colleagues and other members of the health care team.
- The graduate will be prepared to take the examination administered by the Board of Certification under the direction of the American Society for Clinical Pathology (ASCP).
- 6. The graduate will demonstrate preparedness for entry level employment as a Phlebotomy Technician.

This program meets National Association of ional Accrediting Agency for Clinical Laboratory Sciences: (NAACLS)

NAACLS 5600 N River Rd., Suite 720 Rosemount, IL 60018-5119 Telephone: 773.714.8880 Fax: 773.714.8886 Email: info@naacls.org Website: www.naacls.org

Program Faculty

Michelle Briski michelle.briski@saintpaul.edu

Jon Berndtson jonathan.berndtson@saintpaul.edu

Program Requirements

 \blacksquare Check off when completed

Course

Cr

- □ HLTH 1410 Medical Terminology1
- □ HLTH 1430 CPR/First Aid OR
- HLTH 1432 CPR for the Professional Rescuer and Health Care Provider1
- PHLB 1405 Phlebotomy4 (Registration occurs at time of mandatory information session)
- PHLB 1410 Phlebotomy Clinical Experience2 (Registration occurs at time of mandatory information session)
- □ SPCH 1710 Fundamentals of Public Speaking OR SPCH 1720 Interpersonal Communication.....3

Total Program Credits 17

Additional Program Requirements

- Grade of "C" (2.0) or higher in all courses with A/F grading criteria
- Pass (P) grade demonstrating satisfactory performance in meeting skill competencies in the PHLB clinical experience course
- Evidence of immunity to specified diseases
- Passing of a criminal background study prior to being placed in a PHLB clinical experience. The College cannot guarantee placement in clinical experiences for students who do not have a clear background study. For more information about the background study process and disqualifying crimes, contact the Minnesota Department of Human Services at 651.296.3802.

Textbook and Supply Costs

Students should expect to spend approximately \$250.00 beyond the cost of tuition and fees, for books, supplies (gloves), certification exam and liability insurance. Students are responsible for parking and transportation costs for the clinical experience portion of the program.

Mandatory Information Session

Students must attend a mandatory information session to complete documentation to enter the program.

See Course Sequence on back

Information is subject to change. This Program Requirements Guide is not a contract.

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 78+ or grade of "C" or better in ENGL 1415

Math: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

339C (7195)

Phlebotomy Technician CERTIFICATE (continued)

Program Start Dates

Fall, Spring

Course Sequence

This certificate can be completed in one semester as shown in the following sequence; however, this sequence is not required. Not all courses are offered each semester; a selection of courses is offered summer term.

Students must enroll in PHLB 1405 Phlebotomy and PHLB 1410 Phlebotomy Clinical Experience within the same semester. This allows immediate progression to the Phlebotomy Clinical Experience in the latter half of the semester after successful completion of Phlebotomy in the first half of the semester.

The clinical experience typically occurs during the daytime operational hours of our affiliate clinical sites. Students must schedule their courses accordingly with evening or online course offerings.

Sequence for Full-Time Schedule

HLTH 1410 Medical Terminology1
HLTH 1430 CPR/First Aid OR
HLTH 1432 CPR for the Professional Rescuer and
Health Care Provider
PHLB 1405 Phlebotomy4
(Registration occurs at time of mandatory
information session)
PHLB 1410 Phlebotomy Clinical Experience2
(Registration occurs at time of mandatory
information session)
BIOL 1730 Human Body Systems
PHIL 1722 Health Care Ethics
SPCH 1710 Fundamentals of Public Speaking OR
SPCH 1720 Interpersonal Communication
Total Program Credits17

Nursing Assistant/Home Health Aide CERTIFICATE

Program Overview

Nursing assistants and Home Health Aides provide direct client care under the direction of a nurse or doctor in a variety of health care settings. Using technical skills learned in both the classroom and clinical setting, nursing assistants and home health aides perform such tasks as feeding, bathing, positioning, ambulating and comfort measures for the client. Students explore and discuss legal, ethical and safety issues in client care. Students are prepared to take the National Nurse Aide Assessment Program (NNAAP) test to be placed on the Minnesota State Nursing Assistant Registry.

Qualifications include achieving appropriate assessment scores as indicated in Minimum Program Entry Requirements.

Licensing certification or registry status are independent of graduation requirements.

Career Opportunities

Graduates of the Nursing Assistant/Home Health Aide Program must successfully take and complete the nursing assistant test exam administered through the designated State testing service to be placed on the Minnesota State Nursing Assistant Registry. Nursing assistants must be on the registry to be employed in the long term care setting.

In Minnesota, employment for nursing assistants is expected to grow at an average rate. Nationally, the number of jobs is expected to grow faster than average.

Upon completion of this course, certified nursing homes or certified boarding care homes are required to reimburse for training and testing expenses paid by the student. This is to be done 90 days from the date of employment. Note reimbursement is not paid to third parties.

Licensing or certification exams are independent of graduation requirements.

Program Outcomes

- Graduates will be prepared to provide direct client care in a long term care facility or home health care setting.
- 2. Graduates will be prepared to meet the requirements to be placed on the Minnesota State Nursing Assistant Registry.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

Please contact the Health Programs Administrative Assistant at 651.846.1413.

Program Start Dates

Fall, Spring, Summer

Program Requirements

Check off when completed

Course		
Students must take both NAST 111	1 a	r

Students must take both NAST 1111 and NAST 1112 in the same term. Classes are offered fall, spring and summer.

Cr

□ NAST 1111 Nursing Assistant & Home

Total Program Credits5

Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 55 or grade of "C" or better in READ 0721

OR

ESL Reading: Score of 81 or better

Assessment Results and Prerequisites: Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites. 270C How to register for the Nursing Assistant/Home Health Aide Courses

Please follow all instructions for enrolling in our Nursing Assistant & Home Health Aide (NA/HHA) classes.

- 1. <u>Registration process</u> begins with attending the required Nursing Assistant/Home Health Aide Information Session: See available dates online at www.saintpaul.edu/NAHHA
- 2. Application for Admission to Saint Paul College and ACCUPLACER Placement Exam: After the Information Session you will need to complete the Application for Admission online. Get your Student ID. Take the ACCUPLACER Placement Exam Reading assessment in the Assessment Center. If you have completed the reading assessment at another college, you must present these scores (or a transcript) documenting successful completion of college level coursework when applying to Saint Paul College.
- 3. Required Scores for ACCUPLACER Placement Exam: Students who score in the required reading levels will be able to register for the next available classes. Registration forms signed by instructors will be given to students at the Information Session. Students who score below required levels must go to Enrollment Services to discuss program options. (see minimum program entry requirements)
- <u>Tuition and fees:</u> This program's tuition, fees, liability insurance and background fees are non-eligible under financial aid. See www.saintpaul.edu/NAHHA for current rates.
- 5. <u>Payment is due in full at the time of registration</u>. Fees do not include the MN Registry test, books, supplies or uniforms. Health information materials are also given out at these Information Sessions.

Post Secondary Enrollment Option Program (PSEO): Students enrolling under the Post Secondary Enrollment Option Program (PSEO) must have a signed PSEO contract from your high school counselor to submit for tuition payment at time of registration. Please note that the PSEO program covers tuition and textbooks only. Students must pay for supplies and the Nursing Assistant Competency Test fees.

6. <u>Complete Lab/Lecture & Clinical classes in</u> <u>same semester:</u> All lab/lecture and clinical for Nursing Assistant & Home Health Aide Theory and Clinical classes must be completed in the SAME SEMESTER. Federal & Minnesota State Regulations require that students cannot miss more than 5 hours of class for the entire program and must attend a 2 hour clinical orientation and at least 16 hours of clinical. Students who need to repeat any part of the theory will be required to retake both the theory and clinical and pay the full tuition rate.

2014 - 2015

Pharmacy Technician AAS DEGREE

Program Overview

Pharmacy Technicians help licensed pharmacists prepare medications, provide customer service, and perform administrative duties within a variety of practice settings, including community, health system, and federal pharmacy. Pharmacy Technicians are generally responsible for receiving prescription requests, counting tablets, labeling bottles, maintaining patient profiles, preparing insurance claim forms, and performing administrative functions such as answering phones, stocking shelves, and operating cash registers.

This program prepares students to take the Pharmacy Technician Certification Exam.

Career Opportunities

Pharmacy Technicians work in retail clinic online and hospital pharmacies. Employment is expected to grow through 2014 as the population grows and ages. Employment projections indicate an increase of 32% from 2010-2020 (according to the U.S. Bureau of Labor Statistics).

Program Outcomes

- Graduates will have skills to provide medications to patients including ordering stocking and packaging.
- 2. Graduates will understand and apply skills in institutional setting in sterile product processing.
- 3. Graduates will have mastered the general education requirements for work and life.
- 4. Graduates will be able to perform administrative duties in a variety of pharmacy related workplace settings.
- Graduates will apply appropriate customer service skills in a hospital or retail based pharmacy.
- 6. Graduates will be prepared to take the Pharmacy Technician Certification Exam.
- 7. Graduates will demonstrate an understanding of all regulations that govern pharmacy technicians.
- Graduates will perform duties as a pharmacy technician in retail and hospital environments.
- 9. Graduates will demonstrate the ability to prepare and interpret pharmacy orders accurately.
- Graduates will exhibit work ethic characteristics of professionalism, responsibility and dependability.
- Graduates will apply knowledge of basic sciences to the practice of pharmacy technology.
- Graduates will demonstrate ability to communicate with patients, health care providers and colleagues.

Program Advisor

Hannah Kokesh hannah.kokesh@saintpaul.edu

Additional Program Material Costs

Students should expect to spend approximately \$250.00 beyond the cost of tuition and fees for books, supplies, certification exam and liability insurance.

Licenses/Testing

Certification Exam \$120.00

• Minnesota Board of Pharmacy Registration \$35.00

Program Requirements

All courses must be successfully completed with a grade of "C" or better.

☑ Check off when completed

Course Cr □ PHAR 1715 Fundamentals of Pharm Tech 1.....5 □ PHAR 1720 Foundations of Pharmaceutical Calculations.....4 PHAR 1730 Principles of Pharmacy5 D PHAR 1750 Pharmacy Internship 1 - Retail3 □ PHAR 2710 Fundamentals of Pharm Tech 2.....5 □ PHAR 2720 Pharmacy Sterile Products Lab5 □ PHAR 2740 Pharmacotherapy of Disease D PHAR 2750 Pharmacy Internship 2 - Hospital4 General Education/MnTC Requirements Cr Refer to the Minnesota Transfer Curriculum Course List for each Goal Area Goal 1: Communication7 ENGL 1711 Composition 1 (required) - 4 cr SPCH XXXX (required) – 3 cr □ Goal 3 or Goal 4.....7 Goal 3: Natural Sciences OR BIOL 1730 Human Body Systems – 3 cr CHEM 1711 Principles of Chemistry - 4 cr Goal 4: Mathematical /Logical Reasoning Goal 5: History, Social Science and Behavioral PSYC 1710 Psychology throughout the Lifespan – 3 cr PHIL 1722 Healthcare Ethics – 3 cr

Total Program Credits60

Information is subject to change. This Program Requirements Guide is not a contract.

Program Start Dates

Fall, Spring

Course Sequence

The following course sequence is recommended for a full-time student; however, the sequence is not required. Not all courses are offered each semester; a selection of courses is offered summer term. Students should consult with Program Advisor each semester.

All courses must be successfully completed with a grade of "C" or better. Students must meet minimum program entry requirements.

First Semester

PHAR 1710 Pharmacy Law and Ethics 3
PHAR 1715 Fundamentals of Pharmacy
Technology 1
PHAR 1720 Foundations of Pharmaceutical
Calculations
CHEM 1711 Principles of Chemistry4
Total Semester Credits

Second Semester

PHAR 1730 Principles of Pharmacy5	
PHAR 1735 Pharmacy Medication Technology1	
PHAR 1750 Pharmacy Internship 1 - Retail	
PHAR 2710 Fundamentals of Pharmacy	
Technology 2	
HLTH 1410 Medical Terminology1	
Total Semester Credits	
Third Semester	
PHAR 2720 Pharmacy Sterile Products Lab5	

PHAR 2720 Pharmacy Sterile Products Lab5
PHAR 2750 Pharmacy Internship 2 - Hospital4
PHIL 1722 Healthcare Ethics
ENGL 1711 Composition 14
Total Semester Credits

Fourth Semester

PHAR 2740 Pharmacotherapy of Disease Processes 4
BIOL 1730 Human Body Systems
PSYC 1710 Psychology throughout the Lifespan3
SPCH XXXX
Total Semester Credits

Total Program Credits60

Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or a grade of "C" or better in READ 0722

Writing: Score of 78+ on Reading Comprehension or a grade of "C" or better in ENGL 1415

Arithmetic: Score of 50+ on College Level Math or a grade of "C" or better in MATH 1520

Assessment Results and Prerequisites: Students admitted to Saint Paul College

programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites. 310A

Pharmacy Technician DIPLOMA

Program Overview

Pharmacy Technicians help licensed pharmacists prepare medications, provide customer service, and perform administrative duties within a variety of practice settings, including community, health system, and federal pharmacy. Pharmacy Technicians are generally responsible for receiving prescription requests, counting tablets, labeling bottles, maintaining patient profiles, preparing insurance claim forms, and performing administrative functions such as answering phones, stocking shelves, and operating cash registers.

This program prepares students to take the Pharmacy Technician Certification Exam.

Career Opportunities

Pharmacy Technicians work in retail clinic online and hospital pharmacies. Employment is expected to grow through 2014 as the population grows and ages. Employment projections indicate an increase of 32% from 2010-2020 (according to the U.S. Bureau of Labor Statistics).

Program Outcomes

- Graduates will have skills to provide medications to patients including ordering stocking and packaging.
- 2. Graduates will understand and apply skills in institutional setting in sterile product processing.
- 3. Graduates will have mastered the general education requirements for work and life.
- Graduates will be able to perform administrative duties in a variety of pharmacy related workplace settings.
- 5. Graduates will apply appropriate customer service skills in a hospital or retail based pharmacy.
- 6. Graduates will be prepared to take the Pharmacy Technician Certification Exam.
- Graduates will demonstrate an understanding of all regulations that govern pharmacy technicians.
- 8. Graduates will perform duties as a pharmacy technician in retail and hospital environments.
- 9. Graduates will demonstrate the ability to prepare and interpret pharmacy orders accurately.
- Graduates will exhibit work ethic characteristics of professionalism, responsibility and dependability.
- Graduates will apply knowledge of basic sciences to the practice of pharmacy technology.
- Graduates will demonstrate ability to communicate with patients, health care providers and colleagues.

Program Advisor

Hannah Kokesh hannah.kokesh@saintpaul.edu

Additional Program Material Costs

Students should expect to spend approximately \$250.00 beyond the cost of tuition and fees for books, supplies, certification exam and liability insurance.

Licenses/Testing

Certification Exam \$120.00

• Minnesota Board of Pharmacy Registration \$35.00

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

Course Cr
□ PHAR 1710 Pharmacy Law and Ethics
□ PHAR 1715 Fundamentals of Pharm Tech 15
PHAR 1720 Foundations of Pharmaceutical
Calculations4
PHAR 1730 Principles of Pharmacy5
PHAR 1735 Pharmacy Medication Tech 1
PHAR 1750 Pharmacy Internship 1 - Retail3
□ PHAR 2740 Pharmacotherapy of Disease
Processes
HLTH 1410 Medical Terminology
□ PSYC 1710 Psychology throughout the Lifespan3
□ BIOL 1730 Human Body Systems3
□ SPCH XXXX
Total Program Credits

Program Start Dates

Fall, Spring

Course Sequence

The following course sequence is recommended for a full-time student; however, the sequence is not required. Not all courses are offered each semester; a selection of courses is offered summer term. Students should consult with Program Advisor each semester.

All courses must be successfully completed with a grade of "C" or better. Must meet minimum program entry requirements.

First Semester

PHAR 1710 Pharmacy Law and Ethics
PHAR 1715 Fundamentals of Pharmacy
Technology 1
PHAR 1720 Foundations of Pharmaceutical
Calculations
BIOL 1730 Human Body Systems
HLTH 1410 Medical Terminology1
Total Semester Credits
Second Semester
PHAR 1730 Principles of Pharmacy5
PHAR 1735 Pharmacy Medication Technology1

PHAR 1730 Principles of Pharmacy5
PHAR 1735 Pharmacy Medication Technology1
PHAR 1750 Pharmacy Internship 1- Retail3
PHAR 2740 Pharmacotherapy of Disease Processes4
Total Semester Credits
Third Semester
PSYC 1710 Psychology throughout the Lifespan3
SPCH XXXX
SPCH XXXX
Total Semester Credits



following minimum program entry requirements: **Reading:** Score of 78+ or a grade of "C" or

better in READ 0722

Writing: Score of 78+ on Reading Comprehension or a grade of "C" or better in ENGL 1415

Arithmetic: Score of 50+ on College Level Math or a grade of "C" or better in MATH 1520

Assessment Results and Prerequisites:

Students admitted to Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites. 364D

Practical Nursing DIPLOMA

Program Overview

Under the supervision of registered nurses and physicians, licensed practical nurses provide bedside care, monitor patients, gather information, evaluate patient needs and contribute to the patient's care. Licensed practical nurses administer medications and perform treatments. Licensed practical nurses use observation, good decision-making and communication skills in caring for patients.

The Practical Nursing Diploma is designed to meet the requirements to become licensed as a Practical Nurse.

Career Opportunities

Employment of LPN's is expected to increase faster than the average for all occupations. The best opportunities will occur in nursing care facilities and home health care services. This is in response to the long-term care needs of an increasing elderly population.

Graduates may be employed in long-term care centers, clinics, home care agencies and other ambulatory care settings. Upon completion of the program, the graduate will be prepared to take the National Council Licensure Examination for Practical Nurses (NCLEX-PN).

Licensing or certification exams are independent of graduation requirements.

Program Outcomes

- The graduate will participate in the nursing process of assessment, planning, implementation and evaluation to provide basic safe and effective nursing care to patients.
- 2. The graduate will communicate effectively with patients, families, significant others and health care personnel.
- 3. The graduate will meet the student learning outcomes of the Nursing program.
- 4. The graduate will be prepared to take the NCLEX-PN licensure exam.
- 5. The graduate will be prepared for job placement in nursing care.

	is accredited by the Commission for Education CEN)
3343 Peachtr Suite 850 Atlanta, Geo	
Phone: Fax: Web site:	404.975.5000 404.975.5020 www.acenursing.org

Program Faculty

Patience Mbonifor patience.mbonifor@saintpaul.edu

Laura McClure laura.mclure@saintpaul.edu

Pepper McDonald pepper.mcdonald@saintpaul.edu

Mary Olson mary.olson@saintpaul.edu

Wossen Tsegaw wossen.tsegaw@saintpaul.edu

Part-time/Full-time Options

Part-time and full-time options are available. Some evening courses are available, but all PRNS courses must be completed days. Clinical experiences may be scheduled both days and evenings due to clinical site availability. Costs vary depending on part-time or full-time enrollment.

Application Process

Prior to submitting the Application to Practical Nursing Major form, an applicant must:

- 1. Complete the ACCUPLACER assessment and meet Minimum Program Entry Requirements (see below box).
- Complete Medical Terminology, Human Body Systems, Psychology throughout the Lifespan and English Composition, and achieve a cumulative GPA of 2.8 or better in college level courses 1000 and above with a minimum of "C" in each of the above four courses.
- 3. Attend a Practical Nursing Seminar to obtain information about the Test of Essential Academic Skills (TEAS V). An applicant must obtain an academic preparedness category of proficient or above (56% or better). The TEAS V can only be taken once.
- 4. Submit a record of the required immunizations prior to the semester in which the student registers for clinical courses.

The nursing admissions committee will review each application and determine admission on the basis of overall academic performance, including all previous college course work, GPA, ACCUPLACER assessment scores and Test of Essential Academic Skills (TEAS V) scores. Notification of acceptance into the Practical Nursing major will be sent approximately 6 weeks after the closing date stated on the Application to Practical Nursing Major form.

Required CPR course

Students are required to successfully complete a cardiopulmonary resuscitation (CPR) course prior to registering for PRNS 1482 Clinical 2. The CPR course, while required, is not part of the actual program curriculum so students may take the CPR course off-campus or enroll in HLTH 1432 CPR for the Professional Rescuer and Healthcare Provider.

Continued on back

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 78+ on Reading Comprehension or grade of "C" or better in ENGL 1415

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on ACCUPLACER assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

062D 621A (7023)

2014 - 2015

Practical Nursing DIPLOMA (continued)

Program Requirements

All classes must be successfully completed with a grade of "C" or better.

Preliminary courses and requirements:

Preliminary courses and requirements:		
The following four (4) courses, required Practical Nursing Seminar and TEAS		
Test, must be completed prior to submitting your Application to Practical		
Nursing Major form.		
Check off when completed		
HLTH 1410 Medical Terminology		
Health Core Credits 1		
□ BIOL 1730 Human Body Systems		
□ ENGL 1711 Composition 1 (Fulfills Gen. Ed. Requirement - Goal 1)4		
□ PSYC 1720 Psychology throughout the Lifespan		
(Fulfills Gen. Ed. Requirement – Goal 5)		
General Education Requirements10		
SEMINAR: Attend required Practical Nursing Seminar to receive ticket		
to take Test of Essential Academic Skills (TEAS)		
TEAS Test: Complete Test of Essential Academic Skills (TEAS)		
PRNS Core Courses Cr		
FRINS Core Courses Cr		
□ PRNS 1425 Essentials of Clinical Pharmacology2		
PRNS 2410 Psycho/Social Nursing		
□ PRNS 1435 Foundations of Nursing		
PRNS 1521 Nursing Care of Adults 1		
PRNS 1481 Clinical 1		
Evidence of current CPR certification must be presented prior to taking PRNS 1482 Clinical 2.		
□ PRNS 1482 Clinical 2		

PRNS 1482 Clinical 2
PRNS 1483 Clinical 3
□ PRNS 1524 Nursing Care of Adults 2
PRNS 1530 Maternal Child Health
PRNS 2491 Transition to Practice
PRNS Core Credits
Health Core Credits
General Education Requirements
Total Program Credits

If you have general questions on the application process please contact the administrative assistant at 651.846.1311; if you have more in-depth questions about the program itself, please contact Mary Olson, Practical Nursing Program Director, at 651.846.1379 or mary.olson@saintpaul.edu.

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended; however, this sequence is not required.

First Semester

HLTH 1410 Medical Terminology1
BIOL 1730 Human Body Systems
ENGL 1711 Composition 1 (Fulfills Gen. Ed. Requirement - Goal 1)4
PSYC 1720 Psychology throughout the Lifespan 3 (Fulfills Gen. Ed. Requirement – Goal 5) SEMINAR: Attend required Practical Nursing Seminar
to receive ticket to take Test of Essential
Academic Skills (TEAS) TEAS Test: Complete Test of Essential Academic Skills (TEAS)
Pre-Nursing Credits 11
Second Semester Practical Nursing Courses PRNS 1425 Essentials of Clinical Pharmacology2 PRNS 1435 Foundations of Nursing4 PRNS 1481 Clinical 13 PRNS 1521 Nursing Care of Adults 14 PRNS 2410 Psycho/Social Nursing2 Evidence of current CPR certification must be
presented prior to taking PRNS 1482 Clinical 2.
PRNS Core Credits15
Third Semester Practical Nursing Courses
PRNS 1482 Clinical 2
PRNS 1483 Clinical 33 PRNS 1524 Nursing Care of Adults 23
PRNS 1530 Maternal/Child Health
PRNS 2491 Transition to Practice2
PRNS Core Credits

Total Program Credits40

2014 - 2015

Respiratory Therapist AAS DEGREE

Program Overview

Respiratory Therapists administer gas therapy, aerosol medications, various breathing treatments, and chest physiotherapy. They provide mechanical ventilation, special diagnostic and therapeutic procedures, and cardiopulmonary resuscitation. Laboratory procedures including pulmonary function testing and arterial blood-gas analysis are also performed.

Preparation best suited for this program includes excellent reading skills, biology, chemistry and physics. High school algebra is required for this program. Further, one should have good manual dexterity and an ability to lift fifty pounds.

Upon completion of the program the student is eligible to take the National Certification exam. Certification is independent of graduation requirements and licensure.

Career Opportunities

Employment of respiratory therapists is expected to increase much faster than the average for all occupations because of substantial growth of the middle-aged and elderly population, a development that will heighten the incidence of cardiopulmonary disease. Respiratory Therapists are employed by hospitals, clinics or laboratories and home care agencies. Graduates may find employment through contacts made during the clinical training experiences and employment requests received by the instructional staff.

Licensing or certification exams are independent of graduation requirements.

Program Outcomes

- Graduates will have demonstrated knowledge and skills in Respiratory Therapy clinical experiences.
- Graduates will have demonstrated knowledge and skills in Respiratory Therapy clinical simulations.
- 3. Graduates will be prepared to take the National Certification Exam.
- 4. Graduates will be prepared for employment as Respiratory Therapists.
- 5. Graduates will have successfully mastered the general education program requirements for work and life roles.

Program Faculty

Joseph Buhain joseph.buhain@saintpaul.edu Kathy Ross kathy.ross@saintpaul.edu

Full-Time Only

Students in this program must be enrolled fulltime with a cohort of students. Technical courses are offered only during the day.

Textbook and Supply Costs

Students should expect to spend approximately \$2,000, beyond the cost of tuition and fees, for books, for lab coat and other supplies. Additional costs include an ACLS, PALS, BLS course.

Saint Paul College's Respiratory Therapist Program is accredited by the Commission on Accreditation for Respiratory Care (www.coarc.com).

Commission on Accreditation for Respiratory Care 1248 Harwood Road Bedford, TX 76021-4244 Phone: 817.283.2835

Transfer Opportunities

Saint Paul College has transfer articulation agreements between the following program and post-secondary institutions for the baccalaureate degree programs listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Respiratory Therapist AAS

- BS Pulmonary Science Concordia University
- BS Applied Health University of Minnesota, Crookston
- BAS Healthcare Leadership & Administration Winona State University

Application Process

In addition to completing the regular Saint Paul College application and admission process, students interested in the Respiratory Therapist program must submit a completed Application to Respiratory Therapist Major form and meet the following criteria:

• Completion of the following required General Education courses:

BIOL 1740 General Biology 1: The Living Cell ENGL 1711 English Composition

• Documented readiness for, or completion of, the following required General Education course:

CHEM 1711 Principles of Chemistry 1 Prerequisite for Chemistry 1 is MATH 1520 Intermediate Algebra or appropriate assessment score.

- GPA of 3.0 or above
- Meet with Respiratory Therapist Clinical Director or Program Director prior to application deadline.

The Respiratory Therapist Admissions Committee will review each application on the basis of overall academic ability, GPA of college level courses, assessment scores, and meeting the above criteria. Notification of acceptance into the Respiratory Therapist Major will be sent by mail 6-weeks after the deadline date stated on the Application to Respiratory Therapist Major form.

The <u>Application to Respiratory Therapist Major</u> form is available on the Respiratory Therapist Program Web page www.saintpaul.edu/RespTher

> Program Requirements and Course Sequence information on back

Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

063A (623A) (7045)

Respiratory Therapist AAS DEGREE (continued)

Program Requirements

All classes must be successfully completed with a grade of "C" or better. ☑ Check off when completed **Program Prerequisite** HLTH 1410 Medical Terminology (1cr) Preliminary courses and requirements:

Pre-Application to Respiratory Therapist Courses

remnary courses and requirements.
Pre-Application to Respiratory Therapist Courses Cr
 The following two (2) General Education courses must be completed prior to submitting your Application to Respiratory Therapist Major form. BIOL 1740 General Biology 1: The Living Cell (MnTC Goal4)
General Education Requirements Subtotal
Preliminary courses Cr
The following four (4) courses and CPR must be completed before you will be allowed to register for the remaining Core RESP courses. HLTH 1420 Anatomy & Physiology
of "C" or beter will be completed within second year of college program.
RESP Core Courses Cr
RESP 1510 Cardiopulmonary Pathophysiology 1
General Education/MnTC Requirements Cr
Must complete at least 22 total credits from the Minnesota Transfer Curriculum- MnTC. Below are the final two required MnTC courses. Goal 1: Communication (SPCH XXXX required)
Health Core Credits Total. 4 General Education Requirements Total 22 RESP Core Courses Total 52

Program Start Dates

Spring

Course Sequence

The following Course Sequence is required for the remaining RESP Core Courses and General Education Courses:

Program Major Begins

Program Major Begins
Spring Semester (RESP Core Courses – Year 1)RESP 1510 Cardiopulmonary Pathophysiology 1 3RESP 1521 Respiratory Care Therapeutics 4RESP 1522 Respiratory Care Therapeutics Lab 1RESP 1540 Respiratory Care Pharmacology 2RESP 1591 Respiratory Care Clinical 1
Summer Term (Program Major – Year 1)RESP 1592 Respiratory Care Clinical 2
Fall Semester (RESP Core Courses – Year 2)RESP 1593 Respiratory Care Clinical 3 4RESP 2430 Neonatal/Pediatric Respiratory Care 2RESP 2440 Management of the Critically III Patient 4RESP 2510 Survey of Human Disease
Spring Semester (RESP Core Courses – Year 2)RESP 1594 Respiratory Care Clinical 4RESP 2470 Registry Review
Summer Term (RESP Core Courses – Year 2)RESP 1596 Respiratory Care Clinical 5Total Summer Term Credits5

Clinical Sports Massage AAS DEGREE

Program Overview

The AAS in Clinical Sports Massage builds upon the existing Certificate Program. Students are trained in specific Clinical Sports Massage techniques and pathologies. Upon completion of the 1500 hour program, students will be eligible to apply for National Certification for Advanced Practice (NCAP).

Massage therapists manipulate soft tissue structures of the body to prevent and alleviate pain, using techniques such as Swedish Massage, Reflexology, Sports Massage, Neuromuscular Therapy, Myofascial Release, Lymphatic Drainage, and PNF and AIS stretching techniques, and Travel Trigger Point Therapy. Graduates of the Clinical Sports Massage program perform all of the skills in the certificate program and learn to perform thorough patient assessments and develop care plans based on assessments. Students implement care plans utilizing carefully selected techniques for the given disorders including recommended exercises for the client.

Career Opportunities

The employment outlook for massage therapists is projected to be better than average in the upcoming years. The increasing population, increasing personal incomes, longer life spans, and an increasing recognition that massage is beneficial to reduce stress, relieve pain, and improve overall health all contribute to an increased demand for these workers. Factors affecting long term growth include economic well-being and the degree to which insurance companies and HMOs will reimburse for this service. Graduates perform massage therapy in health spas, resorts, health clubs, retirement residences, country clubs, hospitals, chiropractic offices, long-term care facilities, and clinics, or may be self-employed.

Licensing or certification exams are independent of graduation requirements.

Program Outcomes

- Graduates will provide application of manual techniques to positively contribute to the well-being of the client in a safe and skillful manner.
- Graduates will be prepared to take the national certification exam in medical massage therapy.
- 3. Graduates will be prepared for employment in an entry-level capacity
- 4. Graduates will be prepared to take the National Certification for Advanced Practice (NCAP) exam.
- 5. Graduates will be prepared for employment in a sports and rehabilitation environment.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

Jeremy Sartain jeremy.sartain@saintpaul.edu Nick Bohrer nick.bohrer@saintpaul.edu

Day and Evening Classes

Classes may be offered day and evening.

Textbook and Supply Costs

Students should expect to spend approximately \$1,500.00 for books and supplies. (Does not include massage table) This cost is in addition to tuition and fees.

Program Requirements

All technical courses (HLTH, MASS) must be successfully completed with a grade of "C" or better.

☑ Check off when completed

Cr Course □ HLTH 1418 Somatic Practitioner: Business & □ HLTH 1421 Anatomy & Physiology for Somatic Practitioners......4 HLTH 1422 Wellness Coaching......4 □ HLTH 1425 Clinical Applications in Kinesiology....3 □ HLTH 1465 Functional Holistic Nutrition4 □ HLTH 1485 Therapeutic Exercise5 □ HLTH 1900 Pathology for the Somatic Practitioner .4 □ MASS 1400 Introduction to Therapeutic Massage .4 □ MASS 1421 Massage Spa Techniques2 □ MASS 1422 Massage Clinical Techniques4 □ A CPR course/certificate must be completed prior to taking MASS 1480 Massage Therapy Practicum □ MASS 1423 Advanced Clinical Sports Massage Techniques.....5 □ MASS 1480 Massage Therapy Practicum......4 General Education/MnTC Requirements Cr Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

Program Start Dates

Fall, Spring, Summer

Course Sequence

Please contact Jeremy Sartain at 651.846.1619 or e-mail: jeremy.sartain@saintpaul.edu or Nick Bohrer at 651.846.1695 or e-mail: nick.bohrer@saintpaul.edu for individual semester course sequence.

Transfer Opportunities

Saint Paul College has transfer articulation agreements between the following program and post-secondary institutions for the baccalaureate degree programs listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Clinical Sports Massage AAS

- BA Kinesiology
- Concordia University
- BS Allied Healthcare Management Saint Mary's University-Twin Cities Campus
- BAS Healthcare Leadership & Administration Winona State University

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

316A (7088)

Massage Therapy CERTIFICATE

Program Overview

The Massage Therapy Certificate program exceeds the minimum requirement of 600 technical hours of study required for accreditation by the American Massage Therapy Association Commission on Massage Therapy Accreditation and 600 hours of study for state licensure required in surrounding states.

Massage Therapists manipulate soft tissue structures of the body to prevent and alleviate pain, using techniques such as Swedish Massage, Reflexology, Sports Massage, Neuromuscular Therapy, Myofascial Release, Lymphatic Drainage, PNF and AIS stretching techniques, and Travel Trigger Point Therapy. Graduates of the certificate program integrate manual massage techniques to positively contribute to the well-being of the client in a safe and skillful manner.

Career Opportunities

The employment outlook for massage therapists is projected to be better than average in the upcoming years. The increasing population, increasing personal incomes, longer life spans, and an increasing recognition that massage is beneficial to reduce stress, relieve pain, and improve overall health all contribute to an increased demand for these workers. Factors affecting long term growth include economic well-being and the degree to which insurance companies and HMOs will reimburse for this service. Graduates perform massage therapy in health spas, resorts, health clubs, retirement residences, country clubs, hospitals, chiropractic offices, long-term care facilities, and clinics, or may be self-employed.

Licensing or certification exams are independent of graduation requirements.

Program Outcomes

- Graduates will provide application of manual techniques to positively contribute to the well-being of the client in a safe and skillful manner.
- 2. Graduates will be prepared to take the national certification exam in massage therapy.
- 3. Graduates will be prepared for employment in an entry-level capacity.

Program Faculty

Jeremy Sartain jeremy.sartain@saintpaul.edu Nick Bohrer nick.bohrer@saintpaul.edu

Day and Evening Classes

Day and evening options are available to complete the program.

Textbook and Supply Costs

Students should expect to spend approximately \$900.00 for books and supplies. (Does not include massage table.) This cost is in addition to tuition and fees.

Program Requirements

All technical courses (HLTH, MASS) must be successfully completed with a grade of "C" or better. ☑ Check off when completed

Course Cr
HLTH 1418 Somatic Practitioner:
Business & Ethics
HLTH 1421 Anatomy and Physiology for Somatic
Practitioners4
□ HLTH 1425 Clinical Applications in Kinesiology3
□ HLTH 1465 Functional Holistic Nutrition4
□ MASS 1400 Introduction to Therapeutic Massage .4
□ MASS 1421 Massage Spa Techniques
□ MASS 1422 Massage Clinical Techniques4
\Box A CPR course/certificate must be completed prior
to taking MASS 1480 Massage Therapy Practicum
□ MASS 1480 Massage Therapy Practicum4
Subtotal
□ General Education Requirement
PSYC 1750 Intro to Health Psychology
(recommended)

Program Start Dates

Fall, Spring

Course Sequence

Please contact Jeremy Sartain, program faculty advisor, at 651.846.1619 or e-mail: jeremy.sartain@saintpaul.edu or Nick Bohrer at 651.846.1695 or e-mail: nick.bohrer@saintpaul.edu for individual semester course sequence.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Massage Therapy Certificate

BA Kinesiology Concordia University

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

197C (7085)

Clinical Sports Massage Advanced Certificate

Program Overview

Designed for Massage Therapists who have graduated from a 600 hour or more program, the Clinical Sports Massage Advanced Certificate builds on basic foundational massage therapy skills. Graduates of the Clinical Sports Massage Advanced Certificate perform thorough patient assessments and develop care plans based on assessments. Students implement care plans utilizing carefully selected techniques for the given disorders, including recommended exercises for the client. Clinical Sports Massage techniques include, but are not limited to, friction therapy, trigger point therapy, active and passive engagement techniques, scraping technique, cupping with drag, fascial release techniques, manual lymphatic drainage and advanced stretching modalities.

Career Opportunities

Huge growth in age group sports such as triathlon, running, skiing, soccer, rugby and hockey, have lead to more people returning to a sporting lifestyle than ever before. The direct correlation is an increase in injuries and/ or need for prevention of injury. With increased proven results utilizing various soft tissue manual therapies, more people are relying on well trained Clinical Sports Massage Therapists to alleviate and/or prevent injury. There is a large demand for Clinical Sports Massage Therapists in rehabilitation facilities, sports chiropractic offices, onsite sports events, health clubs, and with self employment. The Clinical Sports Massage Advanced Certificate qualifies graduates to apply for the National Certification for Advanced Practice (NCAP) exam. All classes within this curriculum qualify as continuing education for massage therapy.

Program Outcomes

- Graduates will provide application of manual techniques to positively contribute to the well-being of the client in a safe and skillful manner.
- Graduates will be prepared to take the National Certification Exam for Advanced Practice (NCAP) and/or the National Certification Exam for Therapeutic Massage and Bodywork (NCTMB).
- 3. Graduates will be well prepared for employment in a Clinical Sports Massage Therapy capacity.

Program Faculty

Jeremy Sartain jeremy.sartain@saintpaul.edu Nick Bohrer nick.bohrer@saintpaul.edu Karen Kraus karen.kraus@saintpaul.edu

Day and Evening Classes

Currently offered as day classes only. Web enhanced does limit seat time.

Textbook and Supply Costs

Students should expect to spend approximately \$700.00 for books and supplies. (Does not include massage table) This cost is in addition to tuition and fees.

Program Requirements

All technical courses (HLTH, MASS) must be successfully completed with a grade of "C" or better.

☑ Check off when completed

Course	Cr
□ HLTH 1422 Wellness Coaching	.4
□ HLTH 1485 Therapeutic Exercise	.5
□ HLTH 1900 Pathology for the Somatic	
Practitioner	.4
MASS 1423 Advanced Clinical Sports	
Massage Techniques	.5
MASS 1490 Internship	.5

Total Program Credits23

Program Start Dates

Fall, Spring, Summer

Course Sequence

For individual course sequence recommendations, contact Jeremy Sartain at 651.846.1619 or email jeremy.sartain@saintpaul.edu.

Minimum Program Entry Requirements

Completion of a minimum 600 hour massage therapy program that is recognized by the National Certification Board for Therapeutic Massage and Bodywork (NCTMB). Note that admitted students do not need to be nationally certified but the program previously completed must qualify for national certification.

319C (7168)

Personal Trainer AAS DEGREE

Program Overview

Personal Trainers instruct clientele in the betterment of their health through an integrated approach using sound knowledge of appropriate exercises. Functional training techniques, aerobic exercises, advanced stretching modalities (such as PNF and AIS) are implemented appropriately based on initial fitness testing. Graduates from the program perform patient assessments and build customized fitness plans for individuals including clients with special needs. Methods of teaching various group fitness classes and nutritional consulting are also utilized.

Career Opportunities

The US Bureau of Labor and Statistics listed Personal Fitness Trainer as above average growth. IHRSA shows growth of fitness memberships from 41.3 million in 2005 to 50.2 million in 2012. Graduates perform personal training duties at fitness centers, health clubs, private clubs, sports rehabilitation facilities, or may work in private practice.

Program Outcomes

- 1. Graduates will provide application of personal training techniques to positively contribute to the well-being of the client in a safe and skillful manner.
- 2. Graduates will be prepared to take the National Academy of Sports Medicine (NASM) exam for Certification in Personal Training (CPT).
- 3. Graduates will be prepared for employment as Personal Trainers.
- 4. Graduates will be prepared to take the National Academy of Sports Medicine (NASM) exam for Corrective Exercise Specialist (CES).
- 5. Graduates may obtain membership with National Association of Nutrition Professionals (NANP).
- 6. Graduates will be prepared to perform Wellness Coaching services.

Program Faculty

Jeremy Sartain jeremy.sartain@saintpaul.edu Karen Kraus karen.kraus@saintpaul.edu

Day and Evening Classes

Classes may be offered day and evening.

Textbook and Supply Costs

Students should expect to spend approximately \$1,300.00 for books and supplies. This cost is in addition to tuition and fees.

Program Requirements

All technical courses (HLTH, PTRN) must be successfully completed with a grade of "C" or better.

Check off when completed

Course	Cr
HLTH 1418 Somatic Practitioner:	
Business & Ethics	2
HLTH 1421 Anatomy & Physiology for the	
Somatic Practitioner	4
□ HLTH 1422 Wellness Coaching	4
□ HLTH 1425 Clinical Applications in Kinesiology	3
HLTH 1900 Pathology for the	
Somatic Practitioner	4
□ HLTH 1465 Functional Holistic Nutrition	4
□ HLTH 1485 Therapeutic Exercise	5
PTRN 1410 Personal Training 1	5
PTRN 1420 Personal Training 2	5
□ PTRN 1430 Functional Exercise Physiology	3
□ PTRN 1490 Personal Training Internship	
Subtotal	44
General Education/MnTC Requirements	Cr
Refer to the Minnesota Transfer Curriculum Cours	se List
for each Goal Area	-
Goal 1: Communication	/
ENGL 1711 Composition 1 (required) – 4 cr	
SPCH XXXX (required) (Goal 1 only) – 3 cr	2
	3
BIOL 1760 Nutrition - 3 cr (recommended)	
Goal 5: History, Social Science and	2
Behavioral Sciences PSYC 1750 Introduction to Health	3
Psychology – 3 cr (recommended)	2
□ Goal 6: Humanities and Fine Arts	3

Total Program Credits60

Program Start Dates

Fall, Spring

Course Sequence

For individual course sequence recommendations, contact Jeremy Sartain at 651.846.1619 or e-mail jeremy.sartain@saintpaul.edu, or contact Karen Kraus at 651.846.1630 ext. 5715 or e-mail karen.kraus@saintpaul.edu.

Transfer Opportunities

Saint Paul College has transfer articulation agreements between the following program and post-secondary institutions for the baccalaureate degree programs listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Personal Trainer AAS

- BA Kinesiology Concordia University
- BS Allied Healthcare Management Saint Mary's University-Twin Cities Campus
- BAS Healthcare Leadership & Administration Winona State University

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

275A (7139)

Personal Trainer DIPLOMA

Program Overview

Personal Trainers instruct clientele in the betterment of their health through an integrated approach using sound knowledge of appropriate exercises. Functional training techniques, aerobic exercises, and advanced stretching modalities (such as PNF and AIS) are implemented appropriately based on initial fitness testing. Graduates from the program perform patient assessments and build customized fitness plans for individuals including clients with special needs. Methods of teaching various group fitness classes and nutritional consulting are also utilized.

Career Opportunities

The US Bureau of Labor and Statistics listed Personal Fitness Trainer as above average growth. IHRSA shows growth of fitness memberships from 41.3 million in 2005 to 50.2 million in 2012. Graduates perform personal training duties at fitness centers, health clubs, private clubs, sports rehabilitation facilities, or may work in private practice.

Program Outcomes

- 1. Graduates will provide application of personal training techniques to positively contribute to the well-being of the client in a safe and skillful manner.
- 2. Graduates will be prepared to take the National Academy of Sports Medicine (NASM) exam for Certification in Personal Training (CPT).
- 3. Graduates will be prepared for employment as a Personal Trainer.

Program Faculty

Jeremy Sartain jeremy.sartain@saintpaul.edu Karen Kraus karen.kraus@saintpaul.edu

Day and Evening Classes

Classes may be offered day and evening.

Textbook and Supply Costs

Students should expect to spend approximately \$1,000.00 for books and supplies. This cost is in addition to tuition and fees.

Program Requirements

All technical courses (HLTH, PTRN) must be successfully completed with a grade of "C" or better. ☑ Check off when completed

Course Cr
HLTH 1418 Somatic Practitioner:
Business & Ethics
HLTH 1421 Anatomy & Physiology for the
Somatic Practitioner4
□ HLTH 1422 Wellness Coaching
□ HLTH 1425 Clinical Applications in Kinesiology3
□ HLTH 1465 Functional Holistic Nutrition4
□ HLTH 1485 Therapeutic Exercise
HLTH 1900 Pathology for the
Somatic Practitioner
□ PTRN 1410 Personal Training 1
□ PTRN 1420 Personal Training 25
□ PTRN 1430 Functional Exercise Physiology 3
□ PTRN 1490 Personal Training Internship5
Subtotal
□ General Education Requirement
PSYC 1750 Introduction to Health Psychology
(recommended)

Total Program Credits 47

Program Start Dates

Fall, Spring

Course Sequence

For individual course sequence recommendations, contact Jeremy Sartain at 651.846.1619 or e-mail jeremy.sartain@saintpaul.edu, or contact Karen Kraus at 651.846.1630 ext. 5715 or e-mail karen.kraus@saintpaul.edu.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Personal Trainer Diploma

BA Kinesiology Concordia University

Minimum Program Entry Requirements Students entering this program must meet the

following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

274D (7138)

Personal Trainer CERTIFICATE

Program Overview

Personal Trainers instruct clientele in the betterment of their health through an integrated approach using sound knowledge of appropriate exercises. Functional training techniques, aerobic exercises and advanced stretching modalities (such as Proprioceptive Neuromuscular Facilitation (PNF) and Active Isolated Stretching (AIS)) are implemented appropriately based on initial and continuous fitness testing. Graduates from the Personal Trainer Certificate program perform patient assessments and build customized fitness plans for individuals.

Career Opportunities

The US Bureau of Labor and Statistics listed the Personal Fitness Trainer as one of the top overall job openings requiring Post- Secondary Vocational School training. Employment of fitness trainers and instructors is expected to grow by 24 percent from 2010 to 2020, faster than the average for all occupations. As businesses and insurance organizations continue to recognize the benefits of health and fitness programs for their employees, incentives to join gyms or other fitness facilities will increase the need for workers in these areas. In 2010 there were 251,400 full time Personal Fitness Trainers.

Graduates perform personal training duties at fitness centers, health clubs, private clubs, sports rehabilitation facilities, or may work in a private practice.

Licensing or certification exams are independent of graduation requirements.

Program Outcomes

- 1. Graduates will provide application of personal training techniques to positively contribute to the well-being of the client in a safe and skillful manner.
- 2. Graduates will be prepared to take the National Academy of Sports Medicine (NASM) exam for Certification in Personal Training (CPT).
- 3. Graduates will be prepared to take the National Academy of Sports Medicine (NASM) exam for Corrective Exercise Specialist (CES).
- Graduates may obtain membership with the National Association of Nutrition Professionals (NANP).
- 5. Graduates will be prepared to perform Wellness Coaching services.
- 6. Graduates will be prepared for employment as Personal Trainers.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

Jeremy Sartain jeremy.sartain@saintpaul.edu Karen Kraus karen.kraus@saintpaul.edu

Day and Evening Classes

Classes may be offered day and evening.

Textbook and Supply Costs

Students should expect to spend approximately \$1,000.00 for books and supplies. This cost is in addition to tuition and fees.

Program Requirements

All technical courses (HLTH, PTRN) must be successfully completed with a grade of "C" or better.

☑ Check off when completed

Course Cr
HLTH 1418 Somatic Practitioner:
Business and Ethics
HLTH 1421 Anatomy and Physiology for the
Somatic Practitioner
□ HLTH 1422 Wellness Coaching
□ HLTH 1425 Clinical Applications in Kinesiology3
□ HLTH 1465 Functional Holistic Nutrition4
□ HLTH 1485 Therapeutic Exercise5
PTRN 1410 Personal Trainer 1
Subtotal
□ General Education Requirement
PSYC 1750 Introduction to Health Psychology
(recommended)
Total Program Credits

Program Start Dates

Fall, Spring

Course Sequence

For individual course sequence recommendations, contact Jeremy Sartain at 651.846.1619 or e-mail jeremy.sartain@saintpaul.edu, or contact Karen Kraus at 651.846.1630 ext. 5715 or e-mail karen.kraus@saintpaul.edu.

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

274C

Yoga Instructor Training CERTIFICATE LEVEL 1 / 200 HOUR

Program Overview

Yoga instructors teach the principles of yoga including how it strengthens and tones the body as well as calms the mind and spirit. Yoga instructors teach students in specific methods of yoga.

The 200 hour yoga teacher training required for certification includes information about possible health benefits from yoga practice such as building one's core strength, improving overall flexibility and developing overall muscle tone. This program also provides training in identifying potential contraindications to yoga for individuals with certain health conditions.

Career Opportunities

Yoga instructors are listed under the main category of fitness workers with Department of Labor. Training for yoga instructors is ever changing. According to the US Department of Labor Statistics, demand for teachers of yoga has grown faster than the ability to train them properly as the interest in yoga exercise has exploded in recent years. Saint Paul College's program is designed to meet the Yoga Aliiance 200 hour standards.

As health clubs strive to provide more personalized service to keep their members motivated, they continue to offer a wide variety of group exercise classes. The aging population, in particular, demand low-impact forms of exercise which yoga provides.

Yoga instructors work in: HMOs in the areas of heart health and pregnancy, wellness centers, studios with massage therapists, fitness centers, educational institutions, conference centers, chiropractic offices, spas, community education, yoga studios and cruise ships.

Program Outcomes

- 1. Graduates will be prepared to instruct students in the principles of yoga.
- 2. Graduates will recognize indications and contraindications to yoga practice.
- 3. Graduates will meet the Yoga Alliance Standards of Yoga Teacher Training.

Program Faculty

Chris Gordon chris.gordon@saintpaul.edu

Equipment Needed

Students should expect to bring to class a yoga mat and blanket.

Program Length

Full-time students can complete the program in one semester.

Part-time Options

For part-time options, discuss with program faculty.

Program Requirements

Total Program Credits16

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required.

2014 - 2015

First Semester

HLTH 1420 Anatomy and Physiology 4 HLTH 1455 Yoga Postures/Asanas 2	
HLTH 1456 Yoga Relaxation Techniques	
HLTH 1457 Yoga Postures 2 2	
HLTH 1540 Introduction to Techniques	
for the Yoga Instructor	
General Education Requirement	
Total Program Credits	

This is a Yoga Alliance Accredited Program.





Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

288C (7154)

Service Programs

Child Development

Child Development Careers AS Degree (60 Credits) 156
Child Development Careers ASL AS Degree
(60 Credits)
Child Development Careers AAS Degree (60 Credits) 160
Child Development Careers Diploma (32 Credits) 162
Child Development Careers Certificate (16 Credits)163

Cosmetology

Cosmetology AAS Degree (72 Credits)	164
Cosmetology Diploma (59 Credits)	166
Nail Care Technician Certificate (16 Credits)	168

Culinary Arts

Culinary Arts AAS Degree (68 Credits)	169
Culinary Arts Diploma (55 Credits)	171
Baking and Decorating Certificate (9 Credits)	172
Short Order Cooking Certificate (25 Credits)	173
Wine Professional Certificate (9 Credits)	174
Wine and Artisan Foods Certificate (17 Credits)	175

Sign Language Interpreter/Transliterator

Sign Language Interpreter/Transliterator AAS Degree	
(67 Credits)	

Child Development Careers AS DEGREE

Program Overview

This program is intended primarily for students who plan to transfer to another college or university to complete a bachelor's degree in Early Childhood or related field. It also prepares individuals for employment as a Teacher in a variety of early childhood settings.

Students will learn about child development, guidance, health and safety, cultural sensitivity, professional relations, and curriculum planning, as well as liberal arts education. Internship opportunities are provided which allow students to apply their skills and knowledge in a practical experience. All students must meet all reading and writing program entry requirements prior to entering courses beyond the Certificate.

Students must have a high school diploma, or GED, and pass a criminal background study. Respect for cultural differences is essential. Good judgment and absolute integrity are also necessary for success in the field of child development.

Career Opportunities

Graduates of the Child Development AS program may seek further education to earn a degree in early childhood education, early childhood special education, child development and family studies, psychology, or social work, but will also qualify to work at a child care center or preschool program, a family child care home or nanny, as well as a teacher in a Head Start program, a teacher assistant or education assistant in the public schools, Early Childhood Family Education, Early Childhood Special Education, or Child Life Assistant (hospital setting). If students go on for more education, the career opportunities (and pay scale) continue to increase.

The demand for trained child development professionals is increasing as more parents seek quality care and educational programs for their children. Our job placement rate is well over 95% and the Bureau of Labor Statistics estimates that the employment outlook will grow faster than average through 2018.

Program Outcomes

- 1. Graduates will demonstrate knowledge of child safety, health and nutrition.
- 2. Graduates will demonstrate knowledge in the fundamental principles of child development and developmentally appropriate practices.
- 3. Graduates will demonstrate knowledge and skills in positive child guidance techniques.
- Graduates will demonstrate the knowledge and skills in positive family, community, and staff relations.
- 5. Graduates will demonstrate the knowledge and skills in developing and implementing early childhood curriculum.
- 6. Graduates will have hands-on training in a variety of Child Development settings.
- 7. Graduates will possess the knowledge and skills for immediate employment in the Child Development field.
- 8. Graduates will have successfully mastered the general education program requirements for work and life roles.

Program Faculty

Students should consult with the Program Advisor each semester.

Kelly McKown kelly.mckown@saintpaul.edu Janet Massa janet.massa@saintpaul.edu

Part-time/Full-time Options

Evening, Saturday, and online courses are also available. Costs vary depending on part-time or full-time enrollment.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Child Development Careers AS

BS Human Development & Family Studies University of Wisconsin-Stout

Program Requirements

☑ Check off when completed

Course Cr
CDEV 1200 Introduction to Early
Childhood Education
□ CDEV 1210 Child Growth and Development3
□ CDEV 1220 Health, Safety and Nutrition3
□ CDEV 1230 Guiding Children's Behavior
□ CDEV 1240 Learning Environment and Curriculum . 4
□ CDEV 1316 Observation and Assessment 3
Not offered every semester, see Advisor
CDEV 2640 Curriculum Planning3
Not offered every semester, see Advisor
CDEV 1910 Practicum 1
CDEV 2320 Children with Differing Abilities (Fall)3
CDEV 2600 Organizational Leadership and
Management (Spring)
Subtotal
General Education/MnTC Requirements Cr
Refer to the Minnesota Transfer Curriculum Course List for each Goal Area
□ Goal 1: Communication7
ENGL 1711 Composition 1 (required) – 4 cr
SPCH XXXX (required) (Goal 1 only) – 3 cr
□ Goal 3 or Goal 4
Goal 3: Natural Sciences OR
Goal 4: Mathematical/Logical Reasoning
Goal 5: History, Social Science and
Behavioral Sciences4
any may be taken, however ANTH 1710
PSYC 1710 OR PSYC 1760
SOCI 1710 OR SOCI 1760 (recommended)
□ Goal 6: Humanities and Fine Arts
□ Goals 1-10 of the Minnesota Transfer Curriculum .13
Select a minimum of 13 additional credits
General Education Requirements
Total Program Credits60

See back of guide for Course Sequence

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 1510

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

247S (7131)

Child Development Careers AS DEGREE (continued)

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Not all courses are offered each semester; a selection of courses is offered summer term.

First Semester

CDEV 1200 Introduction to Early
Childhood Education
CDEV 1210 Child Growth and Development 3
CDEV 1220 Health, Safety and Nutrition3
CDEV 1230 Guiding Children's Behavior3
CDEV 1240 Learning Environment & Curriculum 4
Total Semester Credits16

All students must meet all reading and writing program entry requirements prior to entering courses beyond the Certificate. CDEV 1200, 1210, 1220, 1230, and 1240 must be completed before taking second semester courses.

Second Semester

CDEV 1316 Observation and Assessment3
Not offered every semester, see Advisor
CDEV 2640 Curriculum Planning3
Not offered every semester, see Advisor
CDEV 1910 Practicum 13
General Education Requirement7
Total Semester Credits

Third Semester

CDEV 2320 Children with Differing Abilities
Not offered every semester, see Advisor
General Education Requirements
Total Semester Credits

Fourth Semester

CDEV 2600 Organizational Leadership and
Management
Not offered every semester, see Advisor
General Education Requirements
Total Semester Credits
Total Program Credits

Program Overview

This program is intended primarily for students who plan to transfer to another college or university to complete a bachelor's degree in Early Childhood or related field. Students will learn about child development, guidance, health and safety, cultural sensitivity, professional relations, and curriculum planning, as well as liberal arts education. Lab and Practicum opportunities are provided which allow students to apply their skills and knowledge in a practical experience. All students must meet all reading and writing program entry requirements prior to entering courses beyond the Certificate.

Students must have a high school diploma, or GED, and pass a criminal background study. Respect for cultural differences is essential. Good judgment and absolute integrity are also necessary for success in the field of child development.

Career Opportunities

Graduates of the Child Development Careers ASL AS Degree program may seek further education to earn a degree in early childhood education, early childhood special education, child development and family studies, psychology, or social work, but will also qualify to work at a child care center or preschool program, a family child care home or nanny, as well as a teacher in a Head Start program, a teacher assistant or education assistant in the public schools, Early Childhood Family Education, Early Childhood Special Education, or Child Life Assistant (working with children in a hospital setting).

Since this degree has a focus on using ASL in an early childhood setting, it increases employability for our graduates. If students go on for more education, the career opportunities (and pay scale) also increase. The demand for trained child development professionals continues to increase as more parents seek quality care and educational programs for their children. Our job placement rate is well over 95% and the Bureau of Labor Statistics estimates that the employment outlook will grow faster than average through 2018.

Program Outcomes

- 1. Graduates will demonstrate knowledge of child safety, health and nutrition.
- Graduates will demonstrate knowledge in the fundamental principles of child development and developmentally appropriate practices.
- Graduates will demonstrate knowledge and skills in positive child guidance techniques.
- Graduates will demonstrate the knowledge and skills in positive family, community, and staff relations.
- 5. Graduates will demonstrate the knowledge and skills in developing and implementing early childhood curriculum.
- 6. Graduates will have hands-on training in a variety of Child Development settings.
- 7. Graduates will possess the knowledge and skills for immediate employment in the Child Development field.
- 8. Graduates will have successfully mastered the general education program requirements for work and life roles.

Program Faculty

Students should consult with the Program Advisor each semester.

Kelly McKown kelly.mckown@saintpaul.edu Janet Massa janet.massa@saintpaul.edu

Part-Time/Full-time Options

Part-time and full-time options are available. Evening, Saturday, and online courses are also available. Costs vary depending on part-time or full-time enrollment.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Child Development Careers ASL AS

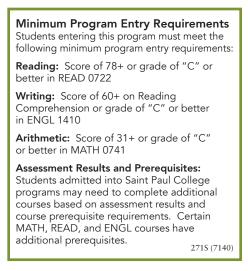
BS Human Development & Family Studies University of Wisconsin-Stout

Program Requirements

Check off when completed

Check off when completed	Cr
CDEV 1200 Introduction to Early Childhood	0.
	2
□ CDEV 1210 Child Growth and Development	
□ CDEV 1220 Health, Safety and Nutrition	
□ CDEV 1220 Fielding Children's Behavior	
□ CDEV 1240 Learning Environment and Curriculu	
□ CDEV 2320 Children with Differing Abilities (Fal	
□ CDEV 2560 Language & Literature Learning	.,
Experiences (Fall)	3
□ CDEV 2599 Practicum 1: Special Settings/ASL .	
□ ASLS 1411 American Sign Language 1	
□ ASLS 1412 American Sign Language 2	
Subtotal	30
	~
General Education/MnTC Requirements	C
Refer to the Minnesota Transfer Curriculum Course for each Goal Area	e List
for each Goal Area	
Goal 1: Communication	7
ENGL 1711 Composition 1 (required) – 4 cr	
SPCH XXXX (required) (Goal 1 only) – 3 cr	
□ Goal 3 or Goal 4	3
Goal 3: Natural Sciences OR	
Goal 4: Mathematical/Logical Reasoning	
Goal 5: History, Social Science and	
Behavioral Sciences	4
any may be taken, however ANTH 1710 PSYC 1710 OR PSYC 1760	
SOCI 1710 OR SOCI 1760 are recommended	
□ Goal 6: Humanities and Fine Arts	-
□ Goals 1-10 of the Minnesota Transfer Curriculur	
Select a minimum of 13 additional credits	
General Education Requirements	30
·	
Total Program Credits	60

See back of guide for Course Sequence



Child Development Careers ASL AS DEGREE (continued)

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Not all courses are offered each semester; a selection of courses is offered summer term.

Students should consult with the program advisor each semester.

First Semester

CDEV 1200 Introduction to Early
Childhood Education
CDEV 1210 Child Growth and Development3
CDEV 1220 Health, Safety and Nutrition
CDEV 1230 Guiding Children's Behavior
ASLS 1411 American Sign Language 13
Total Semester Credits15

All students must meet all reading and writing program entry requirements prior to entering courses beyond the Certificate. CDEV 1200, 1210, 1220, 1230, and 1240 must be completed before taking second semester courses.

Second Semester

CDEV 1240 Learning Environment and Curriculum4
CDEV 2560 Language & Literature Learning
Experiences (Fall)
ASLS 1412 American Sign Language 23
General Education Requirements
Total Semester Credits

Third Semester

CDEV 2320 Children with Differing Abilities (Fall)3
ASLS 1413 American Sign Language 33
General Education Requirements
Total Semester Credits15

Fourth Semester

NOTE: ASLS 1413 & ASLS 1414 are counted towards fulfilling MnTC Electives

Total Program Credits60

2014 - 2015

Child Development Careers AAS DEGREE

Program Overview

This program is designed to prepare individuals for employment as a teacher in a variety of early childhood settings. Students will learn how to promote and communicate knowledge of child development; create healthy, respectful and challenging learning environments; create and maintain respectful and supportive relationships with children, families, staff, and community members; use observation skills to enhance teaching; and design and implement developmentally and culturally appropriate activities and curriculum. Lab and Practicum opportunities are provided which allow students to apply their skills and knowledge in a practical experience. All students must meet all reading and writing program entry requirements prior to entering courses beyond the Certificate.

Students must have a high school diploma, or GED, and pass a criminal background study. Respect for cultural differences is essential. Good judgment and absolute integrity are also necessary for success in the field of child development.

Career Opportunities

Graduates of the Child Development AAS program will qualify to teach at a child care center, preschool program, before/after-school program, a family child care home or nanny, as well as a Lead Teacher in a Head Start program, a teacher assistant or education assistant (paraprofessional) in the public schools, Early Childhood Family Education, Early Childhood Special Education, or Child Life Assistant (in a hospital setting). The AAS degree meets Minnesota Department of Human Services educational requirements for child care workers. The demand for trained child development professionals continues to increase as more parents seek quality care and educational programs for their children. Our job placement rate is well over 95% and the Bureau of Labor Statistics estimates that the employment outlook will grow faster than average through 2018.

Program Outcomes

- 1. Graduates will demonstrate knowledge of child safety, health, and nutrition.
- 2. Graduates will demonstrate knowledge on the principles of child development and developmentally appropriate practices.
- 3. Graduates will demonstrate knowledge and skills in positive child guidance techniques.
- 4. Graduates will demonstrate the knowledge and skills in positive family, community, and staff relations.
- 5. Graduates will demonstrate the knowledge and skills in developing and implementing early childhood curriculum.
- 6. Graduates will have hands-on training in a variety of Child Development settings.
- Graduates will possess the knowledge and 7. skills for immediate employment in the Child Development field.

Program Requirements

☑ Check off when completed	
Course	Cr
CDEV 1200 Introduction to Early Childhood	
Education	
\Box CDEV 1210 Child Growth and Development	
□ CDEV 1220 Health, Safety and Nutrition	
□ CDEV 1230 Guiding Children's Behavior	3
CDEV 1240 Learning Environment	
and Curriculum	
$\hfill\square$ CDEV 1316 Observation and Assessment $\ldots\ldots$.	
Not offered every semester, see Advi	
CDEV 2640 Curriculum Planning	
Not offered every semester, see Advi	
CDEV 1910 Practicum 1	
$\hfill\square$ CDEV 2320 Children with Differing Abilities (Fall)	3
CDEV 2600 Organizational Leadership and	
Management (Spring)	2
□ CDEV 2560 Language & Literature Learning	
Experiences OR CDEV 2550 Math,	
Science, and Technology for	
Young Children	
CDEV 2620 Practicum 2	
Subtotal	37
Electives: Choose a minimum of 3 credits from	
the following Technical Electives:	. 3
$\hfill\square$ CDEV 2520 The Peaceful Classroom $\ldots \ldots 3$	
CDEV 2530 Children with Challenging	
Behaviors	
\Box CDEV 2550 Math, Science, and Technology for	
Young Children 3	
□ CDEV 2560 Language & Literature	
Learning Experiences 3	
CDEV 2570 Working with Diverse Children	
and Families	
CDEV 2580 Creative Development &	
Learning Experiences	
CDEV 2590 Social-Emotional Development	
and Learning Experiences	
□ CDEV 2597 Special Topics	
General Education/MnTC Requirements	Cr

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

- Goal 1: Communication7 ENGL 1711 Composition 1 (required) - 4 cr SPCH XXXX (required) (Goal 1 only) - 3 cr
- Goal 3: Natural Sciences OR
- Goal 4: Mathematical/Logical Reasoning □ Goal 5: History, Social Science and any may be taken, however SOCI 1720 Social Problems OR SOCI 1730 Sociology of Families &
- Relationships (recommended)
- □ Goals 1-10 of the Minnesota Transfer Curriculum . . 4 Select a minimum of 4 additional credits

Program Faculty

Students should consult with the Program Advisor each semester.

Kelly McKown	kelly.mckown@saintpaul.edu
Janet Massa	janet.massa@saintpaul.e

Part-time/Full-time Options

Part-time and full-time options are available. Evening, Saturday, and online courses are also available. Costs vary depending on part-time or full-time enrollment.

Program Start Dates

Fall, Spring, Summer

Course Sequence

The course sequence on the back of this guide is recommended for a full-time student; however, this sequence is not required. Not all courses are offered each semester; a selection of courses is offered summer term.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Child Development Careers AAS

Human Development & Family Studies BS University of Wisconsin-Stout

See back of guide for Course Sequence

Information is subject to change. This Program Requirements Guide is not a contract.

Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

053A (7009)

Child Development Careers AAS DEGREE (continued)

Course Sequence

The course sequence is recommended for a full-time student; however, this sequence is not required.

Not all courses are offered each semester; a selection of courses is offered summer term.

Students should consult with the Program Advisor each semester.

First Semester

CDEV 1200 Introduction to Early
Childhood Education
CDEV 1210 Child Growth and Development3
CDEV 1220 Health, Safety and Nutrition
CDEV 1230 Guiding Children's Behavior
CDEV 1240 Learning Environment and Curriculum4
Total Semester Credits

All students must meet all reading and writing program entry requirements prior to entering courses beyond the Certificate. CDEV 1200, 1210, 1220, 1230, and 1240 must be completed before taking second semester courses.

Second Semester

Second Semester
CDEV 1316 Observation and Assessment
Not offered every semester, see Advisor CDEV 2640 Curriculum Planning
Not offered every semester, see Advisor
CDEV 25XX Technical Elective
CDEV 2550 offered in Spring semester only CDEV 2560 offered in Fall semester only
General Education Requirements
Total Semester Credits
Third Semester
CDEV 2320 Children with Differing Abilities
Offered in Fall semester only
CDEV 25XX Technical Elective
CDEV 2550 offered in Spring semester only
CDEV 2560 offered in Fall semester only
CDEV 1910 Practicum 1
General Education Requirements
Total Semester Credits
Fourth Semester
CDEV 2600 Organizational Leadership and
Management
Offered in Fall semester only
CDEV 2620 Practicum 2
General Education Requirements
Total Semester Credits

Child Development Careers DIPLOMA

Program Overview

This program is designed to prepare individuals for employment in entry-level early childhood education positions. Students will learn about child development, guidance, health and safety, professional relations, and strategies for promoting learning in young children. Lab and Practicum opportunities are provided which allow students to apply their skills and knowledge in a practical experience. All students must meet all reading and writing program entry requirements prior to entering courses beyond the Certificate.

Students must have a high school diploma or GED and pass a criminal background study. Respect for cultural differences is essential. Good judgment and absolute integrity are also necessary for success in the field of child development.

Career Opportunities

Graduates of the Child Development Diploma program will qualify to work at a child care center, preschool program, before/after-school program, a family child care home or nanny. This diploma meets Minnesota Department of Human Services educational requirements for child care workers. The demand for trained child development professionals continues to increase as more and more parents seek quality care and educational programs for their children. Our job placement rate is well over 95% and the Bureau of Labor Statistics estimates that the employment outlook will grow faster than average through 2018.

Program Outcomes

- 1. Graduates will demonstrate knowledge of child safety, health and nutrition.
- Graduates will demonstrate knowledge in the fundamental principles of child development and developmentally appropriate practices.
- 3. Graduates will demonstrate knowledge and skills in positive child guidance techniques.
- 4. Graduates will demonstrate the knowledge and skills in positive family, community, and staff relations.
- Graduates will demonstrate the knowledge and skills in developing and implementing early childhood curriculum.

Program Faculty

Students should consult with the Program Advisor each semester.

Kelly McKown	kelly.mckown@saintpaul.edu
Janet Massa	janet.massa@saintpaul.edu

Part-time/Full-time Options

Part-time and full-time options are available. Evening, Saturday, and online courses are also available. Costs vary depending on part-time or full-time enrollment.

Program Requirements

 \blacksquare Check off when completed

Course Cr
□ CDEV 1200 Introduction to Early Childhood
Education
□ CDEV 1210 Child Growth and Development3
□ CDEV 1220 Health, Safety and Nutrition
□ CDEV 1230 Guiding Children's Behavior
□ CDEV 1240 Learning Environment and Curriculum .4
□ CDEV 1316 Observation and Assessment 3
□ CDEV 2640 Curriculum Planning
□ CDEV 1910 Practicum 1
Subtotal
General Education Requirements
ENGL 1711 Composition 1 (required) 4
SOCI 17XX Any SOCI may be taken
however, SOCI 1720 Social Problems (3 cr) OR
SOCI 1730 Sociology of Families and
Relationships is recommended (3 cr)

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Not all courses are offered each semester; a selection of courses is offered summer term.

First Semester

CDEV 1200 Introduction to Early
Childhood Education
CDEV 1210 Child Growth and Development3
CDEV 1220 Health, Safety and Nutrition3
CDEV 1230 Guiding Children's Behavior3
CDEV 1240 Learning Environment & Curriculum 4
Total Semester Credits

All students must meet all reading and writing program entry requirements prior to entering courses beyond the Certificate. CDEV 1200, 1210, 1220, 1230, and 1240 must be completed before taking second semester courses.

Second Semester

CDEV 1316 Observation and Assessment3
CDEV 2640 Curriculum Planning
Not offered every semester, see Advisor
CDEV 1910 Practicum 13
ENGL 1711 Composition (Goal 1)
SOCI 1720 Social Problems OR
SOCI 1730 Sociology of Families and
Relationships is recommended (Goal 5)3
Total Semester Credits
Total Program Credits32

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Any

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

052D (7007)

Child Development Careers CERTIFICATE

Program Overview

This program is designed to give students an introduction to the field of Early Childhood Education and the variety of career opportunities. Each of our other programs begin with the Certificate-level courses. Students will learn about child development, guidance, health and safety, professional relations, and strategies for promoting learning in young children.

Students must have a high school diploma, or GED, and pass a criminal background study. Respect for cultural differences is essential. Good judgment and absolute integrity are also necessary for success in the field of child development.

Career Opportunities

Graduates of the Child Development Certificate program will qualify to work at a child care center, preschool program, before/after-school program, a family child care home or nanny. This certificate meets Minnesota Department of Human Services educational requirements for child care provider. The demand for trained child development professionals continues to increase as more and more parents seek quality care and educational programs for their children. Our job placement rate is well over 95% and the Bureau of Labor Statistics estimates that the employment outlook will grow faster than average through 2018.

Program Outcomes

- 1. Graduates will demonstrate knowledge of child safety, health and nutrition.
- Graduates will demonstrate knowledge in the fundamental principles of child development and developmentally appropriate practices.
- 3. Graduates will demonstrate knowledge and skills in positive child guidance techniques.
- Graduates will demonstrate the knowledge and skills in positive family, community, and staff relations.

Program Faculty

Students should consult with the Program Advisor each semester.

Kelly McKown	kelly.mckown@saintpaul.edu
Janet Massa	janet.massa@saintpaul.edu

Part-time/Full-time Options

Part-time and full-time options are available. Evening, Saturday, and online courses are also available. Costs vary depending on part-time or full-time enrollment.

Program Requirements

☑ Check off when completed

Course Cr
□ CDEV 1200 Introduction to Early Childhood
Education
□ CDEV 1210 Child Growth and Development3
□ CDEV 1220 Health, Safety and Nutrition
□ CDEV 1230 Guiding Children's Behavior
CDEV 1240 Learning Environment and
Curriculum

Total Program Credits16

Program Start Dates

Fall, Spring, Summer

Course Sequence

This certificate can be completed in one semester as shown in the following sequence; however, this sequence is not required. Not all courses are offered each semester; a selection of courses is offered summer term.

First Semester

CDEV 1200 Introduction to Early
Childhood Education
CDEV 1210 Child Growth and Development 3
CDEV 1220 Health, Safety and Nutrition3
CDEV 1230 Guiding Children's Behavior3
CDEV 1240 Learning Environment and Curriculum 4
Total Semester Credits
Total Program Credits16

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 60+ on Reading Comprehension or grade of "C" or better in READ 0721

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Any

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

051C (7006)

Information is subject to change. This Program Requirements Guide is not a contract.

2014 - 2015

Program Requirements Guide

Cosmetology AAS DEGREE

Program Overview

The Cosmetology AAS degree meets the requirements for licensure by the Minnesota Board of Cosmetologist Examiners and provides transferrable credits towards a two- or four-year degree in liberal arts and sciences.

Cosmetology services include the cleaning, conditioning, shaping, reinforcing, coloring and enhancing of the body surface in the areas of head, scalp, face, arms, hands, legs and feet.

Science courses provide a good background for the skills taught in hair analysis and treatment. Physical requirements include finger dexterity, negative allergic reaction to cosmetic preparations and artistic flair for creative design. The professional cosmetologist should enjoy working with the public and in a team atmosphere. People skills and time management skills are essential.

Licensing or certification exams are independent of graduation requirements.

Career Opportunities

The job outlook is good for cosmetologists, estheticians and nail technicians. Increasing population, incomes, and demand for cosmetology services will stimulate job growth. In addition, numerous job openings will stem from rapid turnover in salons and the large size of the occupation. The rapid growth of nail salons and full-service spas will generate numerous job openings for cosmetologists skilled in hair, skin, and nails.

After cosmetology students complete 1550 hours of skills and theory training and pass the written exam given through the State designated testing service and skills certification, they are eligible for licensure through the Minnesota Board of Cosmetologist Examiners. Cosmetologists work in a variety of settings including beauty salons and full service spas.

Program Outcomes

- 1. Graduates will be prepared to take the skillscertification.
- 2. Graduates will be prepared to take the Minnesota State Cosmetology written exam and state law test administered through the State designated testing service (access through www.bceboard.state.mn.us).
- 3. Graduates will have knowledge and skills in cosmetology services (hair, nails and skin).
- 4. Graduates will have knowledge and skills in salon operations.
- 5. Graduates will be prepared for employment as Cosmetologists.
- 6. Graduates will have successfully mastered the general education program requirements for work and life roles.

Program Faculty

Ann Rosenthal ann.rosenthal@saintpaul.edu

Full-time

Students attend full-time and can complete the program in three semesters.

Licensure

This program meets Minnesota Board of Cosmetologist Examiners requirements.

Textbook and Supply Costs

Students should expect to spend approximately \$3,700.00 for cosmetology kits, supplies, and books. This cost is in addition to tuition and fees.



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Saint Paul College's Cosmetology Program is a Pivot Point Member School

Pivot Point International Inc. 1560 Sherman Avenue Suite 700 Evanston, IL 60201 1.800.886.4247 www.pivot-point.com

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Cosmetology AAS

BA Individualized Studies Metropolitan State University

Information is subject to change. This Program Requirements Guide is not a contract.

Additional Requirements

Be prepared to purchase student cosmetology kits the first day of class from the book store. Financial aid must have been completed.

All books MUST be purchased before classes begin.

Cosmetology Student Handbook/Agreement Form All new and returning students will need to access Desire2Learn (D2L) prior to the first day of classes to read the Cosmetology student handbook. After you have read the handbook, you must print and sign Student Agreement Form, Hepatitis B Vaccination/Declination Form and Rollabout Form and return them to your instructor on the first day of class before you will be admitted to class. You will need to perform this task prior to the first day of each semester. Please direct questions to the assigned instructor of your first class.

Program Start Dates

Fall, Spring

Course Sequence

See back of guide for Program Requirements and Course Sequence. Required course sequence is dependent upon which Semester/Term the student starts the Cosmetology AAS Degree Program. The General Education Courses (16 credits) may be taken during the Semester/ Term of student's choice or after completion of Technical Requirement courses.

See back of guide for Program Requirements and Course Sequence

Minimum Program Entry Requirements Students entering this program must meet the

following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

135A (7123)

Cosmetology AAS DEGREE (continued)

Program Requirements

☑ Check off when completed

□ Required Program Seminar

All Cosmetology, Esthetics and Nail Technician applicants must attend a program seminar prior to enrollment as a full-time student. Please call the Clinic receptionist at 651.846.1329 to reserve your space at a seminar. Seminar dates and times are posted online at www.saintpaul.edu/CosEsthSeminar.

Courses Cr
CHSN 1410 Preclinic Introduction
CHSN 1420 Body Systems & Diseases
CHSN 1405 Preclinic Hair Care 1
CHSN 1406 Preclinic Hair Care 2
CHSN 1407 Preclinic Nail Care
CHSN 1409 Preclinic Chemical Control
CHSN 1413 Preclinic Hair Color
CHSN 1418 Advanced Hair Care 4
CHSN 1445 Cosmetic Chemistry & Makeup Applications 4
CHSN 1450 Skin Analysis & Massage
CHSN 1431 Clinic 1 for Cosmetology Majors 3
CHSN 1432 Clinic 2 for Cosmetology Majors 3
CHSN 1433 Clinic 3 for Cosmetology Majors 3
CHSN 1434 Clinic 4 for Cosmetology Majors 3
CHSN 1435 Clinic 5 for Cosmetology Majors 3
CHSN 1436 Clinic 6 for Cosmetology Majors 3
Subtotal
□ Required Technical Electives
Select 3 credits from the following Technical Electives to
complete the required 1550 hours needed for licensure:
CHSN 1451 Salon Operations 1 for Cosmetology/Nail Technician Majors 1
CHSN 1452 Salon Operations 2 for Cosmetology/Nail Technician Majors 2
CHSN 1453 Salon Operations 3 for Cosmetology/Nail Technician Majors 3
CHSN 1454 Salon Operations 4 for Cosmetology/Nail Technician Majors 4
CHSN 1455 Salon Operations 5 for Cosmetology/Nail Technician Majors 5
CHSN 1456 Salon Operations 6 for Cosmetology/Nail Technician Majors 6

General Education/MnTC Requirements C	Cr
Refer to the Minnesota Transfer Curriculum Course List for each Goal Area	
□ Goal 1: Communication	7
Goal 3 or Goal 4 Goal 3: Natural Sciences OR Goal 4: Mathematical/Logical Reasoning	3
Goal 5: History, Social Science and Behavioral Sciences	3
Total Program Credits	2

Course Sequence

Required course sequence is dependent upon which Semester/Term the student starts the Cosmetology AAS Degree Program. The General Education courses (16 credits) may be taken during the Semester/Term of student's choice or after completion of Technical Requirement courses.

If you start the program Fall or Spring Semester:

Course	Cr	Hrs
First Semester CHSN 1410 Preclinic Introduction on-line	4	80
CHSN 1420 Body Systems & Diseases on-line		
CHSN 1445 Cosmetic Chemistry & Makeup Applications		
CHSN 1450 Skin Analysis & Massage		
CHSN 1405 Preclinic Hair Care 1	3	96
CHSN 1406 Preclinic Hair Care 2	3	80
CHSN 1407 Preclinic Nail Care	3	80
CHSN 1431 Clinic 1 for Cosmetology Majors	3	96
CHSN 1451 Salon Operations 1 for Cosmetology/		
Nail Technician Majors		
Total Semester Credits/Hours	29	736
Second Semester		
CHSN 1413 Preclinic Hair Color	3	80
CHSN 1409 Preclinic Chemical Control	3	80
CHSN 1418 Advanced Hair Care		
CHSN 1432 Clinic 2 for Cosmetology Majors		
CHSN 1433 Clinic 3 for Cosmetology Majors		
CHSN 1434 Clinic 4 for Cosmetology Majors.	3	96
CHSN 1452 Salon Operations 2 for Cosmetology/		
Nail Tech Majors		
Total Semester Credits/Hours		624
Third Semester		
CHSN 1435 Clinic 5 for Cosmetology Majors		
CHSN 1436 Clinic 6 for Cosmetology Majors		
Total Semester Credits/Hours	6	192
Subtotal Program Credits Hours	56	1552
Any Semester		
General Education Requirements (Semester of Choice)		
ENGL 1711 Composition 1 (Goal 1)	4	

Total Program Credits:
General Education Requirements
Humanities and Fine Arts (Goal 6)
History, Social Science and Behavioral Sciences (Goal 5) 3
Mathematical/Logical Reasoning (Goal 4)
Natural Sciences (Goal 3) OR
SPCH 1782 Organizational Communication (recommended) 3
SPCH 1720 Interpersonal Communications OR
ENGL 1711 Composition 1 (Goal 1)
,

Program Requirements Guide

2014 - 2015

Cosmetology DIPLOMA

Program Overview

The Cosmetology Diploma program meets the requirements for licensure by the Minnesota Board of Cosmetologist Examiners.

Cosmetology services include the cleaning, conditioning, shaping, reinforcing, coloring and enhancing of the body surface in the areas of head, scalp, face, arms, hands, legs and feet.

Science courses provide a good background for the skills taught in hair analysis and treatment. Physical requirements include finger dexterity, negative allergic reaction to cosmetic preparations and artistic flair for creative design. The professional cosmetologist should enjoy working with the public and in a team atmosphere. People skills and time management skills are essential.

Licensing or certification exams are independent of graduation requirements.

Career Opportunities

The job outlook is good for cosmetologists. Increasing population, incomes, and demand for cosmetology services will stimulate job growth. In addition, numerous job openings will stem from rapid turnover in salons and the large size of the occupation. The rapid growth of nail salons and full-service spas will generate numerous job openings for cosmetologists skilled in hair, skin, and nails.

After cosmetology students complete 1550 hours of skills and theory training and pass the written exam given through the State designated testing service and skills certification, they are eligible for licensure through the Minnesota Board of Cosmetologist Examiners. Cosmetologists work in a variety of settings including beauty salons and full service spas.

Program Outcomes

- 1. Graduates will be prepared to take the skills certification.
- 2. Graduates will be prepared to take the Minnesota State Cosmetology written exam and state law test administered through the State designated testing service (access through www.bceboard.state.mn.us).
- 3. Graduates will have knowledge and skills in cosmetology services (hair, nails and skin).
- 4. Graduates will have knowledge and skills in salon operations.
- 5. Graduates will be prepared for employment as Cosmetologists.
- 6. Graduates will have successfully mastered the general education program requirements for work and life roles.

Program Faculty

Ann Rosenthal ann.rosenthal@saintpaul.edu

Full-time

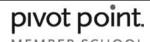
Students attend full-time and can complete the program in three semesters.

Licensure

This program meets Minnesota Board of Cosmetologist Examiners requirements.

Textbook and Supply Costs

Students should expect to spend approximately \$3,700.00 for cosmetology kits, supplies, and books. This cost is in addition to tuition and fees.



MEMBER SCHOOL

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Additional Requirements

Purchase Kits

Be prepared to purchase student cosmetology kits the first day of class from the book store. Financial aid must have been completed.

All books MUST be purchased before classes begin.

Cosmetology Student Handbook/ Agreement Form

All new and returning students will need to access Desire2Learn (D2L) prior to the first day of classes to read the Cosmetology student handbook. After you have read the handbook, you must print and sign Student Agreement Form, Hepatitis B Vaccination/Declination Form and Rollabout Form and return them to your instructor on the first day of class before you will be admitted to class. You will need to perform this task prior to the first day of each semester. Please direct questions to the assigned instructor of your first class.

Program Start Dates

Fall, Spring

Course Sequence

See back of guide for Program Requirements and Course Sequence. Required course sequence is dependent upon which Semester/Term the student starts the Cosmetology Diploma program. The General Education Requirement (3 credits) may be taken during the Semester/Term of student's choice.

> See back of guide for Program Requirements and Course Sequence



Reading: Score of 78+ on Reading Comprehension or grade of "C" or better in READ 0722

Writing: Any

Arithmetic: Any

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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Cosmetology DIPLOMA (continued)

Program Requirements

\blacksquare Check off when completed

□ Required Program Seminar

All Cosmetology, Esthetics and Nail Technician applicants must attend a program seminar prior to enrollment as a full-time student. Please call the Clinic receptionist at 651.846.1329 to reserve your space at a seminar. Seminar dates and times are posted online at www.saintpaul.edu/CosEsthSeminar.

Courses Cr
CHSN 1410 Preclinic Introduction4CHSN 1420 Body Systems and Disease4CHSN 1405 Preclinic Hair Care 13CHSN 1406 Preclinic Hair Care 23CHSN 1407 Preclinic Nail Care3CHSN 1409 Preclinic Chemical Control3CHSN 1413 Preclinic Hair Color3CHSN 1413 Preclinic Hair Color4CHSN 1445 Cosmetic Chemistry & Makeup Application4CHSN 1450 Skin Analysis & Massage4CHSN 1431 Clinic 1 for Cosmetology Majors3CHSN 1433 Clinic 3 for Cosmetology Majors3CHSN 1434 Clinic 4 for Cosmetology Majors3CHSN 1435 Clinic 5 for Cosmetology Majors3CHSN 1436 Clinic 5 for Cosmetology Majors3CHSN 1436 Clinic 5 for Cosmetology Majors3CHSN 1436 Clinic 6 for Cosmetology Majors3CHSN 1436 Clinic 5 for Cosmetology Majors3CHSN 1436 Clinic 6 for Cosmetology Majors3Subtotal53
 □ Required Technical Electives
□ General Education Requirement
Total Program Credits 59

2014 - 2015

Course Sequence

Required course sequence is dependent upon which Semester/Term the student starts the Cosmetology Diploma Program. The General Education Requirement (3 credits) may be taken during the Semester/Term of student's choice.

If you start the program Fall or Spring Semester:

Course	Cr	Hrs
First Semester		
CHSN 1410 Preclinic Introduction on-line		
CHSN 1420 Body Systems & Diseases on-line		
CHSN 1445 Cosmetic Chemistry & Makeup Applications .		
CHSN 1450 Skin Analysis & Massage		
CHSN 1405 Preclinic Hair Care 1	3	96
CHSN 1406 Preclinic Hair Care 2	3	80
CHSN 1407 Preclinic Nail Care	3	80
CHSN 1431 Clinic 1 for Cosmetology Majors	3	96
CHSN 1451 Salon Operations 1 for Cosmetology/		
Nail Technician Majors	1	32
Total Semester Credits/Hours		
Second Semester		
CHSN 1413 Preclinic Hair Color	2	00
CHSN 1413 Preclinic Hair Color CHSN 1409 Preclinic Chemical Control		
CHSN 1418 Advanced Hair Care		
CHSN 1432 Clinic 2 for Cosmetology Majors.		
CHSN 1433 Clinic 3 for Cosmetology Majors.		
CHSN 1434 Clinic 4 for Cosmetology Majors.	3	96
CHSN 1452 Salon Operations 2 for Cosmetology/		
Nail Tech Majors		
Total Semester Credits/Hours	21	624
Third Semester		
CHSN 1435 Clinic 5 for Cosmetology Majors	3	96
CHSN 1436 Clinic 6 for Cosmetology Majors.		
Total Semester Credits/Hours		
Subtotal Program Credits/Hours	56	1552
Any Semester		
General Education Requirements (Semester of Choice)		
SPCH 1720 Interpersonal Communications OR		
	N 2	
SPCH 1782 Organizational Communication (recommended		
General Education Requirement	3	
Total Program Credits:		1552
J		

Nail Care Technician CERTIFICATE

Program Overview

Nail Technician services include the cleaning, shaping, conditioning and care for the fingers, hands, toes and feet as well as the preparation and application of artificial nails.

Physical requirements include finger dexterity, negative allergic reaction to cosmetic preparations, and artistic flair for creative design. The nail technician should enjoy working with the public and in a team atmosphere. People skills and time management skills are essential.

Licensing or certification exams are independent of graduation requirements.

Career Opportunities

The job outlook is very good for nail technicians. Increasing population, incomes, and demand for cosmetology services will stimulate job growth. In addition, numerous job openings will stem from rapid turnover in salons and the large size of the occupation. The rapid growth of nail salons and full service spas will generate numerous job openings for nail technicians.

After Nail Care Technician students complete 350 hours of skills and theory training and pass the written exam given through the State designated testing service, and skills certification they are eligible for licensure from the Minnesota Board of Cosmetologist Examiners. Nail technicians work in beauty salons, nail salons and spas.

Program Outcomes

- 1. Graduates will be prepared to take the skills certification.
- 2. Graduates will be prepared to take the Minnesota State written exam and state law test administered through the State designated testing service (access through www.bceboard.state.mn.us).
- 3. Graduates will possess knowledge and skills for manicures, pedicures and application of artificial nails.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

Ann Rosenthal ann.rosenthal@saintpaul.edu

Full-time

Students may complete the program in one semester. Consult with Cosmetology Instructor to develop a plan.

Additional Costs

Students should expect to spend approximately \$700.00 for nail care kits, supplies and books. This cost is in addition to tuition and fees. There is an additional fee to take the licensure exam.

Program Requirements

☑ Check off when completed

Required Program Seminar

All Cosmetology, Esthetics and Nail Technician applicants must attend a program seminar prior to enrollment. Please call the Clinic receptionist at 651.846.1329 to reserve your space at a seminar. Seminar dates and times are posted online at www. saintpaul.edu/CosEsthSeminar.

Course Cr □ CHSN 1410 Preclinic Introduction on-line 4 □ CHSN 1420 Body Systems & Diseases on-line 4 □ CHSN 1420 Preclinic Nail Care 4 □ CHSN 1407 Preclinic Nail Care 4 □ CHSN 1452 Salon Operations 2 for Cosmetology/ 6 Nail Technician Majors 2 □ CHSN 1461 Clinic 1 for Nail Technicians 3 Total Program Credits 16

□ Select from the following electives as needed: CHSN 1451 Salon Operations 1 for Cosmetology/ Nail Technician Majors1 CHSN 1453 Salon Operations 3 for Cosmetology/ Nail Technician Majors3

Additional Requirements

Be prepared to purchase kits the first day of class from the book store with the instructor. Financial aid must have been completed.

All books **MUST** be purchased before classes begin.

Cosmetology Student Handbook/ Agreement Form

All new and returning students will need to access Desire2Learn (D2L) prior to the first day of classes to read the Cosmetology student handbook. After you have read the handbook, you must print and sign Student Agreement Form, Hepatitis B Vaccination/Declination Form and Rollabout Form and return them to your instructor on the first day of class before you will be admitted to class. You will need to perform this task prior to the first day of each semester. Please direct questions to the assigned instructor of your first class.

Program Start Dates

Fall, Spring

Course Sequence

This certificate can be completed in one semester as shown in the following sequence.

First Semester

CHSN 1410 Preclinic Introduction on-line4	
CHSN 1420 Body Systems & Diseases on-line4	
CHSN 1407 Preclinic Nail Care	
CHSN 1452 Salon Operations 2 for Cosmetology/	
Nail Technician Majors	
CHSN 1461 Clinic 1 for Nail Technicians	
Total Semester Credits16	

Total Program Credits16

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 60+ on Reading Comprehension or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Any

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

057C (7078)

Culinary Arts AAS DEGREE

Program Overview

Chefs and cooks prepare a variety of foods in many different environments, from preparation of a la carte (prepared to order) to banquets for hundreds of people. Responsibilities include sanitation, maintaining an accounting and inventory control system, estimating the amount of food needed, purchasing food supplies, and planning menus. Nutritional aspects of healthy cooking are increasingly incorporated into the chef's menu.

A good general education, good reading ability, and a working knowledge of mathematics is important so that students can interpret weights and measures, calculate recipes, and understand cost control, inventory control and forecasting.

Career Opportunities

According to the U.S. Bureau of Labor Statistics and the National Restaurant Association, meal preparation continues to shift out of the home, providing plentiful opportunities for chefs, cooks, and other food service workers. Americans spend more than \$300 billion each year on meals eaten outside the home. The service industry currently employs 9,631,900 individuals and is projected to swell by 7.7% by 2018.

Opportunities are available in hotels, restaurants, resorts, clubs, catering and corporate dining, government and school kitchens. Institutional opportunities include health care, schools, corporations, and government facilities. Culinary Arts careers can lead in many different directions such as hospitality management, sales, product development, or owning your own business.

Articulation agreements exist with four-year degree granting institutions to pursue advanced degrees in the culinary arts field.

Program Outcomes

- 1. Graduates will have knowledge and skills in culinary arts.
- 2. Graduates will demonstrate knowledge and skills in restaurant operations.
- 3. Graduates will be experienced in food preparation and presentation for business and industry.
- 4. Graduates will be prepared for immediate employment in the food service industry.
- 5. Graduates will have mastered the general education program requirements for work and life roles.
- 6. Graduates will be eligible for Minnesota Food Manager Certification.
- 7. Graduates will be eligible for certification by ACF as a "Certified Culinarian."

Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

5	5
Marcy Alfonsi	marcy.alfonsi@saintpaul.edu
Larry Fischer	larry.fischer@saintpaul.edu
Sean Jones	sean.jones@saintpaul.edu
Manfred Krug	manfred.krug@saintpaul.edu
Nathan Sartain	nathan.sartain@saintpaul.edu
Dan Vasterling	daniel.vasterling@saintpaul.edu

Textbook and Supply Costs

Students should expect to spend approximately \$1,300.00 for books, uniform and culinary supplies. This cost is in addition to the cost of tuition and fees.

Program Requirements

☑ Check off when completed

Course Cr
 CULA 1400 Culinary Basics 1
CULA 2460 Classical Buffet

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area Goal 1: Communication7 ENGL 1711 Composition 1 (required) – 4 cr

*Course has a differential tuition rate. Check the Course Schedule at www.saintpaul.edu/CourseSchedule for current course costs.

Program Start Dates

Fall, Spring

Course Sequence

The course sequence listed on the back is required for a full-time student.

Accreditation

This program is accredited by the American Culinary Federation Education Foundation's Accrediting Commission. (ACFEF)



American Cuunary Federauon Education Foundation

Programmatic Accreditation by ACFEF Accrediting Commission

Exemplary Status



Saint Paul College's Culinary Arts AAS degree program is the only exemplary culinary program in public education in Minnesota.

Exemplary Programs symbolize the highest educational standards

recognized by the American Culinary Federation Education Foundation Accrediting Commission (ACFEFAC). The award is presented to programs that have proven full compliance with all ACFEFAC accreditation requirements in the last visiting team report along with excellent management of the program.

Continued on back

Minimum Program Entry Requirements Students entering this program must meet the

following minimum program entry requirements: **Reading:** Score of 78+ or grade of "C" or

better in READ 0722 Writing: Score of 60+ on Reading

Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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Culinary Arts AAS DEGREE (continued)

Course Sequence

The following sequence is required for a full-time student.

First Semester

Thist Semester
CULA 1400 Culinary Basics 1
CULA 1420 Culinary Basics 24
CULA 1440 Breakfast1
CULA 1450 Meat Fabrication2
CULA 1460 Basic Menu Production2
CULA 1470 Food Service Sanitation2
CULA 1480 Nutrition
CULA 1490 Food Service Math2
SPCH 1720 or SPCH 1782 recommended -
must be completed prior to starting
Third Semester Coursework
Total Semester Credits

Second Semester

CULA 1510 Commercial Bakery Production 2
CULA 1520 Commercial Pantry Production2
CULA 1530 Commercial Range Production2
CULA 1535 Catering1
CULA 1540 Food Service Supervisory Management 2
CULA 1550 Grill/Short Order Cooking
CULA 1560 Food/Beverage/Labor Cost Control3
CULA 1570 Basic Cake Decorating2
Total Semester Credits

Third Semester

CULA 2410 Restaurant Operations Theory	2
CULA 2411 Restaurant Operations Lab 1	3
CULA 2412 Restaurant Operations Lab 2	3
CULA 2420 Service	2
CULA 2430 Advanced Foods and Wine Appreciation .2	2
CULA 2440 Ice Carving	1
CULA 2450 Advanced Cake & Pastry	2
CULA 2460 Classical Buffet	3
Total Semester Credits18	3

Fourth Semester

ENGL 1711 Composition 1 (Goal 1)
Natural Sciences OR Mathematical/Logical
Reasoning (Goal 3 or 4)
History, Social Science, Behavioral Sciences (Goal 5)3
Humanities and Fine Arts (Goal 6)
Total Semester Credits
Total Program Credits

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Culinary Arts AAS

BA Individualized Studies Metropolitan State University

Program Requirements Guide

2014 - 2015

Culinary Arts DIPLOMA

Program Overview

Chefs and cooks prepare a variety of foods in many different environments, from preparation of a la carte (prepared to order) to banquets for hundreds of people. Responsibilities include sanitation, maintaining an accounting and inventory control system, estimating the amount of food needed, purchasing food supplies, and planning menus. Nutritional aspects of healthy cooking are increasingly incorporated into the chef's menu.

A good general education, good reading ability, and a working knowledge of mathematics is important so that students can interpret weights and measures, calculate recipes, and understand cost control, inventory control and forecasting.

Career Opportunities

According to the U.S. Bureau of Labor Statistics and the National Restaurant Association, meal preparation continues to shift out of the home, providing plentiful opportunities for chefs, cooks, and other food service workers. Americans spend more than \$300 billion each year on meals eaten outside the home. The service industry currently employs 9,631,900 individuals and is projected to swell by 7.7% by 2018.

Opportunities are available in hotels, restaurants, resorts, clubs, catering and corporate dining, government and school kitchens. Institutional opportunities include health care, schools, corporations, and government facilities. Culinary Arts careers can lead in many different directions such as hospitality management, sales, product development, or owning your own business.

Program Outcomes

- 1. Graduates will have knowledge and skills in culinary arts.
- 2. Graduates will demonstrate knowledge and skills in restaurant operations.
- 3. Graduates will be experienced in food preparation and presentation for business and industry.
- 4. Graduates will be prepared for immediate employment in the food service industry.
- 5. Graduates may be eligible for Minnesota Food Manager Certification.
- 6. Graduates will be eligible for certification by ACF as a "Certified Culinarian."

Program Faculty

Marcy Alfonsi	m
Larry Fischer	la
Sean Jones	S
Manfred Krug	m
Nathan Sartain	n
Dan Vasterling	d

marcy.alfonsi@saintpaul.edu larry.fischer@saintpaul.edu sean.jones@saintpaul.edu manfred.krug@saintpaul.edu nathan.sartain@saintpaul.edu daniel.vasterling@saintpaul.edu

Accreditation



Textbook and Supply Costs

\$1,300.00 for books, uniform, and culinary supplies. This cost is in addition to the cost of tuition and fees.

Program Requirements

☑ Check off when completed

Course Cr
CULA 1400 Culinary Basics 1 3* CULA 1420 Culinary Basics 2 4* CULA 1440 Breakfast 1 CULA 1450 Meat Fabrication 2* CULA 1470 Food Service Sanitation 2 CULA 1480 Nutrition 2 CULA 1490 Food Service Math 2 CULA 1510 Commercial Bakery Production 2* CULA 1520 Commercial Pantry Production 2* CULA 1535 Catering 1 CULA 1540 Food Service Supervisory Management Management 2
 CULA 1560 Food/Beverage/Labor Cost Control3 CULA 1570 Basic Cake Decorating2 CULA 2410 Restaurant Operations Theory2 CULA 2411 Restaurant Operations Lab 13* CULA 2412 Restaurant Operations Lab 23* CULA 2420 Service
 CULA 2440 Ice Carving
Total Program Credits 55
*Course has a differential tuition rate. For current course costs go to www.saintpaul.edu/CourseSchedule

**Refer to the Minnesota Transfer Curriculum (MnTC) course list for specific course options.

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is required for a full-time student.

First Semester

3 4 1 2 2 2 2 2 3
1
2 2 2 2 1 2 2 3 2 6
2 3 3 2 2 1 2 3 8

Minimum Program Entry Requirements Students entering this program must meet the

following minimum program entry requirements:

Reading: Score of 60+ on Reading Comprehension or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites. 058D_58PD (7013)

2014 - 2015

Baking and Decorating CERTIFICATE

Program Overview

Chefs and cooks prepare a variety of foods in many different environments, from preparation of a la carte (prepared to order) to banquets for hundreds of people. Responsibilities include sanitation, maintaining an accounting and inventory control system, estimating the amount of food needed, purchasing food supplies, and planning menus. Nutritional aspects of healthy cooking are increasingly incorporated into the chef's menu.

This certificate will allow the student to gain sufficient knowledge and skill to become employable in a commercial baking and cake decorating environment. Bakeries, pastry shops and candy shops are potential employers. Many large department stores, grocery stores, hotels and private clubs also hire our graduates. Entrepreneurs that are interested in having these skills to support their own plan are also welcome.

A good general education, good reading ability, and a working knowledge of mathematics is important so that students can interpret weights and measures, calculate recipes, and understand cost control, inventory control and forecasting.

Career Opportunities

According to the U.S. Bureau of Labor Statistics and the National Restaurant Association, meal preparation continues to shift out of the home, providing plentiful opportunities for chefs, cooks, and other food service workers. Americans spend more than \$300 billion each year on meals eaten outside the home. The service industry currently employs 9,631,900 individuals and is projected to swell by 7.7% by 2018.

Opportunities are available in hotels, restaurants, resorts, clubs, catering and corporate dining, government and school kitchens. Institutional opportunities include health care, schools, corporations, and government facilities. Culinary Arts careers can lead in many different directions such as hospitality management, sales, product development, or owning your own business.

Program Outcomes

- 1. Graduates will be proficient in the preparation of various cakes, pastries and icings.
- 2. Graduates will demonstrate skilled use of piping bag and decorating technique.
- 3. Graduates will be eligible for Minnesota Food Manager Certification.
- 4. Graduates will be prepared for immediate employment in bakery.

Program Faculty

Marcy Alfonsi	marcy.alfonsi@saintpaul.edu
Larry Fischer	larry.fischer@saintpaul.edu
Sean Jones	sean.jones@saintpaul.edu
Manfred Krug	manfred.krug@saintpaul.edu
Nathan Sartain	nathan.sartain@saintpaul.edu
Dan Vasterling	daniel.vasterling@saintpaul.edu

Professional Focus

This program offers a focused, hands-on, professional approach to baking breads, cakes and pastries, including development of marketable cake decorating skills.

Transferable Credits

Credits completed in the Baking and Decorating Certificate program apply to the Culinary Arts Diploma and AAS Degree programs.

Textbook and Supply Costs

Students should expect to spend approximately \$400.00 for books, uniform, and culinary supplies. This cost is in addition to the cost of tuition and fees.

Program Requirements

 \blacksquare Check off when completed

Course Cr
CULA 1400 Culinary Basics 1
□ CULA 1470 Food Service Sanitation2
□ CULA 1490 Food Service Math2
□ CULA 1570 Basic Cake Decorating2

* Course has a differential tuition rate. Check the Course Schedule at www.saintpaul.edu/ CourseSchedule for current course costs.

Program Start Dates

Fall, Spring

Course Sequence

This certificate can be completed in a variety of ways. Courses may be offered in the day or evening.

First Semester

CULA 1400 Culinary Basics 1
CULA 1470 Food Service Sanitation2
CULA 1490 Food Service Math2
CULA 1570 Basic Cake Decorating
Total Semester Credits9

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 60+ on Reading Comprehension or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

196C 19PC (7111)

Short Order Cooking CERTIFICATE

Program Overview

Chefs and cooks prepare a variety of foods in many different environments, from preparation of a la carte (prepared to order) to banquets for hundreds of people. Responsibilities include sanitation, maintaining an accounting and inventory control system, estimating the amount of food needed, purchasing food supplies, and planning menus. Nutritional aspects of healthy cooking are increasingly incorporated into the chef's menu.

A good general education, good reading ability, and a working knowledge of mathematics is important so that students can interpret weights and measures, calculate recipes, and understand cost control, inventory control and forecasting. Credits in this certificate apply toward the Culinary Arts Diploma or AAS degree.

Career Opportunities

According to the U.S. Bureau of Labor Statistics and the National Restaurant Association, meal preparation continues to shift out of the home, providing plentiful opportunities for chefs, cooks, and other food service workers. Americans spend more than \$300 billion each year on meals eaten outside the home. The service industry currently employs 9,631,900 individuals and is projected to swell by 7.7% by 2018.

Opportunities are available in hotels, restaurants, resorts, clubs, catering and corporate dining, government and school kitchens. Institutional opportunities include health care, schools, corporations, and government facilities. Culinary Arts careers can lead in many different directions such as hospitality management, sales, product development, or owning your own business.

Program Outcomes

- 1. Graduates will have knowledge and skills in restaurant production line service.
- 2. Graduates will be prepared for immediate employment in the food service industry.
- 3. Graduates will be eligible for Minnesota Food Manager Certification.
- Graduates will demonstrate knowledge in the 4. preparation of grilled, griddled and fried fare.

Program Faculty

Marcy Alfonsi	marcy.alfonsi@saintpaul.edu
Larry Fischer	larry.fischer@saintpaul.edu
Sean Jones	sean.jones@saintpaul.edu
Manfred Krug	manfred.krug@saintpaul.edu
Nathan Sartain	nathan.sartain@saintpaul.edu
Dan Vasterling	daniel.vasterling@saintpaul.edu

Textbook and Supply Costs

Students should expect to spend approximately \$1,000.00 for books, uniform, and culinary supplies. This cost is in addition to the cost of tuition and fees.

Program Requirements

☑ Check off when completed

Course

CULA 1400 Culinary Basics 1
CULA 1420 Culinary Basics 2
□ CULA 1440 Breakfast1
CULA 1450 Meat Fabrication
□ CULA 1460 Basic Menu Production
□ CULA 1470 Food Service Sanitation2
CULA 1480 Nutrition
□ CULA 1490 Food Service Math
□ CULA 1520 Commercial Pantry Production 2*
CULA 1550 Grill/Short Order Cooking 2*
□ General Education Requirement**
SPCH 1720 Interpersonal Communication

Total Program Credits25

*Course has a differential tuition rate. Check the Course Schedule at www.saintpaul.edu/CourseSchedule for current course costs.

**Refer to the Minnesota Transfer Curriculum (MnTC) course list for specific course options.

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is recommended; however, this sequence is not required.

First Semester

CULA 1400 Culinary Basics 1
CULA 1420 Culinary Basics 24
CULA 1440 Breakfast1
CULA 1450 Meat Fabrication2
CULA 1460 Basic Menu Production2
CULA 1470 Food Service Sanitation2
CULA 1480 Nutrition
CULA 1490 Food Service Math2
Total Semester Credits
Second Semester
CULA 1520 Commercial Pantry Production 2
CULA 1550 Grill/Short Order Cooking 2

Cr

CULA 1520 Commercial Pantry Production 2
CULA 1550 Grill/Short Order Cooking 2
General Education Requirement**
SPCH 1720 Interpersonal Communication
Total Semester Credits7
Total Program Credits

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 60+ on Reading Comprehension or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

154C 54PC (7075)

Wine Professional CERTIFICATE

Program Overview

The Wine Professional Certificate provides the graduate with a strong knowledge of wine, wine service skills, and wine marketing strategies.

Career Opportunities

The wine industry is rapidly expanding within the United States, where wine sales represent the largest wine consumer market in the world. Global wine consumption is predicted to grow another 6.2 percent through 2015, an increase of two billion bottles. Wine sales have now surpassed beer sales, with millenials rapidly adapting to wine over beer. Wine sales are an important profit center for the restaurant/ hospitality industry, and thus a comprehensive knowledge of wine is critical for maximizing outcomes.

Opportunities are available in hotels, restaurants, resorts, clubs, catering and corporate dining.

Graduates of the Wine Professional Certificate will be prepared for careers in the restaurant/ hospitality industry, wine distribution, and wholesale/retail wine trade.

Program Outcomes

- 1. Graduates will have knowledge and skills in professional tasting techniques for assessment and evaluation of wine.
- 2. Graduates will have knowledge and skills in wine service techniques.
- 3. Graduates will have knowledge and skills in wine business considerations.
- 4. Graduates will have knowledge and skills in wine merchandising, marketing and public relations.

Program Faculty

Nikki Erpelding nikki.erpelding@saintpaul.edu

Program Requirements

 \blacksquare Check off when completed

- All credits must be completed in one semester.
- Must be 21 years of age**

Course

_			
	CULA	1600	Professional Introduction to Wine2
	CULA	1610	Flavor Dynamics of Wine2*
	CULA	1620	Professional Wine Service**1
	CULA	1630	Strategies for Pairing
			Food and Wine 2
	CULA	1640	Wine Marketing2

Total Program Credits9

*Course has a differential tuition rate. Check the Course Schedule at www.saintpaul.edu/CourseSchedule for current course costs.

**Alcohol awareness/server training is part of CULA 1620

Program Start Dates

Fall, Spring

Course Sequence

The following sequence is required.

- All courses must be completed within the same semester.
- Program is not eligible for financial aid.

One Semester

Cr

CULA 1600 Professional Introduction to Wine 2
CULA 1610 Flavor Dynamics of Wine 2
CULA 1620 Professional Wine Service1
CULA 1630 Strategies for Pairing Food and Wine 2
CULA 1640 Wine Marketing 2
Total Semester Credits
Total Program Credits

Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements:

Must be 21 years of age.**

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Information is subject to change. This Program Requirements Guide is not a contract.

2014 - 2015

Wine and Artisan Foods CERTIFICATE

Program Overview

The Wine and Artisan Foods certificate provides the graduate with a strong knowledge of wine, wine service skills and wine marketing strategies in addition to current trends in food and wine pairing and preparing Artisan Foods.

Career Opportunities

The wine industry is rapidly expanding within the United States, where wine sales represent the largest wine consumer market in the world. Global wine consumption is predicted to grow another 6.2 percent through 2015, an increase of two billion bottles. Wine sales have now surpassed beer sales, with millennials rapidly adapting to wine over beer. Wine sales are an important profit center for the restaurant/hospitality industry, and thus a comprehensive knowledge of wine is critical for maximizing outcomes.

Opportunities are available in hotels, restaurants, wine bars, resorts, clubs, catering and corporate dining.

Program Outcomes

- Graduates will have knowledge and skills in professional tasting techniques for assessment and evaluation of wine.
- 2. Graduates will have knowledge and skills in wine service techniques.
- 3. Graduates will have knowledge and skills in wine business considerations.
- 4. Graduates will have knowledge and skills in wine merchandising, marketing and public relations.
- 5. Graduates will have the knowledge and skills of artisan foods preparation and wine pairing skills necessary for a full service restaurant.

Program Faculty

Nikki Erpelding nikki.erpelding@saintpaul.edu Program Advisor

Sean Jones Artisan Courses	sean.jones@saintpaul.edu
Marcy Alfonsi Artisan Courses	marcy.alfonsi@saintpaul.edu

Program Requirements

Check off when completed

• Must be 21 years of age**
Course Cr
□ CULA 1600 Professional Introduction to Wine2 □ CULA 1610 Flavor Dynamics of Wine2* □ CULA 1620 Professional Wine Service**1 □ CULA 1630 Strategies for Pairing
Food and Wine 2 CULA 1640 Wine Marketing. 2 CULA 3630 Artisan Baking. 3 CULA 3635 Artisan Cheese 3 CULA 3641 Charcuterie 2
Total Program Credits17

- * Course has a differential tuition rate. Check the Course Schedule at www.saintpaul.edu/CourseSchedule for current course costs.
- ** Alcohol awareness/server training is part of CULA 1620

Program Start Dates

Fall, Spring – Wine Courses Summer – Artisan Courses

Course Sequence

Not all courses are offered each semester.

2014 - 2015

Students should consult with the Program Advisor each semester.

First Semester (Spring or Fall)

CULA 1600 Professional Introduction to Wine 2
CULA 1610 Flavor Dynamics of Wine
CULA 1620 Professional Wine Service**1
CULA 1630 Strategies for Pairing Food and Wine 2
CULA 1640 Wine Marketing2
Total Semester Credits
Second Semester (Summer only)
CULA 3630 Artisan Baking3
CULA 3630 Artisan Baking

Total Semester Credits	• •	•	•	• •	• •	•	•	• •	•	•	•	•	•	• •	•	•	•	8
Total Program Credits																	1	7

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Must be 21 years of age.**

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

Information is subject to change. This Program Requirements Guide is not a contract.

Sign Language Interpreter/Transliterator AAS DEGREE

Program Overview

The Sign Language Interpreter/Transliterator AAS Degree program prepares individuals to work as interpreter/transliterators facilitating and mediating communication between Deaf/ Hard of Hearing/Deaf-Blind and hearing people. Interpreters must convey accurate messages, feelings and attitudes of participants, whether those messages are spoken or signed. To accomplish this, competency in English and in American Sign Language are necessary. A strong academic background, and traits that demonstrate maturity, responsibility, flexibility, and the ability to work well under pressure, are assets.

The curriculum requires both general education courses as well as courses specifically related to the Deaf Community and interpreting. The program covers a variety of subject areas which include ASL linguistics and language development, interpreting process theory and application, interpreter roles/responsibilities and interpreter's Code of Professional Conduct, history of deaf people and their culture, and the historical evolvement of the interpreting profession. Interpreting and Transliterating skills courses provide guided practice in developing the skills necessary to effectively interpret/transliterate.

Students will experience a variety of learning environments including classroom work, laboratory practice and field placement. Students will be required to have both in-class and outof-class experiences with members of the Deaf Community to further develop ASL fluency and cultural awareness.

Career Opportunities

Graduates will be qualified for careers as entry-level sign language interpreters with social service agencies, educational programs, community-based settings, or recreational situations. The employment outlook, due to accessibility legislation, has increased the need for interpreters.

Graduates will have opportunities to further their education and to specialize in their work through professional affiliations or by obtaining national certification. Graduates who plan to work in K-12 educational settings must hold a Provisional Certificate which allows them to become a practitioner for a maximum of two years or until they obtain national certification.

Program Start Dates

Fall Semester

Program Outcomes

- Graduates will have an understanding and knowledge about the theoretical, ethical, and practical foundations of the interpreting field needed to pass the NAD-RID National Interpreter Certification (NIC) written test.
- 2. Graduates will have the knowledge and skills to interpret between American Sign Language and English.
- 3. Graduates will have the knowledge and skills to transliterate between spoken English and a signed form of English.
- 4. Graduates will have the knowledge and skills to function as cross-cultural mediators in order to transmit and transfer culturally-based linguistic and non-linguistic information.
- Graduates will be informed of the necessary employment knowledge, and professional behaviors that are requisite for employment as Sign Language Interpreters/Transliterators.
- 6. Graduates will sit for national certification within two years of graduation.

Program Faculty

Linda Gill linda.gill@saintpaul.edu Patty O'Connell patricia.oconnell@saintpaul.edu

Special Features

The Sign Language Interpreter/Transliterator Program is one of the original six interpreter programs in the United States. It was established in 1972.

Transfer Opportunities

Saint Paul College has transfer articulation agreements between the following program and post-secondary institutions for the baccalaureate degree programs listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Sign Language Interpreter/Transliterator AAS

- BA Individualized Studies Metropolitan State University
- BS Applied Organizational Studies Minnesota State University, Mankato

Program-Specific Admission Process The Sign Language Interpreter/Transliterator program has a program-specific admission process.

Admission requirements include completing the following course work before submitting the Program Major Application:

- American Sign Language 1 with a "C" or better
- American Sign Language 2 with a "C" or better
- American Sign Language 3 with a combined GPA of 3.0 in ASL 3 & ASL 4
- American Sign Language 4 with a combined GPA of 3.0 in ASL 3 & ASL 4
- English Composition 1 (ENGL 1711 or comparable course) with a "C" or better
- Psychology Throughout the Lifespan (PSYC 1720) preferred; General Psychology (PSYC 1710) accepted. Course must be completed with a "C" or better

Program Major Application Form Submission

The Program Major Application form is called the "Application to Sign Language Interpreter/ Transliterator AAS Degree Major" and is available on the program Web page. On the Program Major Application form, students verify satisfactory completion or courses in progress of the above requirements.

Above average skills on college assessment tests for reading and writing English are used to determine entry into the program.

ASL Courses must have been taken within the past 18 months:

Students who have not had recent ASL courses (within the past 18 months) at date of application will need to refresh their skills by repeating their last ASL course or by taking ASL 5 during the summer term prior to beginning the Sign Language Interpreter/Transliterator Program.

The Credit by Examination/Test-Out is available for ASL 1 and ASL 2 only. Credit by Examination/ Test-Out are not transferable from another educational institution.

Continued on back

Minimum Program Entry Requirements

Complete prerequisite ASL 1 and ASL 2 with grade of "C" or better, ASL 3 and ASL 4 with a combined GPA of 3.0. Complete prerequisite of Composition 1 (ENGL 1711) and Psychology Throughout the Lifespan (PSYC 1720) preferred; General Psychology (PSYC 1710) accepted. Course must be completed with "C" grade or better.

It is necessary for students in the Sign Language Interpreter/Transliterator Program to be able to process auditory and visual information.

Reading: Score of 80+ or grade of "C" or better in READ 0722 **Writing:** Score of 78+ on Reading Comprehension or grade of "C" or better in ENGL 1415 **Arithmetic:** Score of 57+ or grade of "C" or better in MATH 0742. **Assessment Results and Prerequisites:** Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

(7056) 049A (624A)

Information is subject to change. This Program Requirements Guide is not a contract.

Sign Language Interpreter/Transliterator AAS DEGREE (continued)

Program Requirements

Program Requirements
☑ Check off when completed
Program Prerequisites
ASLS 1411 American Sign Language 1 (3 cr) with a grade of "C" or better
ASLS 1412 American Sign Language 2 (3 cr) with a grade of "C" or better
ASLS 1413 American Sign Language 3 (3 cr) with a combined GPA of 3.0 in
ASL 3 & ASL 4
ASLS 1414 American Sign Language 4 (3 cr) with a combined GPA of 3.0 in
ASL 3 & ASL 4
Pre-Core Program General Education Courses
Prior to Official Acceptance into Program: Cr
In addition to completing the Program Prerequisites above, the following two General Education courses must be completed, or in progress with, a "C" or better grade prior to submitting your Program Major Application called the Application to Sign Language Interpreter/Transliterator AAS Degree Major form.
□ ENGL 1711 English Composition 1 (or comparable course)
(MnTC - Goal 1)
 PSYC 1720 Psychology Throughout the Lifespan preferred; (PSYC 1710 General Psychology accepted) (MnTC - Goal 1-10)
Core Courses Cr
Core Courses Cr
The following Core courses can only be taken after official acceptance into the
Sign Language Interpreter/Transliterator program.
ASLS 1420 ASL Linguistics
□ ASLS 1430 Classifiers
□ ASLS 1435 Deaf Studies/Culture
□ INTP 1440 Orientation to Interpreting
□ INTP 1442 English Grammar for Sign Language Interpreters
INTP 1500 Interpreting Process
□ INTP 1512 Consecutive Interpreting 1
□ INTP 1513 Consecutive Interpreting 2
□ INTP 2411 Sign to Voice Interpreting 1
□ INTP 2412 Sign to Voice Interpreting 2
□ INTP 2421 Voice to Sign Interpreting 1
\Box INTP 2422 voice to sign interpreting 2
□ INTP 2432 Transliterating 2
□ INTP 2585 Internship Seminar1
□ INTP 2592 Interpreter Internship
□ Technical Electives
Select 2 credits from the following electives:
□ ASLS 1415 American Sign Language 5
□ ASLS 1443 ASL Fingerspelling and Numbers
ASLS 1446 ASL Non-Manual Markers
ASLS 1448 American Sign Language Semantics
INTP 1465 Special Topics: Interpreting
2 credits must be taken from the following electives:
□ INTP 2410 Video Relay/Video Remote Interpreting OR
□ INTP 2450 Deaf/Blind Interpreting
Core Credits
Remaining General Education/MnTC Requirements Cr
Must complete at least 9 remaining credits from the Minnesota Transfer
Curriculum (MnTC)
Goal 1: Communication
SPCH XXXX (required) (Goal 1 only) – 3 cr
Goal 3 or Goal 4
Goal 4: Mathematical/Logical Reasoning
Goal 6: Humanities and Fine Arts
Remaining General Education Requirements
Core Credits 51
Pre-Core General Education Requirements
Total Program Credits

Course Sequence

The following sequence is recommended for a full-time student. Students are encouraged to take a portion of their general education requirements in the summer term during their program in order to lessen their academic load during the school year.

Part-time day and evening courses are available during the fall and spring of the first year of the 2-year program. The second year of the program must be taken full-time, days. Not all courses are offered each semester; a selection of courses is offered summer term.

Required General Education Courses to be taken prior, or in progress, to submitting Program Major Application: ENGL 1711 English Composition 1
With Official Acceptance into the Program, students begin taking INTP/ASLS Core Courses as follows:
Fall Semester (First Term) ASLS 1420 ASL Linguistics 4 must be taken concurrently with or previous to INTP 1500 4 and INTP 1442 1442
ASLS 1435 Deaf Studies/Culture
INTP 1442 English Grammar for Sign Language Interpreters
INTP 1500 Interpreting Process
Goal 1: Communication SPCH XXXX (required) (Goal 1 only) 3 Total Semester Credits
Spring Semester (Second Term)ASLS 1430 Classifiers3INTP 1440 Orientation to Interpreting3INTP 1512 Consecutive Interpreting 14Goal 3: Natural Sciences OR Goal 4: Mathematical/Logical Reasoning3Total Semester Credits13
Summer Term (Third Term) INTP 1513 Consecutive Interpreting 2 Goal 6: Humanities and Fine Arts 3 Total Semester Credits 5
Fall Semester (Fourth Term)INTP 2411 Sign to Voice Interpreting 14INTP 2421 Voice to Sign Interpreting 14INTP 2431 Transliterating 14INTP 2585 Internship Seminar1Total Semester Credits13
Spring Semester (Fourth Term)INTP 2412 Sign to Voice Interpreting 22INTP 2422 Voice to Sign Interpreting 22INTP 2432 Transliterating 22INTP 2592 Interpreter Internship5Technical Electives4Total Semester Credits15
Total Program Credits

STEM: Science, Technology, Engineering & Math

Science & Math Courses

Science

Biochemistry	79
Biology	79
Chemistry	79
Natural Sciences	79
Physics	80

Mathematics

Mathematics	30
	50

Science, Technology and Engineering Programs

Science

Chemical Technology AS Degree (60 Credits)	181
Chemical Technology Certificate (29-32 Credits)	182

Engineering

Biomedical Engineering Technology AS Degree
(60 Credits)
Pre-Engineering AS Degree (60 Credits)184

Computer Science

Computer Science AS Degree (60 Credits)
Management Information Systems AS Degree
(60 Credits)
Computer Network Engineering AAS Degree
(60 Credits)
Computer Programming AAS Degree (60 Credits)190
Network Administration Certificate (24 Credits) 192
Java Programming Certificate (24 Credits)
Web Development Certificate (24 Credits)
Mobile Development Certificate (24 Credits)
Computer Gaming and Metaverse Development
Certificate (24 Credits)

For additional computer programs, see Computer Graphics and Visualization Programs, pages 109-115.

STEM: Science, Technology, **Engineering & Math Courses**

Course delivery methods change on a semester basis. Please check the current course schedule for the most up-to-date information at www.saintpaul.edu/CourseSchedule.

Science

Biochemistry

Biochemistry is the study of the chemical reactions in living organisms, and it contains aspects of organic and inorganic chemistry as well as biology. Topics covered in biochemistry include protein structure and function, as well as cell metabolic processes that include lipids, carbohydrates, proteins, and nucleic acids. Biochemistry includes fundamental concepts that can be applied to molecular biology, immunochemistry, neurochemistry, and biophysical chemistry. It has a wide range of applications which can be applied to fields such as medicine, agriculture, toxicology, and engineering to name a few. Biochemists often work in modern research laboratories and participate in stimulating, creative work. They interact with scientists from other fields because their research is intertwined. The application of biochemistry to other fields focuses on improving the quality of life. Opportunities for employment in this field are expected to grow in industry, medicine, and genetic research.

Course		Cr
BIOC 1760	Chemical & Biological Instrumentation	4
BIOC 1761	Chemical & Biological Ethics & Regulations	4
BIOC 1790	Special Topics in Biochemistry	1-6
BIOC 2700	Biochemistry	4
BIOC 2790	Biochemistry Internship/Research Project	1-4

Biology

The Biology department provides high quality educational experiences in the biological sciences including: environmental science, general biology for majors and non-majors, nutrition, medical terminology, forensic science, biology of men and women, human anatomy and physiology for majors and non-majors, and microbiology. The faculty believe biology occupies a central position in the physical sciences and that an understanding of fundamental biological principles enables students to make better-informed decisions for work and life roles. The biology faculty promote active learning in lecture and lab activities, interacting closely with students at various levels of academic development. Biology courses serve the College and students by providing offerings that satisfy requirements for general education, allied health and preprofessional transfer programs. Biology faculty are committed to excellence in teaching and scholarship providing a variety of lab/field experiences and online applications.

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Course		Cr
BIOL 1471	Medical Terminology	2
BIOL 1725	Environmental Science	4
BIOL 1730	Human Body Systems	3
BIOL 1735	Understanding Biology	4
BIOL 1740	General Biology 1: The Living Cell	5
BIOL 1745	General Biology 2: The Living World	5
BIOL 1760	Nutrition	3
BIOL 1782	Introduction to Forensic Science	4
BIOL 1785	Biology of Men and Women	3
BIOL 1790	Special Topics in Biology	1-6
BIOL 2721	Human Anatomy and Physiology 1	4
BIOL 2722	Human Anatomy and Physiology 2	4
BIOL 2750	General Microbiology	4
BIOL 2760	Cell and Molecular Biology	5
BIOL 2770	Biology Internship	1-4

Chemistry

The Chemistry department offers courses that provide an understanding of chemical principles across the discipline. The chemistry faculty believe that an understanding of fundamental chemical principles enables students to make better- informed decisions on a wide variety of issues related to work and life roles. The faculty interact closely with students, a diverse population at various levels of academic development, to help them develop capabilities in science and become lifelong learners. Chemistry courses fulfill requirements for general education and various graduation requirements.

Course		Cr
CHEM 1700	Chemistry Concepts	4
CHEM 1711	Principles of Chemistry 1	4
CHEM 1712	Principles of Chemistry 2	4
CHEM 2720	Organic Chemistry 1	5
CHEM 2721	Organic Chemistry 2	5
CHEM 2790	Chemical Technology Laboratory	
	Internship/Research Project	1-4
CHEM 2791	Cleanroom Lab Internship/Research Project	1-4
CHEM 2795	Special Topics in Chemistry	1-6

Natural Sciences

The Natural Sciences department offers courses in the areas of earth science, geology, oceanography, and meteorology. Natural Science courses fulfill Goals 3, 9 & 10 of the Minnesota Transfer Curriculum, as well as various graduation requirements.

Course		Cr
NSCI 1710	Earth Science	4
NSCI 1721	Introduction to Geology	4
NSCI 1730	Introduction to Oceanography	3
NSCI 1740	Introduction to Meteorology	3
NSCI 1750	Natural Disasters	3
NSCI 1770	Introduction to Energy and the Environment	3
NSCI 1780	Contemporary Issues in Science	3
NSCI 1782	Minnesota Geology	3
NSCI 1790	Special Topics in Natural Science	1-6
NSCI 2770	Natural Sciences Internship	1-4

Physics

The study of Physics involves the study of matter and motion, energy and forces. The Physics department offers Principles of Physics 1 and 2 as well as General Physics 1 and 2 with a calculus base. Students enroll in physics courses to fulfill the Minnesota Transfer Curriculum requirements and various graduation requirements.

Course		Cr
PHYS 1720	Principles of Physics 1	4
PHYS 1722	Principles of Physics 2	4
PHYS 1760	Descriptive Astronomy (no lab)	3
PHYS 2700	General Physics 1 (with Calculus)	5
PHYS 2710	General Physics 2 (with Calculus)	5
PHYS 2760	Introductory Astronomy (with lab)	4
PHYS 2790	Special Topics in Physics	1-6

Mathematics

Mathematics

The study of mathematics provides foundational knowledge for understanding other disciplines, as well as logical reasoning and problem solving skills for work and life roles. The department offers a full curriculum to meet the educational needs of our students such as developmental offerings, mathematics courses specific to majors and a range of general education courses including Statistics, College Algebra, Calculus, and Ordinary Differential Equations. Courses fulfill Minnesota Transfer Curriculum requirements and graduation requirements.

Course		Cr
MATH 0741*	Math Fundamentals 1	3
MATH 0742*	Math Fundamentals 2	3
MATH 0743*	Accelerated: Math Fundamentals 1 & 2	6
MATH 1411*	Applied Mathematics	3
MATH 1420*	Trade Algebra and Trigonometry	3
MATH 1510*	Introductory Algebra	3
MATH 1520*	Intermediate Algebra	3
MATH 1521*	Accelerated: Intro and Intermediate Algebra	6
MATH 1710	Liberal Arts Mathematics	3
MATH 1730	College Algebra	3
MATH 1740	Introduction to Statistics	4
MATH 1750	Trigonometry	3
MATH 1760	Pre-Calculus	4
MATH 1790	Special Topics in Mathematics	1-6
MATH 2749	Calculus 1	4
MATH 2750	Calculus 2	4
MATH 2753	Calculus 3	4
MATH 2760	Ordinary Differential Equations	4

* Does not meet Minnesota Transfer Curriculum (MnTC) Distribution Requirements

Chemical Technology AS DEGREE

Program Overview

The Chemical Technology AS Degree is designed for students planning to complete chemistry courses and general education requirements for transfer to a four-year program and/or for employment as a chemical laboratory assistant.

Career Opportunities

Chemical technologists can work in many aspects of the chemical process industry, from basic research to clean room facility skills. Technologists operate many kinds of equipment and instrumentation, set up apparatus for chemical reactions, prepare compounds, monitor commercial production, test for product quality, and collect and analyze samples produced through organic synthesis. They conduct a variety of laboratory procedures, from routine process control to complex research projects. Technicians also work in data management, quality control, and shipping to provide technical support and expertise for these functions. A solid background in chemistry and math is vital, along with skills in using advanced laboratory equipment and standard labware. An associate's degree in Chemistry or Chemical Technology is the best preparation for work in the field.

Program Outcomes

- 1. Design and conduct experiments as well as analyze and interpret results.
- 2. Identify, formulate and solve chemical technology problems.
- 3. Understand professional and ethical responsibility.
- Apply knowledge of mathematics, science, and technology in the solution of chemical technology problems.
- Solve chemical technology problems within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

Program Faculty

Penny Starkey penny.starkey@saintpaul.edu Travis Mills travis.mills@saintpaul.edu

Part-Time/Full-Time Options

This program can be completed by using a combination of day, evening, Saturday, hybrid, and online courses. Part-time and full-time options are available. Costs will vary depending on part-time or full-time enrollment.

Program Requirements

 \blacksquare Check off when completed

Technical Requirements Cr
 BIOC 1760 Chemical & Biological Instrumentation
General Education/MnTC Requirements Cr
Refer to the Minnesota Transfer Curriculum Course List for each Goal Area Goal 1: Communication7 ENGL 1711 Composition 1 (required) – 4 cr SPCH XXXX (required) (Goal 1 only) – 3 cr
 Goal 4: Mathematical/Logical Reasoning8 MATH 2749 Calculus 1 (required) – 4 cr MATH 2750 Calculus 2 (required) – 4 cr Goal 5: History, Social Sciences and
Behavioral Sciences

Total Program Credits60

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Chemical Technology AS

BS Chemistry-ACS Approved St. Cloud State University

Program Start Dates

Fall, Spring, Summer

Course Sequence

This course sequence is recommended for a full-time student; however, this sequence is not required. Not all courses are offered each semester; a selection of courses is offered summer term. Students should consult with the Program Advisor each semester.

First Semester

BIOL 1760 Chemical and Biological Instrumentation 4
CHEM 1711 Principles of Chemistry 14
ENGL 1711 Composition 14
Elective
Total Semester Credits15

Second Semester

CHEM 1712 Principles of Chemistry 24
MATH 2749 Calculus 1
SPCH 17xx Speech Elective
History, Social and Behavioral Science (Goal 5)3
Total Semester Credits

Third Semester

CHEM 2720 Organic Chemistry 15
MATH 2750 Calculus 24
PHYS 2700 General Physics 1
Humanities and Fine Arts (Goal 6)
Total Semester Credits
Fourth Semester
CHEM 2721 Organic Chemistry 25
PHYS 2710 General Physics 25
Elective
Total Semester Credits
Total Program Credits60

Minimum Program Entry Requirements Students entering this program must meet the

following minimum program requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 78+ or grade of "C" or better in ENGL 1415

Elementary Algebra: Score of 76+ or grade of "C" or better in MATH 1510

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain courses in the program have additional prerequisites.

294S (7167)

Information is subject to change. This Program Requirements Guide is not a contract.

2014 - 2015

Chemical Technology CERTIFICATE

Program Overview

The Chemical Technology Certificate prepares students to assist scientists in laboratories on the research and development of chemical processes and materials to meet society's changing needs. Working in experimental laboratories or in manufacturing and industrial plants, technicians perform a number of important duties such as the operation of laboratory equipment, evaluating product quality and consistency and testing for environmental acceptability.

Career Opportunities

Chemical technicians operate many kinds of equipment and instrumentation, set up apparatus for chemical reactions, prepare compounds, test for product quality, and collect and analyze samples produced through organic synthesis. Technicians also work in data management, quality control, and shipping to provide technical support and expertise for these functions. A solid background in chemistry and math is vital, along with skills in using advanced laboratory equipment and standard labware.

Program Outcomes

- 1. Design and conduct experiments as well as analyze and interpret results.
- 2. Identify, formulate and solve chemical technology problems.
- 3. Understand professional and ethical responsibility.
- Apply knowledge of mathematics, science, and technology in the solution of chemical technology problems.

Program Faculty

Penny Starkey penny.starkey@saintpaul.edu

Part-Time/Full-Time Options

This program can be completed by using a combination of day, evening, Saturday, hybrid, and online courses. Part-time and full-time options are available. Costs will vary depending on part-time or full-time enrollment.

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

Technical Requirements Cr
BIOC 1760 Chemical & Biological
Instrumentation
BIOC 1761 Chemical & Biological Ethics and
Regulations4
□ CHEM 1711 Principles of Chemistry 14
□ CHEM 1712 Principles of Chemistry 24
□ CHEM 2720 Organic Chemistry 15
□ CHEM 2721 Organic Chemistry 25
CHEM 2790 Chemical Technology Laboratory
Internship/Research Project 1-4
ENGR 1706 Principles of Engineering2
Total Program Credits

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Chemical Technology Certificate

BA Individualized Studies Metropolitan State University

Program Start Dates

Fall, Spring, Summer

Course Sequence

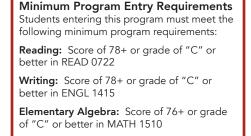
For individual course sequence recommendations, contact Penny Starkey, Program Faculty, at penny.starkey@saintpaul.edu.

First Semester

BIOL 1760 Chemical and Biological Instrumentation4 CHEM 1711 Principles of Chemistry 1
Second Semester BIOC 1761 Chemical and Biological Ethics and Regulations
Third Semester CHEM 2720 Organic Chemistry 1
rourth semester

Fourth Semester

CHEM 2721 Organic Chemistry 25
CHEM 2790 Chemical Technology Lab Internship/
Research Project
Total Semester Credits
Total Program Credits



Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain courses in the program have additional prerequisites.

293C

Information is subject to change. This Program Requirements Guide is not a contract.

Biomedical Engineering Technology AS DEGREE

Program Overview

The Biomedical Engineering Technology AS Degree provides students with the skills for the growing field of biomedical engineering technology, which involves the design, construction, and use of electronic and mechanical devices to solve medically-relevant needs. Examples of work in this field include medical device design, fabrication and testing, physiological function monitoring, and biomedical informatics, among numerous other career paths. Math, science, and engineering courses are required program components of the program. The AS Degree is designed for transfer to a four-year degree in Biomedical Engineering Technology or related fields. It can also provide preparation for employment as biomedical technicians.

Career Opportunities

The demand for increasingly sophisticated medical devices is driving an increased need for biomedical engineers. Biomedical engineers can be employed in a number of areas such as Bioinformatics, BioMEMS, Biomaterials, Biomechanics, Biosignal Processing, as well as Micro and Nanotechnology.

Program Outcomes

- 1. Apply knowledge of mathematics, science, and engineering in the solution of biomedical engineering problems.
- 2. Design and conduct experiments as well as analyze and interpret results.
- Design a biomedical engineering system, component, or process to meet the desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- 4. Identify, formulate and solve engineering problems.
- 5. Understand professional and ethical responsibility.
- 6. Recognize the need for and develop an ability to engage in life-long professional development and learning.
- 7. Utilize techniques, skills, and modern engineering tools necessary for biomedical engineering practice.

Program Faculty

Nasreen Mehmood 651.846.1663 nasreen.mehmood@saintpaul.edu

Part-Time/Full-Time Options

This program can be completed by using a combination of day, evening, Saturday, hybrid, and online courses. Part-time and full-time options are available. Costs will vary depending on part-time or full-time enrollment.

Program Requirements

Program Requirements
☑ Check off when completed
Technical Requirements Cr
 BIOC 1760 Chemical & Biological Instrumentation
545664411111111111111111111111111111111
General Education/MnTC Requirements Cr

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Biomedical Engineering Technology AS BA Individualized Studies Metropolitan State University

Program Start Dates

Fall, Spring, Summer

Course Sequence

This course sequence is recommended for a full-time student; however, this sequence is not required. Not all courses are offered each semester; a selection of courses is offered summer term. Students should consult with the Program Advisor each semester.

First Semester

BIOC 1760 Chemical & Biological Instrumentation4
BIOL 1471 Medical Terminology2
BIOL 1730 Human Body Systems
ENGL 1711 Composition 14
ENGR 1706 Principles of Engineering2
Total Semester Credits

Second Semester

BIOC 1761 Chemical & Biological Ethics &

Regulations4
CHEM 1711 Principles of Chemistry 14
ENGR 1712 Computer Integrated Manufacturing2
MATH 2749 Calculus 14
Total Semester Credits14
Third Semester
Third Semester BIOL 1740 General Biology 1
BIOL 1740 General Biology 1

Fourth Semester

Fourth Semester
BIOL 2760 Cell & Molecular Biology
ENGR 2700 Intro to Problem Solving &
Engineering Design
SPCH 1710 Public Speaking
Goal Area 5
Goal Area 6
Total Semester Credits16
Total Program Credits60

Minimum Program Entry Requirements Students entering this program must meet the following minimum program requirements:
Reading: Score of 78+ or grade of "C" or better in READ 0722
Writing: Score of 78+ or grade of "C" or better in ENGL 1415
Elementary Algebra: Score of 76+ or grade of "C" or better in MATH 1510
Assessment Results and Prerequisites: Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain courses in the program have additional prerequisites. 2875 (7161)

Information is subject to change. This Program Requirements Guide is not a contract.

2014 - 2015

2014 – 2015

Pre-Engineering AS DEGREE

Program Overview

Engineering is a profession that uses basic knowledge from the mathematical and natural sciences and utilizes the materials and forces of nature to develop systems that will perform optimally and economically for the benefit of mankind. The Pre-Engineering program is designed to provide for a student's first two years of a four-year Engineering degree. The curriculum is designed to meet the needs of those students who have not yet decided on a specific engineering field. The program focuses on developing a fundamental knowledge of physics, chemistry, and mathematics.

Career Opportunities

Engineering occupations are expected to grow by more than 10% through 2020 according to the Bureau of Labor Statistics. Engineering includes careers with branches in civil, agriculture, chemical, electrical, mechanical and aerospace sciences just to name a few. This AS degree transfers into the General Engineering BSE at Minnesota State University, Mankato. The Integrated BSE degree will be taught at Normandale Community College in Bloomington.

Program Outcomes

- 1. Apply knowledge of mathematics, science, and engineering in the solution of engineering problems.
- 2. Design and conduct experiments as well as analyze and interpret results.
- Design and engineering system, component, or process to meet the desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- 4. Understand professional and ethical responsibility.
- Recognize the need for and develop an ability to engage in life-long professional development and learning.
- 6. Utilize techniques, skills, and modern engineering tools necessary for engineering practice.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Pre-Engineering AS

SE

General Engineering Minnesota State University-Mankato

Program Faculty

Pam Schumacher pam.schumacher@saintpaul.edu

Part-Time/Full-Time Options

This program can be completed by using a combination of day, evening, Saturday, hybrid, and online courses. Part-time and full-time options are available. Costs will vary depending on part-time or full-time enrollment.

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

Technical Requirements Cr
Iechnical Requirements Cr CHEM1712 Principles of Chemistry 2 4 ENGR 1706 Principles of Engineering 2 ENGR 1714 Engineering CAD 2 ENGR 1716 Circuit Analysis 3 ENGR 2705 Statics 3 ENGR 2710 Dynamics 3 MATH 2750 Calculus 2 4 MATH 2750 Calculus 3 4 MATH 2760 Ordinary Differential Equations 4
Technical Requirements

General Education/MnTC Requirements Refer to the Minnesota Transfer Curriculum

Course List for each Goal Area

- Goal 1: Communication7 ENGL 1711 Composition 1 (required) – 4 cr SPCH 1710 Public Speaking - 3 cr □ Goal 3 or Goal 4 select 18 credits from Goal 3: Natural Sciences CHEM 1711 Principles of Chemistry 1 - 4 cr PHYS 2700 General Physics 1 (with calculus) - 5 cr PHYS 2710 General Physics 2 (with calculus) - 5 cr Goal 4: Mathematical/Logical Reasoning MATH 2749 Calculus 1 – 4 cr □ Goal 5: History, Social Sciences and ECON 1720 Macroeconomics OR ECON 1730 Microeconomics (recommended) ARTS 1724 The Design of Everyday Life

Information is subject to change. This Program Requirements Guide is not a contract.

Program Start Dates

Fall, Spring, Summer

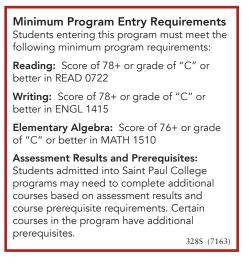
Course Sequence

This course sequence is recommended for a full-time student. Not all courses are offered every semester. Students should consult with the Program Advisor each semester.

First Semester

Cr

CHEM 1711 Principles of Chemistry 1
Second Semester ECON 1720 Macroeconomics. 3 MATH 2750 Calculus 2 4 PHYS 2700 General Physics 1 (with calculus) 5 SPCH 1710 Public Speaking 3 Total Semester Credits. 15
Third Semester CHEM1712 Principles of Chemistry 24 ENGR 2705 Statics MATH 2753 Calculus 3 MATH 2753 Calculus 3 4 PHYS 2710 General Physics 2 (with calculus) 5 Total Semester Credits.
Third SemesterENGR 1716 Circuit AnalysisENGR 2710 Dynamics3MATH 2760 Ordinary Differential Equations4Humanities Elective3Total Semester Credits
Total Program Credits60



Computer Science AS DEGREE

Program Overview

The Associate in Science Degree in Computer Science is designed to provide students with opportunities for immediate employment or for transfer to four-year institutions. The College has developed articulation agreements with four-year institutions to assist students with their transfer goals. See a Transfer Specialist for further information.

Students planning a career in this area should have above average mathematic reasoning and communication skills. Students should exhibit qualities of patience, and preciseness and enjoy working in a team environment.

Career Opportunities

Graduates of this program may choose to continue their education at a four-year institution in a Computer Science or related field. Others may elect to enter the workforce following graduation. Graduates will find opportunities in the computer science field in the areas of programming or database management in business, manufacturing, government and education. With additional education and experience, students may advance to positions such as Database Analyst, Systems Analyst, Software Developer or Programmer-Analyst.

Program Outcomes

- Graduates will be able to develop complex algorithms which underlie common programming tasks.
- 2. Graduates will be able to construct and analyze the performance of complex data structures and use them to develop efficient computer programs.
- 3. Graduates will have a sound understanding of the mathematics that underlies Computer Science and be able to develop and deploy computer programs which utilize it.
- 4. Graduates of the program will have mastered the general education requirements for work and life roles.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Computer Science AS

BA Individualized Studies Metropolitan State University Program Faculty

Warren Sheaffer warren.sheaffer@saintpaul.edu

Part-time/Full-time Options

Some day and evening class availability. Students may attend full-time or part-time.

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

Course Cr
□ CSCI 1410 Computer Science & Information
Systems4
CSCI 1523 Intro to Computing and Programming
Concepts
CSCI 1524 Intro to Algorithms and Data
Structures
□ CSCI 1533 ANSI C Language Programming2
CSCI 1541 Java Programming 14
□ CSCI 2570 Machine Architecture & Organization 4
□ CSCI 2469 Advanced Programming Principles4
□ CSCI 2460 Discrete Structures of
Computer Science
Subtotal
General Education/MnTC Requirements Cr

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

- □ Goal 4: Mathematical/Logical Reasoning....... 6-7 MATH 1730 College Algebra or higher 3 – 4 cr PHIL 1710 Logic – 3 cr

Total Program Credits 60

* Please refer to specific articulation agreements to determine the best mathematics option.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student. Not all courses are offered each semester.

First Semester

First Semester
CSCI 1410 Computer Science & Information
Systems
ENGL 1711 Composition 14
MATH 2749 Calculus 1
MnTC Elective
Total Semester Credits
Second Semester
CSCI 1523 Intro to Computing and Programming
Concepts
PHYS 1720 Principles of Physics 14
CSCI 1533 ANSI C Language Programming2
PHIL 1710 Logic (Goal 4)
MnTC Elective
Total Semester Credits
Third Semester
CSCI 1524 Intro to Algorithms and Data Structures4
CSCI 1541 Java Programming 1
CSCI 2460 Discrete Structures of Comp Science 4
ECON 1730 Microeconomics (Goal 5)3
Total Semester Credits

Fourth Semester

Fourth Semester
CSCI 2469 Advanced Programming Principles4
CSCI 2570 Machine Architecture & Organization 4
PHIL 1720 Ethics (Goal 6)
SPCH XXXX (Goal 1 only)
Total Semester Credits

Minimum Program Entry Requirements Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

College Level Mathematics: Score of 93+ or grade of "C" or better in MATH 1760

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

2375 (7104)

Management Information Systems AS DEGREE

Program Overview

The Associate in Science Degree in Management Information Systems is designed to provide students with opportunities for immediate employment or for transfer to four-year institutions. The College has developed articulation agreements with four-year institutions to assist students with their transfer goals. See a Transfer Specialist for further information.

Students planning a career in this area should have above average mathematic reasoning and communication skills. Students should exhibit qualities of patience, perseverance, and preciseness, and should enjoy working in a team environment.

Career Opportunities

A management information system degree prepares the student for a career that combines business techniques and computer systems capability. Students study how to provide reporting and analysis using best practices in information technology.

Graduates will find opportunities in the information systems field in business, manufacturing, government and education.

With additional education and experience, students may advance to positions such as Systems Analyst, Software Architect and Business Analyst. Graduates of this program may choose to continue their education at a four-year institution in Management Information Systems or a related field. Others may elect to enter the workforce following graduation.

Program Outcomes

- Graduates will be able to analyze complex business processes and develop process improvements and comprehensive information system requirements specifications to support them.
- 2. Graduates will be able to help build and test information systems in an organization.
- Graduates will be able to utilize accounting and business systems information to develop recommendations for operating cost reduction and improved use of capital investment.
- Graduates will have a sound understanding of business systems, current technologies, organizational structures, communication tools and critical thinking skills to help guide Management Information Systems success.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

Warren Sheaffer warren.sheaffer@saintpaul.edu

Part-time and Full-time Options

This program can be completed by using a combination of day, evening, and Saturday courses. Part-time and full-time options are available; costs will vary depending on part-time or full-time enrollment.

Program Requirements

☑ Check off when completed

Course Cr
□ ACCT 1411 Principles of Accounting 14
BUSN 1440 Marketing Principles
□ BUSN 2450 Management Fundamentals3
□ CSCI 1410 Computer Science & Information
Systems4
□ CSCI 1450 Web Fundamentals/HTML 4
CSCI 1523 Intro to Computing and Programming
Concepts
CSCI 1550 Database Management
Fundamentals
□ CSCI 2410 Management Information Systems3
Subtotal
General Education/MnTC Requirements Cr

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

- □ Goal 1: Communication7 ENGL 1711 Composition 1 (required) – 4 cr. SPCH XXXX (required) (Goal 1 only) – 3 cr
- □ Goal 4: Mathematical/Logical Reasoning...... 7-8 MATH 1740 Intro to Statistics (required) – 4 cr Required: MATH 1730 College Algebra – 3 cr OR MATH 2749 Calculus 1 – 4 cr

Total Program Credits 60

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Management Information Systems AS

BA Individualized Studies Metropolitan State University

Program Start Dates

Fall, Spring, Summer

Course Sequence (Suggested)

The following sequence is recommended for a full-time student. Not all courses are offered each semester.

First Semester

BUSN 2450 Management Fundamentals
Total Semester Credits
Second Semester ACCT 1411 Principles of Accounting 14 BUSN 1440 Marketing Principles3 CSCI 1523 Intro to Computing and Programming Concepts4 MATH 1740 Introduction to Statistics4
Total Semester Credits
Third Semester CSCI 1450 Web Fundamentals/HTML 4 CSCI 2410 Management Information Systems 3 ECON 1720 Macroeconomics 3 Humanities and Fine Arts (Goal 6) 3 SPCH XXXX (Goal 1 only) 3 Total Semester Credits 16
Fourth SemesterCSCI 1550 Database Management Fundamentals4ECON 1730 Microeconomics3General Education Electives (Goals 1-10)7-8(7 credits if completed MATH 1730)(6 credits if completed MATH 2749)Total Semester Credits14-15
Total Program Credits

Continued on back

Minimum Program Entry Requirements Students entering this program must meet the

following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Elementary Algebra: Score of 76+ or grade of "C" or better in MATH 1510

Assessment Results and Prerequisites:

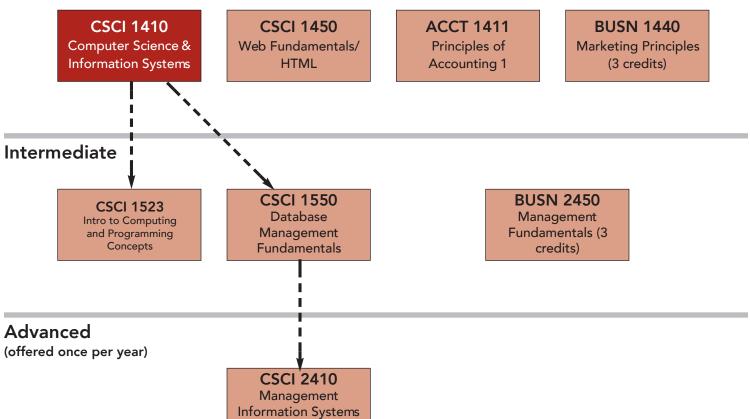
Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

2325 (7102)

Management Information Systems AS DEGREE (continued) (30 credits + 30 GenEd credits)

The below chart illustrates the courses required for completion of this degree.

Introductory



nformation Syster (3 credits)

Computer Network Engineering AAS DEGREE

Program Overview

Networking Specialists can work in a wide variety of jobs. The work could include purchasing, installing, configuring, administrating and/ or supporting. Some jobs in networking could include computer network support, user training, installing and maintaining local and/or wide area networks.

The student should have excellent communication and math skills. For the certificate programs, the student is expected to have prior microcomputer and/or networking experience. He/she should exhibit qualities of patience, perseverance and preciseness and be a logical thinker. The student should enjoy working in a team environment and be able to work independently.

Career Opportunities

With almost every size company connected to some type of network, the jobs in networking have become the fastest growing jobs in the computer field. With companies networking to share resources and reduce expenses the networking specialist is an invaluable part of the new company structure. There is a wide variety

of jobs in networking including installation, maintenance, training, managing and user support.

Graduates find excellent opportunities as Network Administrators, Network Support, and Certified Network Engineers in business, manufacturing, government and education. Jobs for Networking Specialists for all types of installations are found throughout the country with opportunities for excellent earnings and rapid advancement. Jobs include the following:

- Networking Engineer
- Network Help Desk Support
- Datacommunications Specialist
- PC Network Administrator
- Information Specialist
- WAN Manager Network Administrator
- LAN Specialist
- Telecommunications Specialist
- Certified Network Engineer
- LAN Manager

Program Outcomes

- 1. Graduates will have knowledge and skills in computer network engineering.
- 2. Graduates will have knowledge and experience in system design, analysis and maintenance.
- 3. Graduates of the Computer Network programs will be prepared for employment as computer network engineers.
- 4. Graduates will be prepared to take industry certification exams.

Program Faculty

Warren Sheaffer warren.sheaffer@saintpaul.edu

Part-Time/Full-Time Options

Some day and evening class availability. Students may attend full time or part time.

Program Requirements

Check off when completed

Course Cr		
CSCI 1410 Computer Science & Information		
Systems4		
□ CSCI 1423 Computer Networking 1 – Client4		
□ CSCI 1440 Networking Fundamentals		
□ CSCI 1523 Intro to Computing and Programming		
Concepts		
CSCI 2420 Computer Security		
□ CSCI 2451 Computer Networking 2 – Server4		
□ CSCI 2453 Computer Virtualization		
CSCI 2461 Computer Networking 3 – Linux/Unix 4		
□ CSCI 2453 Computer Virtualization		
□ CSCI 2475 A+ Hardware/Operating System Prep 4		
CSCI 2570 Machine Architecture and		
Organization		
Subtotal		
General Education Requirements Cr		

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

Goal 1: Communication7
ENGL 1711 Composition 1 (required) 4 cr
SPCH XXXX (required) (Goal 1 only) 3 cr
□ Goal 3 or Goal 43
Goal 3: Natural Sciences OR
Goal 4: Mathematical/Logical Reasoning
Goal 5: History, Social Science, and
Behavioral Sciences
\Box Goal 6: Humanities and Fine Arts
General Education Requirements
Total Program Credits60

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Computer Network Engineering AAS BS Operations Management

Operations Management Minnesota State University-Moorhead

Information is subject to change. This Program Requirements Guide is not a contract.

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student. Not all courses are offered each semester.

First Semester

CSCI 1410 Computer Science & Information Systems4
Systems 4
5
CSCI 1423 Computer Networking 1 – Client 4
CSCI 1440 Networking Fundamentals4
CSCI 2475 A+ Hardware/Operating System Prep4
Total Semester Credits16
Second Semester
CSCI 1523 Intro to Computing and Programming
Concepts4
CSCI 2465 Computer Networking 4 – Infrastructure 4
ENGL 1711 English Composition (Goal 1)4
Natural Sciences (Goal 3) OR
Mathematical/Logical Reasoning (Goal 4)3 Total Semester Credits15
Third Semester
CSCI 2451 Computer Networking 2 - Server 4
CSCI 2461 Computer Networking 3 – Linux/Unix4
CSCI 2461 Computer Networking 3 – Linux/Unix4 SPCH XXXX (Goal 1 only)3
CSCI 2461 Computer Networking 3 – Linux/Unix 4 SPCH XXXX (Goal 1 only)
CSCI 2461 Computer Networking 3 – Linux/Unix 4 SPCH XXXX (Goal 1 only)
CSCI 2461 Computer Networking 3 – Linux/Unix 4 SPCH XXXX (Goal 1 only)
CSCI 2461 Computer Networking 3 – Linux/Unix4 SPCH XXXX (Goal 1 only)
CSCI 2461 Computer Networking 3 – Linux/Unix4 SPCH XXXX (Goal 1 only)3 History, Social Science, and Behavioral Sciences (Goal 5)3 Humanities and Fine Arts (Goal 6)3 Total Semester Credits17 Fourth Semester
CSCI 2461 Computer Networking 3 – Linux/Unix 4 SPCH XXXX (Goal 1 only)
CSCI 2461 Computer Networking 3 – Linux/Unix 4 SPCH XXXX (Goal 1 only)
CSCI 2461 Computer Networking 3 – Linux/Unix 4 SPCH XXXX (Goal 1 only)
CSCI 2461 Computer Networking 3 – Linux/Unix 4 SPCH XXXX (Goal 1 only)
CSCI 2461 Computer Networking 3 – Linux/Unix 4 SPCH XXXX (Goal 1 only)

Continued on back

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

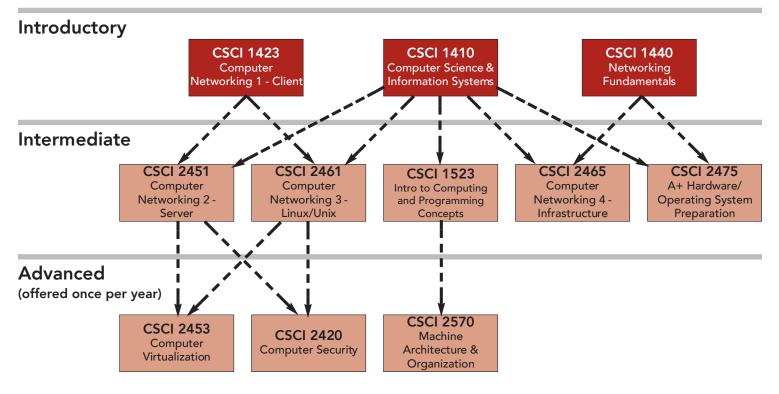
Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

037A(7035)

Computer Network Engineering AAS DEGREE (continued) (44 credits + 16 GenEd credits)

The below chart illustrates the courses required for completion of this degree.



Computer Programming AAS DEGREE

Program Overview

The job of the applications programmer is to (1) review job specifications provided by the system analyst and end user and (2) plan, code, test, and document a programming solution which takes the available data input and produces the desired output in the form of a printed report or a screen display. The programming language(s) used depends on the nature of the problem and the languages available to the programmer at his/her installation.

The student should have above average communications and math skills. He/she should exhibit qualities of patience, perseverance and preciseness and should enjoy working in a team environment and also be able to work independently.

Career Opportunities

Graduates find excellent opportunities as computer programmers in business, manufacturing, government and education. Jobs for computer programmers for all types of computer systems are found throughout the country with opportunities for good earning and rapid advancement. Jobs include: Programmer, Database Project Specialist, Applications Programmer, Technical Programmer, Systems Analyst, MIS Coordinator, Software Developer, Junior Programmer-Analyst, and Senior Programmer-Analyst.

Program Outcomes

- 1. Graduates will be able to design and code production software applications.
- 2. Graduates will be able to analyze complex organizational problems and create design specifications to address these problems.
- 3. Graduates will be able to use industry standard database management systems to support their applications
- Graduates of the degree programs will have mastered the general education requirements for work and life roles.
- 5. Graduates will be prepared to take certification exams in their area of specialization.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Computer Programming AAS

BS Operations Management Minnesota State University-Moorhead

Program Faculty

Warren Sheaffer warren.sheaffer@saintpaul.edu

Program Requirements

Frogram Requirements
☑ Check off when completed
Course Cr
CSCI 1410 Computer Science & Information Systems4
CSCI 1423 Computer Networking – Client 4 CSCI 1450 Web Fundamentals/HTML 4 CSCI 1523 Intro to Computing and Programming Concepts
CSCI 1524 Intro to Algorithms and Data Structures
 □ CSCI 2570 Machine Architecture and Organization .4 □ Technical Electives
 CSCI 1550 Database Management Fundamentals
Complete one of the four Emphases listed below. 16
Java Program Emphasis Cr
 □ CSCI 1541 Java Programming 1
Web Development Emphasis Cr
□ CSCI 2440 Client Side Programming 1
Mobile Development Emphasis Cr
□ CSCI 1531 Objective-C Programming 4 □ CSCI 1541 Java Programming 1 4 □ CSCI 2628 Programming iOS Devices 4 □ CSCI 2629 Programming Android Devices
Computer Gaming and Metaverse Development Emphasis Cr
 □ CSCI 1541 Java Programming 1

General Education Requirements Cr		
Refer to the Minnesota Transfer Curriculum Course List		
for each Goal Area		
Goal 1: Communication		
ENGL 1711 Composition 1 (required) 4 cr		
SPCH XXXX (required) (Goal 1 only) 3 cr		
□ Goal 3 or Goal 4		
Goal 3: Natural Sciences OR		
Goal 4: Mathematical/Logical Reasoning		
Goal 5: History, Social Science, and		
Behavioral Sciences		
\Box Goal 6: Humanities and Fine Arts		
General Education Requirements 16		
Total Program Credits		

Continued on back

Information is subject to change. This Program Requirements Guide is not a contract.

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

009A (7011)

2014 – 2015

Computer Programming AAS DEGREE (continued)

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Not all courses are offered each semester.

First Semester

CSCI 1410 Computer Science &			
Information Systems			
CSCI 1423 Computer Networking – Client			
CSCI 1450 Web Fundamentals/HTML4			
SPCH XXXX (Goal 1 only)			
Total Semester Credits			

Second Semester

CSCI 1523 Intro to Computing and Programming
Concepts
Select Appropriate Emphasis Course4
CSCI XXXX Technical Elective4
Natural Sciences (Goal 3) OR
Mathematical/Logical Reasoning (Goal 4) 3
Total Semester Credits
Third Semester
CSCI 1524 Intro to Algorithms and Data Structures4
Select Appropriate Emphasis Course4
Select Appropriate Emphasis Course4
ENGL 1711 Composition 14
Total Semester Credits

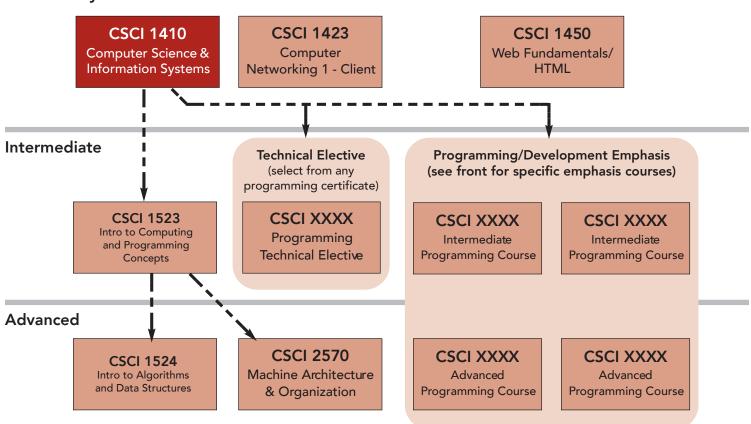
Fourth Semester

CSCI 2570 Machine Architecture and Organization4			
Select Appropriate Emphasis Course			
Humanities and Fine Arts (Goal 6)			
History, Social Science, and Behavioral Sciences			
(Goal 5)			
Total Semester Credits			
Total Program Credits			

Computer Programming AAS Degree (44 credits + 16 GenEd credits)

The below chart illustrates the courses required for completion of this degree.

Introductory



Network Administration CERTIFICATE

Program Overview

The Network Administration Certificate is designed for individuals who already have acquired at least a minimum level of technical computer skills, either through previous education, training, and/or experience. It is designed to enhance one's current computer knowledge and skills.

Networking Specialists can work in a wide variety of jobs. The work could include purchasing, installing, configuring, administrating, and/ or supporting. Some jobs in networking could include help desk support, user training, installing and maintaining local and/or wide area networks.

The student should have excellent communications and math skills. For the certificate programs the student is expected to have prior microcomputer and/or networking experience. He/she should exhibit qualities of patience, perseverance, and preciseness and be a logical thinker. The student should enjoy working in a team environment, and be able to work independently. All networking programs emphasize preparation for either the Microsoft Certified System Administration or Linux Professional Institute (LPI) Certification.

Career Opportunities

With almost every size company connected to some type of network, the jobs in networking have become the fastest growing jobs in the computer field. With companies networking to share resources and reduce expenses the networking specialist is an invaluable part of the new company structure. There is a wide variety of jobs in networking including installation, maintenance, training, managing and user support.

Graduates find excellent opportunities as Network Administrators, Network Support, and Certified Network Engineers in business, manufacturing, government and education. Jobs for Networking Specialists for all types of installations are found throughout the country with opportunities for excellent earnings and rapid advancement. Jobs include the following:

- Networking Engineer
- Network Help Desk Support
- Data Communications Specialist
- PC Network Administrator
- Information SpecialistWAN Manager
- VVAIN IVIanager
- Network Administrator
- LAN Specialist
 Tologomerser
- Telecommunications SpecialistCertified Network Engineer
- LAN Manager

Information is subject to change. This Program Requirements Guide is not a contract.

Program Outcomes

- 1. Graduates will have knowledge and skills in computer network engineering.
- 2. Graduates will have knowledge and experience in computer network system design, analysis, and maintenance.
- 3. Graduates of the Computer Network Programs will be prepared for employment as computer network engineers.

Program Faculty

Warren Sheaffer warren.sheaffer@saintpaul.edu

Part-time/Full-time Options

Some day and evening class availability. Students may attend full time or part time.

Program Requirements

☑ Check off when completed

Course Cr
□ CSCI 1410 Computer Science & Information
Systems4
□ CSCI 1423 Computer Networking 1 – Client4
□ CSCI 1440 Networking Fundamentals
□ CSCI 2451 Computer Networking 2 – Server4
CSCI 2461 Computer Networking 3 –
Linux/Unix4
CSCI 2465 Computer Networking 4 –
Infrastructure4

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a part-time student. Not all courses are offered each semester.

First Semester

CSCI 1423 Computer Science & Information Systems
Second SemesterCSCI 1440 Networking Fundamentals4CSCI 2451 Computer Networking 2 – Server4Total Semester Credits8
Third Semester CSCI 2461 Computer Networking 3 – Linux/Unix Total Semester Credits. 4
Fourth Semester CSCI 2465 Computer Networking 4 – Infrastructure
Total Program Credits 24

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements in addition to having acquired previous technical computer skills:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Requires additional education and/ or experience in the field in addition to assessment requirements

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

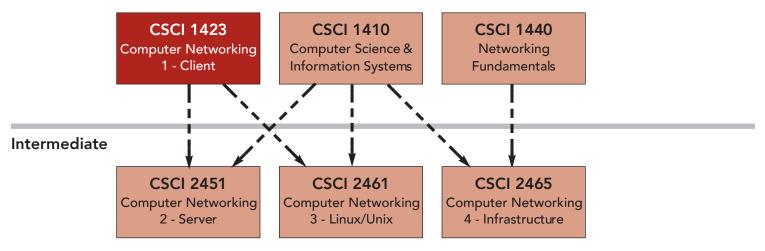
298C (7183)

Continued on back

Network Administration CERTIFICATE (continued) (24 credits)

The below chart illustrates the courses required for completion of this certificate.

Introductory



Java Programming CERTIFICATE

Program Overview

This is a 24 credit certificate program exploring the Java programming language and computing platform. The certificate includes a foundation course in computer science, a web fundamentals course, and an in depth study of databases. It then features a two-course sequence in Java programming and a course in Java for web development. This certificate may be completed apart from a degree program or may be selected as an emphasis in the Computer Programming AAS degree.

The student should have above average communications and math skills. He/she should exhibit qualities of patience, perseverance, and preciseness, and should enjoy working in a team environment and also be able to work independently. All programs emphasize training for industry certification.

Career Opportunities

Graduates find excellent opportunities as computer programmers in business, manufacturing, government and education. Jobs for computer programmers for all types of computer systems are found throughout the country with opportunities for good earning and rapid advancement.

Program Outcomes

- 1. Graduates will be able to design and code production software applications.
- 2. Graduates will be able to use industry standard database management systems to support their applications

Program Faculty

Warren Sheaffer warren.sheaffer@saintpaul.edu

Part-Time/Full-time Options

Some day and evening class availability. Students may attend full time or part time.

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

This program is designed for individuals who have computer programming knowledge or are currently employed in the computer programming field.

Course

	CSCI	1410	Computer Science &
			Information Systems4
\Box	CSCI	1450	Web Fundamentals/HTML
	CSCI	1541	Java Programming 14
	CSCI	1542	Java Programming 24
	CSCI	1550	Database Management
			Fundamentals
	CSCI	2466	J2EE-JSP and Servlets4

Total Program Credits24

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a part-time student. Not all courses are offered every semester. Please contact the program advisor for course sequence.

2014 - 2015

First Semester

Cr

CSCI 1410 Computer Science & Information Systems
CSCI 1450 Web Fundamentals/HTML4
CSCI 1541 Java Programming 1
Total Semester Credits
Second Semester
Second Semester CSCI 1542 Java Programming 24
CSCI 1542 Java Programming 24
CSCI 1542 Java Programming 24 CSCI 1550 Database Management Fundamentals4

Total Program Credits24

Continued on back

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

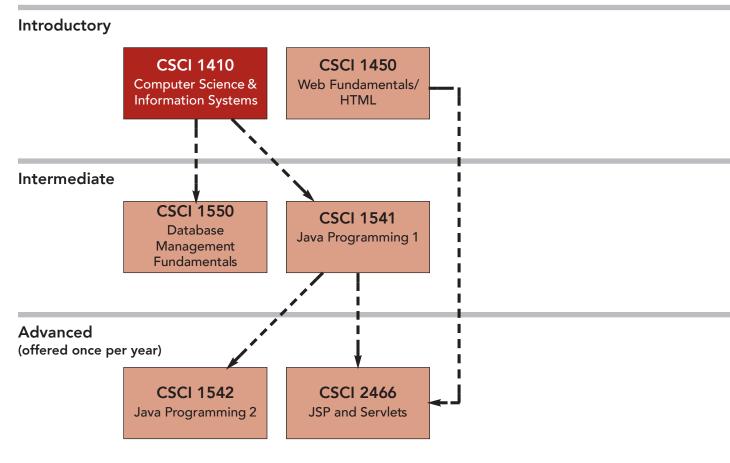
Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

299C (7177)

Information is subject to change. This Program Requirements Guide is not a contract.

Java Programming CERTIFICATE (continued) (24 credits)

The below chart illustrates the courses required for completion of this certificate.



Web Development CERTIFICATE

Program Overview

This is a 24 credit certificate program providing a foundation in current web technologies. It features a two course sequence in client side programming including AJAX, and also coverage of at least two current server side technologies for database driven development. It includes popular technologies like Ruby on Rails and JSP/ Servlets. This certificate may be completed apart from a degree program or may be selected as an emphasis in the Computer Programming AAS degree.

Career Opportunities

Graduates find excellent opportunities as computer programmers in business, manufacturing, government and education. Jobs for computer programmers for all types of computer systems are found throughout the country with opportunities for good earning and rapid advancement.

Program Outcomes

- Graduates will be able to design and code production web applications based on standard client and server side technologies.
- 2. Graduates will be able to use industry standard database management systems to support their applications

Program Advisor

Mark Lynn mark.lynn@saintpaul.edu

Part-Time/Full-time Options

Some day and evening class availability. Students may attend full time or part time.

Program Requirements

 $\ensuremath{\boxdot}$ Check off when completed

This program is designed for individuals who have computer programming knowledge or are currently employed in the computer programming field.

Course Cr
CSCI 1410 Computer Science & Information Systems4
 CSCI 1450 Web Fundamentals/HTML 4 CSCI 2440 Client Side Programming 1 4 CSCI 2442 Server Side Programming 4 Subtotal
 □ Technical Electives
Total Program Credits24

Program Start Dates

Fall, Spring, Summer

Course Sequence

Not all courses are offered every semester. Please contact the program advisor for course sequence.

Continued on back

2014 - 2015

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

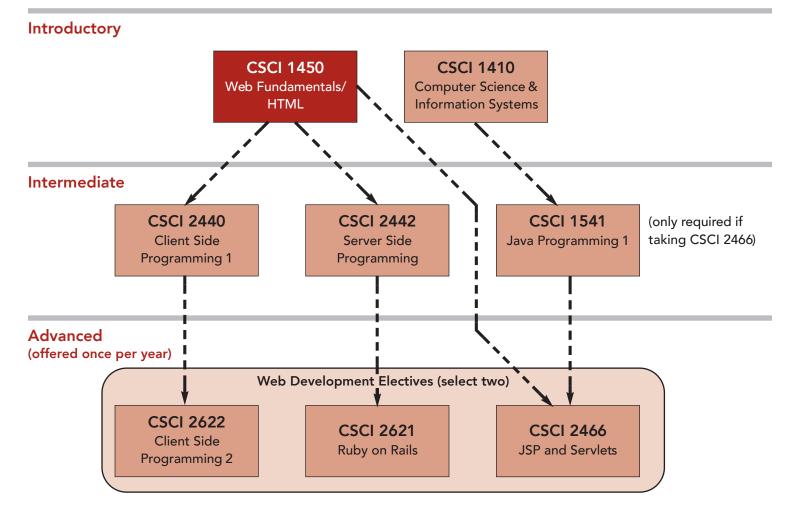
Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

244C (7117)

Information is subject to change. This Program Requirements Guide is not a contract.

Web Development CERTIFICATE (continued) (24 credits)

The below chart illustrates the courses required for completion of this certificate.



Mobile Development CERTIFICATE

Program Overview

This is a 24 credit certificate program introducing development on the two most popular mobile platforms: Android and iOS. The certificate includes a foundation course in computer science, a web fundamentals course, and a two course sequence exploring each mobile platform. This certificate may be completed apart from a degree program or may be selected as an emphasis in the Computer Programming AAS degree.

Career Opportunities

Graduates from the Mobile Development Certificate program will find excellent opportunities in many industries from healthcare to entertainment. Graduates can also find jobs through freelance opportunities and computer Science entrepreneurs.

Program Outcomes

- 1. Students will become proficient in the development of mobile applications for both the iDevice and Android mobile platforms.
- 2. Students will be capable of utilizing industry standard application development platforms for both iDevice and Android software.
- Students will be knowledgeable in application deployment strategies and technologies for both iDevice and Android platforms.
- Student will have a general knowledge of the business model surrounding mobile application development

Program Faculty

Warren Sheaffer warren.sheaffer@saintpaul.edu

Program Requirements

Check off when completed

Course Cr
□ CSCI 1410 Computer Science & Information
Systems4
□ CSCI 1450 Web Fundamentals/HTML
□ CSCI 1531 Objective-C Programming4
CSCI 1541 Java Programming 14
CSCI 2628 Programming iOS Devices
CSCI 2629 Programming Android Devices

Total Program Credits 24

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended for a full-time student. Not all courses are offered each semester.

First Semester

CSCI 1410 Computer Science &
Information Systems
CSCI 1450 Web Fundamentals/HTML4
Total Semester Credits
Second Semester
CSCI 1531 Objective-C Programming4
CSCI 1541 Java Programming 14
Total Semester Credits
Third Semester
CSCI 2628 Programming iOS Devices4
CSCI 2629 Programming Android Devices4
Total Semester Credits8

Continued on back

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

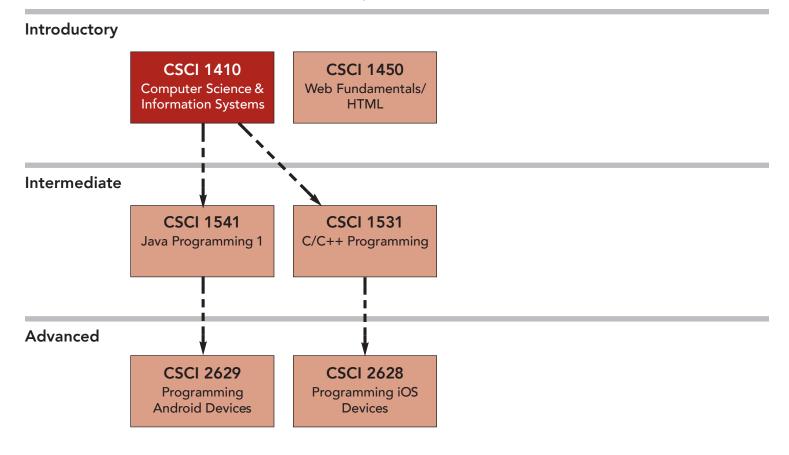
334C (7181)

Information is subject to change. This Program Requirements Guide is not a contract.

2014 - 2015

Mobile Development CERTIFICATE (continued) (24 credits)

The below chart illustrates the courses required for completion of this certificate.



Computer Gaming and Metaverse Development CERTIFICATE

Program Overview

This is a 24 credit certificate program presenting programming for computer gaming and virtual worlds (Metaverse). The certificate includes a foundation course in computer science, a web fundamentals course, and essential programming courses for gaming. It further specializes in graphics programming, Metaverse design and development, and explores the many exciting applications utilizing virtual worlds. This certificate may be completed apart from a degree program or may be selected as an emphasis in the Computer Programming AAS degree.

Career Opportunities

Graduates from the Computer Gaming and Metaverse Development Certificate program will find excellent opportunities in careers such as Animators and Multi-media Artists, video graphics and special effects. Programmers in Computer Gaming and Metaverse Development can find positions in many industries from healthcare to entertainment.

Program Outcomes

- Students will understand the software development lifecycle pertaining to the conceptualization, design, development and deployment of both single and multiplayer computer games
- Students will acquire programming skills which are particular to the gaming environment and the acquire working knowledge of the supporting development tools required to produce them.
- 3. Students will understand the application of the clientserver programming model used in both single and mutliplayer games and the effect of software design decisions on the performance characteristics of the each type of game based on this model.
- Students will acquired an in-depth understanding of the software and hardware infrastructure required to develop, deploy and use the computer games in each environment
- Students will understand the role of "gamification" in mainstream IT, its current status and longer term rates of adoption.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

Darren Pearson darren.pearson@saintpaul.edu

Program Requirements

 \blacksquare Check off when completed

Course

□ CSCI 1410 Computer Science & Information

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended. Not all courses are offered each semester.

First Semester

Cr

Systems
CSCI 1450 Web Fundamentals/HTML4
Total Semester Credits8
Second Semester

CSCI 1541 Java Programming 14
CSCI 2560 Introduction to Computer Games4
Total Semester Credits8
Third Semester
CSCI 2630 Metaverse Application Development 4
CSCI 2632 Metaverse Graphics Programming4
Total Semester Credits

Total Program Credits 24

Continued on back

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 60+ on Reading Comprehension or grade of "C" or better in ENGL 1410

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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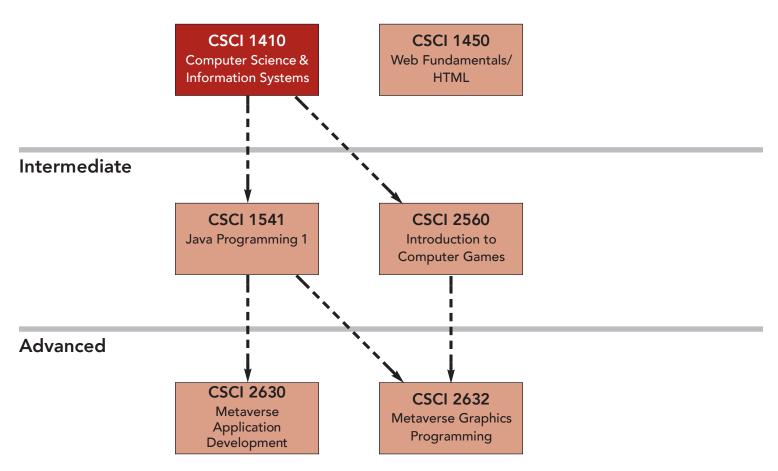


2014 - 2015

Computer Gaming and Metaverse Development CERTIFICATE (continued) (24 credits)

The below chart illustrates the courses required for completion of this certificate.





Liberal Arts Programs & Courses

Liberal Arts Programs

Associate in Arts Degree (60 Credits)
Associate in Arts Degree -
Emphasis in Criminology (60 Credits)
American Sign Language Studies Certificate
(30 Credits)
Also available: Sign Language Interpreter/
Transliterator AAS Degree, page 176

Communications

English	207
Reading	207
English for Speakers of Other Languages (ESOL)	207
Speech	207

Fine Arts/Humanities

Art
Drama & Theatre
Humanities
Music
Philosophy

Global Languages

American Sign Language (ASL)
Chinese
Spanish

Social Science

Anthropology
Economics
Geography
History
Political Science
Psychology
Sociology
Women's and Gender Studies

Associate in Arts DEGREE

Program Overview

The Associate in Arts (AA) degree is awarded for successful completion of 60 semester credits in liberal arts and sciences and is designed to constitute the first two years of a bachelor's degree. The Associate in Arts degree is a liberal arts degree intended primarily for students who plan to transfer to another college or university to complete a bachelor's degree.

No specific major is listed in conjunction with the degree; however, students may choose to concentrate in a particular field of study in preparation for a planned major or professional emphasis at a four-year college or university.

An AA degree must include the entire Minnesota Transfer Curriculum (40 semester credits), which, pursuant to Minnesota statute, must transfer to any institution in the Minnesota State Colleges and Universities system or the University of Minnesota.

Students are to develop an educational plan in consultation with a Saint Paul College Transfer Specialist to assure that degree requirements are fulfilled. Requirements may vary depending upon the major and transfer college.

The AA degree can be completed through a variety of course delivery methods including face to face, hybrid and/or online. A student may choose to complete the entire AA degree online.

Program Outcomes

- Knowledge of the important concepts and principles of the natural sciences, mathematics, history, social and behavioral sciences, arts, and humanities.
- Skills necessary for life roles, including skills in thinking, communication and methods of inquiry and applications of knowledge.
- 3. Critical examination of and an appreciation for diverse people, cultures and life roles.

Program Advisors

Transfer Specialists are the Academic Advisors for the Associate in Arts degree and are located in the Transfer Center, Room 1365, Main Floor.

For assistance or additional information, please call our Transfer Center at 651.846.1739 or email: transfer.center@saintpaul.edu.

Program Requirements

☑ Check off when completed

Course Requirements

Refer to the Minnesota Transfer Curriculum Course List for each of the ten Goal Areas

Cr

- □ Goal 1: Communication9 Minimum of 9 credit, including the following: ENGL 1711 Composition 1 (required) – 4 cr ENGL 1712 Composition 2 (required) – 2 cr SPCH XXXX (required) – 3 cr
- □ Goal 2: Critical Thinking Fulfilled when 10 goal areas (40 credits) are completed
- □ Goal 3: Natural Sciences7 Minimum of two courses from two different disciplines, one of which must be a lab course.
- □ Goal 4: Mathematical/Logical Reasoning3 Minimum of one course. Courses must be numbered between 1700-1799 or 2700-2799.
- □ Goal 5: History and the Social and Behavioral Sciences9 Minimum of three courses from two different disciplines.
- □ Goal 6: Humanities and Fine Arts.....9 Minimum of three courses from two different disciplines.

- MnTC Goal 9: Ethic and Civil Responsibility 3-4 One eligible course.
- □ MnTC Goal 10: People and the Environment ... 3-5 Minimum of one course.

Additional MnTC and/or pre-major electives . . 20

Additional Requirements

- At least 60 earned college-level credits (40 MnTC credits and 20 additional MnTC, pre-major or elective credits)
- A grade of "C" or better in ENGL 1711
- Associate in Arts (AA) cumulative GPA of 2.0
- Minnesota Transfer Curriculum (MnTC) cumulative GPA of 2.0
- Meet Saint Paul College residency requirement: 20 credits. This requirement may be reduced to 12 credits with transfer of at least 12 college-level credits from another Minnesota State College and University or the University of Minnesota.

Minnesota Transfer Curriculum

Students completing the Minnesota Transfer Curriculum (MnTC) must take courses that satisfy the requirements for each of the 10 Goal Areas.

- A minimum of 40 credits is required.
- Credits are counted only once toward the MnTC 40-credit minimum even though a course may be listed in more than one goal area. Courses designated with a superscript satisfy more than one goal area, i.e., BIOL 172010.
- A discipline is a subject, e.g., "Biology," "Chemistry," and "Physics" are three different disciplines.

Check http://www.uselectmn.org to determine whether courses transfer as direct equivalents at the institution you plan to attend.

Using the MnTC Curriculum Guide

The MnTC Curriculum Guide is available online at www.saintpaul.edu/MnTC or you can pick one up in the Transfer Center or in Enrollment Services.

On the guide, pay special attention to the following:

- A (p) listed after the course title indicates that a prerequisite is required before the course can be taken.
- An asterisk (*) after the course number indicates the course contains a lab.

Minimum Program Entry Requirements Students entering this program must meet the following minimum program requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 78+ on Reading Comprehension or grade of "C" or better in ENGL 1415

Arithmetic: Score of 57+ or a grade of "C" or better in Math 0742.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

99A

Information is subject to change. This Program Requirements Guide is not a contract.

Associate in Arts DEGREE Emphasis in Criminology

Program Overview

The Associate in Arts Degree - Emphasis in Criminology provides students the opportunity to study specific types of crime, the theories of crime and punishment, the psychological and social origins of criminal behavior, and social value systems. Students will also examine criminal law and criminal justice systems, penology, rehabilitation, recidivism, social attitudes concerning crime and the justice system, and criminal justice policy.

Career Opportunities

Students who successfully complete the Associate in Arts Degree - Emphasis in Criminology will be prepared to transfer to a baccalaureate program in Criminal Justice. With a degree in criminal justice, you can work in a number of career fields within the justice system such as court administrators, social workers, parole officers, correctional officers and management positions.

Program Outcomes

- Apply knowledge of the important concepts and principles of the natural sciences, mathematics, history, social and behavioral sciences, arts, and humanities.
- Develop skills necessary for life roles, including skills in thinking, communication, and methods of inquiry and applications of knowledge.
- 3. Critically examine and develop an appreciation for diverse people, cultures, and life roles.
- 4. Develop oral and written communication skills to communicate with a wide range of diverse populations.
- 5. Demonstrate an understanding of the fields of criminology and criminal justice and apply criminological theory to contemporary problems and issues.

Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below. For more information please contact a transfer specialist or go to www.saintpaul.edu/Transfer.

Associate in Arts Degree - Emphasis in Criminology

- BA Criminal Justice
 - Metropolitan State University

Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

Kris D'Meier	kris.dmeir@saintpaul.edu
Jolene Sundlie	jolene.sundlie.saintpaul.edu

Program Advisor

Transfer Specialists are the Academic Advisors for the Associate in Arts degree. They are located in the Transfer Center, Room 1365, Main Floor. For assistance or additional information about the specific articulation agreements, please call or email the Transfer Center at 651.846.1739 or transfer@saintpaul.edu

Program Requirements

☑ Check off when completed

Course Cr
 SOCI 1765 Sociology of Crime and Deviance
General Education/MnTC Requirements Cr
Refer to the Minnesota Transfer Curriculum Course List for each Goal Area Goal 1: Communication
Goal 4 : Mathematical/Logical Reasoning3
MATH 1730 College Algebra or higher Goal 5 : History, Social and Behavioral Sciences 9 ECON 1720 Macroeconomics (required) – 3 cr Elective (discipline 2) Elective (course 3)
□ Goal 6: Humanities & Fine Arts9 Elective (discipline 1) Elective (discipline 2) Elective (course 3)
Goal Areas 7-10: Select above courses so that all 10 Goal Areas are met.
□ Goal 1-10 or the MnTC
Elective (discipline 1) – 3 cr Subtotal

Total Program Credits60

Program Start Dates

Fall, Spring, Summer

Course Sequence

Students are allowed to take the courses in any order. However, all course prerequisites need to be followed. For specific suggestions, please speak with a Transfer Specialist or one of the program faculty. Students should consult with the Program Advisor each semester.

Not all courses are offered each semester; a selection of courses is offered summer term.

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 78+ or grade of "C" or better in READ 0722

Writing: Score of 78+ or grade of "C" or better in ENGL 1415

Arithmetic: Score of 57+ or grade of "C" or better in MATH 0742

Assessment Results and Prerequisites:

Students admitted to Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

99AA emphasis Criminology

2014 – 2015

Program Requirements Guide

American Sign Language Studies CERTIFICATE

Program Overview

The American Sign Language Studies Certificate Program provides students with the knowledge and skills of American Sign Language (ASL), focusing on the uniqueness of ASL as a language, Deaf Culture and Deaf History. The program encourages students to become involved in the social and cultural activities of the Deaf Community. The curriculum provides a solid and basic foundation for entry into a career in a deafness-related field and prepares students for continued educational studies in a variety of disciplines. It is a pathway to entering the Sign Language Interpreter/Transliterator Program at Saint Paul College or similar programs at other institutions. Individuals who intend to, or currently work with Deaf and/or Hard-of-Hearing individuals in fields such as education, human/ social services, community service agencies, and vocational rehabilitation benefit from the opportunity to learn and develop stronger skills in American Sign Language.

It is necessary for students in the American Sign Language Studies Program to be able to process visual information.

Career Opportunities

Completion of the American Sign Language Studies Certificate:

- Enhances the ability to work and communicate more effectively with Deaf and Hard-of-Hearing people in academic, agency, and business settings
- Provides opportunities to enhance ASL fluency and acquire Deaf Culture knowledge which is applicable to a variety of educational disciplines
- Prepares students to meet the ASL prerequisites for the Sign Language Interpreter/Transliterator Program
- Enhances American Sign Language fluency for potential or current teachers of Deaf and Hard-of-Hearing students

Program Outcomes

- 1. Graduates will be prepared to meet the ASL prerequisites for the Sign Language Interpreter/Transliterator Program.
- Graduates will develop ASL skills and Deaf Culture awareness to more effectively communicate with Deaf and Hard-of-Hearing people in a variety of settings.
- Graduates will meet world language requirements at the high school and college/ university level.
- Graduates will be prepared to take an American Sign Language Proficiency Interview and to meet K-12 Skill Levels.
- 5. Graduates will meet entrance requirements for undergraduate or graduate programs in ASL Studies, Linguistics, and Deaf Education.

Information is subject to change. This Program Requirements Guide is not a contract.

Program Faculty

Linda Gill linda.gill@saintpaul.edu Patty O'Connell patricia.oconnell@saintpaul.edu

Part-time/Full-time Options

Part-time and full-time options are available.

Sign Language Interpreter/ Transliterator Program

Students planning to enroll in the Sign Language Interpreter/Transliterator Program after completing this certificate program must meet the program standards and complete the <u>Application to Sign Language Interpreter/</u><u>Transliterator AAS Degree Major</u> form to apply for admission.

In the Sign Language Interpreter/Transliterator Program, it is necessary for students to be able to process auditory and visual information.

College Credit by Exam/Test-out

If a student has successfully completed a Saint Paul College Credit by Exam/Test-Out of ASLS 1411 American Sign Language 1 and/or ASLS 1412 American Sign Language 2, then ASLS 1415 American Sign Language 5 is strongly recommended. Students who have not had recent ASL courses (within the past 24 months) at date of application will need to refresh their skills by repeating their last ASL course.

Credits by Exam/Test-Outs are not transferable from other educational institutions.

Program Requirements

☑ Check off when completed

Course Cr	
□ SPCH 1700, 1710, 1720, 1730, OR 1750	
□ ASLS 1414 American Sign Language 4	
 Select 2 credits from following Technical Electives	

Optional Course

Course Sequence on back

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

It is necessary for students in the American Sign Language Studies Program to be able to process visual information.

Reading: Score of 78+ or grade of "C" or better in READ 0722.

Writing: Score of 78+ on Reading Comprehension or grade of "C" or better in ENGL 1415

Arithmetic: If you intend to enroll in the Sign Language Interpreter/Transliterator program, be aware there is a program prerequisite in arithmetic.

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

125C (7060)

2014 - 2015

American Sign Language Studies CERTIFICATE (continued)

Program Start Dates

Fall, Spring, Summer

Course Sequence

The following sequence is recommended; however, it is not required. Not all courses are offered each semester; a selection of courses is offered summer term. Some courses are available day and evening; some courses are available days only.

First Semester

SPCH 1700, 1710, 1720, 1730, OR 1750
Second SemesterASLS 1413 American Sign Language 33ASLS 1414 American Sign Language 43Total Semester Credits
Third Semester ASLS 1420 ASL Linguistics *ASLS 1443 ASL Fingerspelling and Numbers 3 Total Semester Credits
Fourth Semester ASLS 1430 Classifiers .3 *Technical Electives .2 Total Semester Credits .5
ASLS 1435 Deaf Studies/Culture
Total Program Credits

*T------

* Technical electives can be taken in Fall Semester and ASLS 1443 Fingerspelling and Numbers can be taken during Spring Semester.

Liberal Arts Courses

Course delivery methods change on a semester basis. Please check the current course schedule for the most up-to-date information at <u>www.saintpaul.edu/CourseSchedule</u>.

Communications

English

The English and Communications faculty are dedicated to helping students apply the knowledge and skills gained through the study of writing and literature to successfully communicate in work and life roles. Two levels of developmental writing courses are available. The department offers a wide selection of transferable general education courses including Composition 1 and 2 and literature courses including the Survey of American Literature, The English Novel, Native American and African American Literature, an Introduction to Poetry and others. Students planning to transfer to a four-year degree generally enroll in Composition courses and one or two related electives as they fulfill requirements for the Associate in Arts, Associate in Science and Associate in Applied Science degrees.

Course		Cr
ENGL 1410*	Fundamentals of Writing 1	4
ENGL 1415*	Fundamentals of Writing 2	4
ENGL 1711	Composition 1	4
ENGL 1712	Composition 2	2
ENGL 1720	Introduction to Creative Writing	3
ENGL 1725	Introduction to Fiction Writing	3
ENGL 1730	Introduction to Technical Writing	3
ENGL 1780	Recently-Arrived Contemporary	
	Immigrant Literature	3
ENGL 1790	Contemporary Writers of Color	3
ENGL 2721	Survey of American Literature 1	3
ENGL 2722	Survey of American Literature 2	3
ENGL 2725	Survey of British Literature	3
ENGL 2730	Post-Civil War American Novel	3
ENGL 2732	Exploring the Short Story	3
ENGL 2740	Native American Literature	3
ENGL 2750	African American Literature	3
ENGL 2760	English Novel	3
ENGL 2770	Introduction to Poetry	3
ENGL 2775	Science Fiction and Fantasy	3
ENGL 2778	Urban Literature–Lost in the City	3
ENGL 2790	Special Topics in English	1-6

* Does not meet Minnesota Transfer Curriculum (MnTC) Distribution Requirements

Reading

The Reading faculty are dedicated to helping students become proficient and successful readers so they may apply this knowledge to meet the demands of their content-area and program specific reading assignments and their future careers. College reading involves a variety of skills and strategies used together to gain meaning from academic or technical text; it requires critical thinking, draws on background knowledge of a variety of topics, and makes use of a large vocabulary.

Course		Cr
READ 0721	Reading 1	3
READ 0722	Reading 2	3
READ 0723	Accelerated: Reading 1 and 2	6
READ 0725	Vocabulary Development	1
READ 1490	Special Topics in Reading	1-6

English for Speakers of Other Languages (ESOL)

The English for Speakers of Other Languages (ESOL) courses are designed to help non-native speakers of English to enter and succeed in the community and technical college system as well as in the transfer curriculum.

ESOL skills courses focus on speaking and listening, reading and vocabulary, writing and grammar, and pronunciation. In addition, students take an integrated skills course which gives them an opportunity to explore various topics and practice all their language skills together.

Depending on their intended major, students completing the ESOL courses may begin one of the career and technical programs, enroll in general education courses, or take further developmental coursework in English and/or Reading.

Students interested in enrolling in the ESOL courses must take the ESL ACCUPLACER test. This test assesses reading, listening and grammar ability.

Course		Cr
ESOL 0725	High Intermediate Reading & Vocabulary	4
ESOL 0735	High Intermediate Speaking & Listening	4
ESOL 0745	High Intermediate Writing & Grammar	4
ESOL 0750	High Intermediate Integrated Skills	3
ESOL 0825	Advanced Reading & Vocabulary	4
ESOL 0835	Advanced Speaking & Listening	4
ESOL 0845	Advanced Writing & Grammar	4
ESOL 0850	Advanced Integrated Skills	3
ESOL 1490	Special Topics in English for Speakers	
	of Other Languages	1-6
Electives		Cr

ESOL 0820 Pronunciation and Articulation. . 1

Speech

Rhetoric is where the study of Speech Communication began. By definition, rhetoric refers to oratory or persuasive speaking. The Speech faculty promotes the study and application of human communication and mass communication concepts and skills for work and life roles. Students enroll in Speech courses to fulfill Minnesota Transfer Curriculum requirements and graduation requirements.

Course	e		Cr
SPCH	1700	Introduction to Speech Communications	3
SPCH	1710	Fundamentals of Public Speaking	3
SPCH	1720	Interpersonal Communication	3
SPCH	1730	Intercultural Communication	3
SPCH	1740	Mass Media and Communications	3
SPCH	1750	Small Group Communication	3
SPCH	1770	Family Communication	3
SPCH	1780	Gender Communication	3
SPCH	1790	Special Topics in Speech	1-6

Art

Art courses are designed to provide the highest quality coursework for students majoring in art as well as students who are interested in exploring their creative expression through the creation of artwork in a studio class or the study of art in a historical context. Our art coursework provides students with a richer understanding of the world and themselves. The instructors are committed to excellence in teaching and scholarship. The fine arts department offers a large variety of studio and art history coursework that transfers towards a major in art or art history at a four-year institution. Students who plan on majoring in art at a four-year institution should include art history, studio art and humanities coursework in order to be prepared for upper division work in whatever area of art they may choose to pursue. Art and art history classes fulfill requirements for the Minnesota Transfer Curriculum, as well as graduation requirements.

6		6
Course		Cr
ARTS 1710	Fundamentals of Photography 1	3
ARTS 1711	Fundamentals of Photography 2	3
ARTS 1712	Advanced Photography	3
ARTS 1715	Black and White Photography 1	3
ARTS 1716	Black and White Photography 2	3
ARTS 1720	Art Appreciation	3
ARTS 1722	American Animation	3
ARTS 1724	The Design of Everyday Life	3
ARTS 1726	Art in the Cities	3
ARTS 1730	Drawing 1	3
ARTS 1731	Drawing 2	3
ARTS 1732	Two-Dimensional Design	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ARTS 1740	Introduction to Painting	3
ARTS 1742	Intermediate Painting	3
ARTS 1744	Introduction to Watercolor Painting	3
ARTS 1750	Introduction to Ceramics	3
ARTS 1752	Intermediate Ceramics	3
ARTS 1760	World Art	3
ARTS 1770	Art in the Americas	3
ARTS 1780	Beginning Printmaking	3
ARTS 1790	History of Photography	3
ARTS 1795	Special Topics in Art	1-6
ARTS 2710	Advanced Studio Arts	3-4
ARTS 2754	Advanced Ceramics	3

Drama and Theatre

The Drama and Theatre Department course offerings cover both the theoretical and performance aspects of theatre. Students who enroll in Theatre courses fulfill the Minnesota Transfer Curriculum requirements as well as graduation requirements.

Course		Cr
THTR 1710	Introduction to Theatre	3
THTR 1716	Theatre Around the World	3
THTR 1720	Exploring the Theatre Arts	3
THTR 1725	Acting 1	3
THTR 1730	Theater Stagecraft and Production	3
THTR 1740	Fundamentals of Playwriting: Playwriting 1	3
THTR 1790	Special Topics in Drama and Theatre	1-6
THTR 2725	Acting 2	3

Humanities

Humanities courses promote the study of cultural developments. Students gain an increased understanding of the world they live in, how it came to be as it is, and what their place is in it. Students will be asked to consider how they can apply what they have learned about what has come before to what might occur in the future. Humanities is an interdisciplinary subject in that it is an exploration of the influence particular fields have on each other; for example, the influence of political movements on visual art, or the influence of religion on poetry of the same period. The fields included in the Humanities are: art, history, literature, philosophy, religion, politics, law, music, drama and language. Students are encouraged to make comparisons between different fields and different time periods and to consider the significance of similarities and differences. Humanities courses fulfill Minnesota Transfer Curriculum requirements and graduation requirements.

Course		Cr
HUMA 1720	The Ancient & Medieval World	4
HUMA 1730	The Modern World	4
HUMA 1750	Culture and Civilization:	
	Spanish-Speaking Cultures	3
HUMA 1770	The Art of Film	3
HUMA 1780	American Film	3
HUMA 1790	International Film	3
HUMA 1795	Special Topics in Humanities	1-6

Music

The College offers Music courses to fulfill the Minnesota Transfer Curriculum requirements and graduation requirements.

Course		Cr
MUSC 1700	Music Theory and Lab 1	4
MUSC 1705	Music Theory and Lab 2	4
MUSC 1710	Music Theory and Lab 3	4
MUSCv1715	Music Theory and Lab 4	4
MUSC 1720	Fundamentals of Music	3
MUSC 1730	Concert Choir	2
MUSC 1735	Class Piano 1	2
MUSC 1736	Class Piano 2	2
MUSC 1740	Music Appreciation	3
MUSC 1745	History of Rock and Roll	3
MUSC 1750	Jazz History	3
MUSC 1760	American Music	3
MUSC 1765	Music of Latin America and the Caribbean	3
MUSC 1770	Music in World Cultures	3
MUSC 1790	Special Topics in Music	1-6

Philosophy

Philosophy, literally, is the love of wisdom. It is the search for truth and the asking of fundamental questions about our existence and relationship with the world and interaction with others. Philosophy includes the study of arguments, and the providing of evidence and reasons for making particular claims. The practice of philosophy teaches critical thinking and careful reflection; all courses encourage students to formulate pertinent questions and examine and create arguments. It is hoped that students will continue to use careful reasoning skills honed in philosophy classes as they continue in their education and in life. Areas of concentration within philosophy include logic, ethics, religion and the theory of knowledge.

Philosophy is helpful for careers in law, teaching, business, medicine and many other fields. Philosophy courses fulfill a number of requirements for the Minnesota Transfer Curriculum and graduation requirements.

Course		Cr
PHIL 1700	Introduction to Philosophy	3
PHIL 1710	Logic	3
PHIL 1715	Philosophy of Scientific Reasoning	3
PHIL 1720	Ethics	3
PHIL 1722	Health Care Ethics	3
PHIL 1740	World Mythology	3
PHIL 1742	Greek and Roman Mythology	3
PHIL 1750	Eastern Philosophy	3
PHIL 1760	World Religions	3
PHIL 1790	Special Topics in Philosophy	1-6

Global Languages

American Sign Language (ASL)

The American Sign Language (ASL) courses are central to the 30-credit American Sign Language Studies Certificate program which provides students with the knowledge and skills of American Sign Language (ASL), focusing on the uniqueness of ASL as a language, Deaf Culture and Deaf History. If you are interested in the American Sign Language Studies Certificate program, please see the Program Requirements Guide in the Liberal Arts Program section.

Chinese

Chinese language courses are designed to develop a basic competency in Chinese speaking, listening, reading, and writing; an appreciation for cultural diversity; and the application of conversational Chinese to work and life roles. Students with two-years of high school Chinese are generally prepared for beginning courses while students with three to four years of high school Chinese are generally ready to enter intermediate courses. Students who enroll in Chinese courses fulfill the Minnesota Transfer Curriculum requirements as well as graduation requirements.

Course		Cr
CHIN 1710	Beginning Chinese 1	5
CHIN 1720	Beginning Chinese 2	5
CHIN 1790	Special Topics in Chinese	1-6

Spanish

Spanish courses are designed to develop proficiency in Spanish speaking, listening, reading, and writing; an appreciation for cultural diversity; and the application of conversational Spanish to work and life roles. Beginning and Intermediate-level courses are offered. Students with two-years of high school Spanish are generally prepared for beginning courses while students with three to four years of high school Spanish are generally ready to enter intermediate courses. Students who enroll in Spanish courses fulfill the Minnesota Transfer Curriculum requirements as well as graduation requirements.

Course	е		Cr
SPAN	1710	Beginning Spanish 1	5
SPAN	1720	Beginning Spanish 2	5
SPAN	1730	Intermediate Spanish 1	5
SPAN	1740	Intermediate Spanish 2	5
SPAN	1790	Spanish for the Workplace	3
SPAN	1795	Special Topics in Spanish	1-6

Social Science

Anthropology

The Anthropology department offers courses that cover human nature and society in a global context. Students are exposed to the biological and cultural evolution of our species and the cultural worlds past, present and future. Forces which have shaped us and which we continuously shape are discussed within local, national and global perspectives. Students are encouraged to critically assess as well as celebrate the cultural diversity of our world. Anthropology courses fulfill Minnesota Transfer Curriculum requirements and graduation requirements.

Course		Cr
ANTH 171	0 Introduction to Cultural Anthropology	4
ANTH 172	0 Introduction to Physical Anthropology	4
ANTH 173	0 Gender and Culture in Global Perspective	3
ANTH 179	0 Special Topics in Anthropology	1-6

Economics

Economics is a social science that studies how our society can achieve economic goals. These goals are divided into two main areas of macroeconomics and microeconomics. Goals in macroeconomics are full employment, price stability, and economic growth. Macroeconomics uses theoretical tools, historical perspective, and modeling to understand the development and functioning of macroeconomic policy. Macroeconomics explores how policy advocated by economists and political advisors is implemented and with what degrees of success. Microeconomics analyzes the economic decisions made by individual firms, organizations, and people. Microeconomic goals are maximizing individual and societies benefits using limited resources. Microeconomics uses modeling to understand how and why our resource markets work and provides insights into policies that make them more efficient. Studying economics helps students in many fields by providing a framework on which to analyze changes that are affecting our collective future.

Course			Cr
ECON	1710	Introduction to the American Economy	3
ECON	1720	Macroeconomics	3
ECON	1730	Microeconomics	3
ECON	1790	Special Topics in Economics	1-6

Geography

Geography studies places and human activities across the earth. Geographers often ask where? and why? The field focuses on the distribution and changes in the location of ethnicities, resources, transportation, land use, industries, climate, physical land formations, etc. Many geography courses have both physical environment and human/cultural components. The geography faculty often have a global and interdisciplinary approach. Geography courses fulfill a number of requirements for the Minnesota Transfer Curriculum, Education majors, Social Science disciplines, and international careers. Special topics and field study courses are added occasionally.

Course		Cr
GEOG 1700	Physical Geography	3
GEOG 1720	Human/Cultural Geography	3
GEOG 1740	World Geography	3
GEOG 1750	Minnesota Geography	3
GEOG 1790	Special Topics in Geography	1-6

History

The History department promotes the study, teaching and analysis of historical developments which have created our present world. The historical past is studied so that students can better fulfill their work and life roles. The department offers survey courses in American history and the history of world civilizations; however, students are not required to take these survey courses in chronological order. Students who plan to major in History at a four-year institution are encouraged to take both the American and world history survey courses in order to be well-prepared for upper division coursework. History courses fulfill a number of requirements for the Minnesota Transfer Curriculum, as well as graduation requirements.

Course		Cr
HIST 1730	Contemporary World History	3
HIST 1745	U.S. History to 1865	4
HIST 1746	U.S. History Since 1865	4
HIST 1750	Minnesota History	3
HIST 1760	History of World Civilizations to 1500	3
HIST 1761	History of World Civilizations since 1500	3
HIST 1770	History of Women in the United States	3
HIST 2740	Immigration and Ethnic History of the	
	United States	3
HIST 2780	Special Topics in History	1-6
HIST 2790	Historical Methods	2

Political Science

Political science is one of the most popular undergraduate majors preparing students for a wide variety of careers. It is also one of the most popular majors for those planning to attend law school. The political science faculty seeks to prepare students for advanced study by providing introductions to major areas of the discipline. Additionally, the faculty aims to prepare students for active and thoughtful citizenship.

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Course		Cr
POLS 1720	Introduction to American Government	3
POLS 1740	Introduction to World Politics	3
POLS 1750	Introduction to Political Science	3
POLS 1760	Introduction to Political Philosophy	3
POLS 1790	Special Topics in Political Science	1-6

Psychology

Psychology is the scientific inquiry into human behavior and mental processes explaining the complexity of issues from both an environmental and biological perspective. Courses are offered that provide a foundation in core psychological areas. Students enroll in psychology to obtain a better understanding of human behavior in a variety of settings as well as for relevant preparation for nursing, business and other fields. Psychology courses fulfill the Minnesota Transfer Curriculum requirements and graduation requirements.

Course		Cr
PSYC 1710	General Psychology	4
PSYC 1720	Psychology throughout the Lifespan	3
PSYC 1740	Abnormal Psychology	4
PSYC 1750	Introduction to Health Psychology	3
PSYC 1760	Social Psychology	4
PSYC 1790	Special Topics in Psychology	1-6

Sociology

The Sociology faculty strive to promote social awareness, active citizenship and critical thinking within and beyond our own culture. Courses are designed to emphasize the importance of the sociological perspective in work and life roles in a global world. Many students take sociology courses to develop personal skills and to learn about other cultures and societies. Students enroll in sociology courses to fulfill Minnesota Transfer Curriculum requirements and graduation requirements.

Course		Cr
SOCI 1710	Introduction to Sociology	4
SOCI 1720	Social Problems	3
SOCI 1730	Sociology of Families and Relationships	3
SOCI 1740	Sociology of Work	3
SOCI 1760	Mass Media and Society	4
SOCI 1765	Sociology of Crime and Deviance	3
SOCI 1766	Juvenile Delinquency	3
SOCI 1772	Introduction to Criminal Justice	3
SOCI 1774	Introduction to Corrections	3
SOCI 1776	Probation, Parole and Alternative Sentencing	3
SOCI 1780	Social Psychology	4
SOCI 1790	Special Topics in Sociology	1-6

Women's and Gender Studies

The Women's and Gender Studies course and related coursework emphasizes collaborative learning across academic disciplines with a focus on women and gender relationships. Several courses in the Liberal Arts and Sciences include an emphasis on gender analysis that links the content. Students are encouraged to contact the transfer specialists for information on four-year colleges and universities that offer a major or minor in Women's and Gender Studies. Students enroll in Women's and Gender Studies and related courses to fulfill Minnesota Transfer Curriculum requirements as well as graduation requirements.

Course		Cr
WGST 1785	Foundations in Women's Studies	3
WGST 1790	Special Topics in Women's and Gender Studie	es 1-6
Related course	es across the disciplines:	
ANTH 1730	Gender and Culture in Global Perspective	3
BIOL 1785	Biology of Men and Women	3
HIST 1770	History of Women in the United States	3
SOCI 1730	Sociology of Families and Relationships	3
SPCH 1780	Gender Communication	3

Course Descriptions

Course descriptions are alphabetized by program area:

Accounting
American Sign Language
Anthropology
Art
Auto Body
Automotive Service
Biochemistry
Biology
Business
Business Technology
Cabinetmaking
Carpentry
Center for Manufacturing and
Applied Engineering
Chemistry
Child Development
Chinese Language
CNC Technology
College & Career Planning
Success Strategies
Computer Science
Cosmetology, Nail Care and Esthetician
Core Courses
Culinary Arts
Digital Graphics and Interactive Multimedia233
Economics
Education
Electrical Maintenance
Electrical Technology236
Electromechanics
Engineering (Pre)
English
English for Speakers of Other Languages (ESOL) 240
Geography
Global Trade
2.221
Health
Health Unit Coordinator

History
Hospitality Management
Human Resources
Humanities
Individualized Studies
Interpreter/Transliterator Sign Language
Massage Therapy
Mathematics
Medical Laboratory Technician
Medical Office
Music
Natural Sciences
Nursing Assistant/Home Health Aide
Personal Trainer
Pharmacy Technology
Philosophy
Phlebotomy
Physics
Pipefitting
Plumbing
Political Science
Practical Nursing
Psychology
Reading
Related Welding
Respiratory Therapist
Sheet Metal
Sociology
Spanish
Speech
Supply Chain Logistics
Theatre and Drama
Truck Technician
Welding Technology
Women's and Gender Studies

Course descriptions are subject to change.

The most current course descriptions are available online at: www.saintpaul.edu/CourseSchedule.

Course Descriptions

The following course descriptions are alphabetized by academic program area. Each course description includes a course number and title, description of the course, a listing of any required prerequisites and the number of credits. The credit listing includes the lecture, lab and/or on-the-job breakdown. For example, 4C/3/1/0 shows that the course is 4 credits with 3 credits of lecture, 1 credit of lab and 0 credits of on-the-job training. Minnesota Transfer Goals are indicated by (MnTC: Goal(s) "goal number").

Accounting

ACCT 1411 Principles of Accounting 1

Introduces students to the fundamental accounting concepts and principles used to analyze and record business transactions. Topics include transaction analysis, double-entry accounting, internal controls, cash transactions, purchases and payables cycle, sales and receivables cycle, specialized journals, payroll processes, inventory valuations, year-end procedures and financial statement preparation. Examples are drawn from service and merchandising organizations. 4C/4/0/0

ACCT 1412 Principles of Accounting 2

An introduction to principles of accounting for the partnership entity, the corporate entity and additional topics in financial accounting. Additional topics include long term liabilities, investments, managerial accounting concepts and financial statement analysis. Emphasis will be placed on the uses of accounting information in decision-making by internal and external users. (Prerequisite(s): ACCT 1411) 4C/4/0/0

ACCT 1511 Federal Taxation 1

Introduces students to the basic issues and concepts of taxation principles. Students observe federal tax laws as applied to the preparation of the Form 1040 and related schedules. Tax preparation software is utilized for case projects. (Prerequisite(s): ACCT 1411) 4C/4/0/0

ACCT 1512 Federal Taxation 2

Introduces students to the fundamentals of tax law regarding business federal income taxation. Planning issues of estates and gift taxation are part of this course. Tax preparation software is utilized for case projects. (Prerequisite(s): ACCT 1511) 4C/4/0/0

ACCT 1521 Accounting Computer Applications

Designed to combine the theory of financial accounting principles with accounting software applications. The course will cover the basic design of accounting software and students will develop an analytical understanding of its properties. Special emphasis will be placed on applying the theory of accounting to the practice of using an accounting software package. (Prerequisite(s): ACCT 1412) 4C/4/0/0

ACCT 2411 Intermediate Accounting

Intermediate Accounting Covers financial reporting using generally accepted accounting principles and concepts relating to income determination, revenue recognition and asset valuation. (Prerequisite(s): ACCT 1412) 4C/4/0/0

ACCT 2420 Managerial Accounting

Introduces students to costing concepts and methods of analysis. Students analyze the management decision-making process via problem solving and case analysis. Projects include non-profit and profit entities. (Prerequisite(s): ACCT 1412) 4C/4/0/0

ACCT 2530 Fundamentals of Non-profit Accounting

This course addresses the entity which is not concerned with a profit objective. About one-third of entities in the United States are non-profit. The course covers objectives and principles of reporting for the non-profit entity. (Prerequisite(s): ACCT 1412) 4C/4/0/0

ACCT 2540 Financial Modeling for Spreadsheets

Designed to unify financial accounting theory with financial functions and formulas. This course covers elements of financial modeling with the time value of money. Present value and future value concepts are defined and utilized in this course. (Prerequisite(s): ACCT 1411) 4C/4/0/0

ACCT 2591 Accounting Internship

A cooperative work-student program between Saint Paul College Accounting Program and a business facility to allow the student an employment-like experience. (Prerequisite(s): Instructor approval) Variable credits 2-8

American Sign Language

ASLS 1411 American Sign Language 1

Introduction to American Sign Language (ASL), a visual/gestural language used by the Deaf Community. Course covers sign vocabulary, sentence structures, dialogue formats through facial expressions and body movements used in signing. 3C/3/0/0

ASLS 1412 American Sign Language 2

A continuation of ASLS 1411, designed to expand students' conversational range from talking about themselves to talking about other people and activities, giving directions, describing people and making requests. (Prerequisite(s): ASLS 1411 with a grade of "C" or better) 3C/3/0/0

ASLS 1413 American Sign Language 3

A continuation of ASLS 1412, designed to expand students' comprehension and sign language production skills. Through meaningful communication contexts, students will use communicative functions which include locating things, asking for solutions, discussing life events and describing objects. Use of appropriate cultural behaviors and strategies for conversational management is stressed. Receptive and expressive fingerspelling and information about the deaf community will further enhance the learning process. (Prerequisite(s): ASLS 1412 with a grade of "C" or better) (MnTC: Goal 8) 3C/3/0/0

ASLS 1414 American Sign Language 4

A continuation of ASLS 1413 provides more complex ASL grammatical features, communicative functions and receptive fingerspelling and numbers. Cultural features will be stressed to develop competency and fluency in the language. (Prerequisite(s): ASLS 1413 with a grade of "C" or better) (MnTC: Goal 8) 3C/3/0/0

ASLS 1415 American Sign Language 5

This course is an ongoing instruction of American Sign Language covering communicative functions, sign vocabulary, fingerspelling, grammar and cultural aspects of the Deaf Community. At the completion of ASL 5, each student shall be able to use these language functions and conversational behaviors appropriately in ASL. (Prerequisite(s): ASLS 1414 with a grade of "C" or better) 3C/3/0/0

ASLS 1420 ASL Linguistics

Introduces students to the linguistics of American Sign Language (ASL). Students study the major features of language structures and the underlying knowledge for the social uses of American Sign Language. Content includes an examination of the structure of the physical signals of ASL, the customary patterns for combining them and the influence of signs on one another in connected discourse. (Prerequisite(s): ASLS 1414 with a grade of "C" or better) 4C/4/0/0

ASLS 1430 Classifiers

Introduces students to the fundamentals of American Sign Language (ASL) classifiers. Students will enhance and expand the use of classifiers in their expressive skills and the recognition of classifiers in their receptive skills. (Prerequisite(s): ASLS 1420 with a grade of "C" or better) 3C/3/0/0

ASLS 1435 Deaf Studies/Culture

This course is designed to help students understand and appreciate Deaf Culture and the Deaf Community. Deaf history, historical and modern-day perspectives, deafness and its impact, Deaf Culture/ Community characteristics, education, communication modes/ languages used by deaf people and the ramifications and impact of American Sign Language and Deaf Culture upon the lives of D/deaf people and other populations will be introduced. (MnTC: Goal 7) 3C/3/0/0

ASLS 1443 ASL Fingerspelling and Numbers

This course introduces the students to the fundamentals of fingerspelling/lexicalized fingerspelling and the complex rules and patterns of ASL numbers systems. This course develops expressive and receptive fingerspelling and number skills. Receptive skills focus on whole-word recognition, distinction among different number systems, phrase recognition, and identifying fingerspelled words and numbers in context. Expressive skills focus on the development of speed, clarity, and fluency. (Prerequisite(s): ASLS 1414 American Sign Language 4 with a grade of "C" or better.) 3C/3/0/0

ASLS 1446 ASL Non-Manual Markers

This course covers the non-manual aspect of the language. The use of the face, eyes and head to convey grammatical information will be covered. Students will analyze specific features. Other topics include ASL 'mouthing', showing emotion and inappropriate facial behaviors. (Prerequisite(s): ASLS 1420 with grade of "C" or better) 2C/2/0/0

ASLS 1448 American Sign Language Semantics

This course is designed to expand students' sign vocabulary by analyzing multiple-meaning words and various sign equivalents. Language learning activities will focus on nouns-verbs, sentence types, classifiers, inflection of verbs with temporal aspect and distributional aspect. (Prerequisite(s): ASLS 1414 with grade of "C" or better) 2C/2/0/0

ASLS 1469 Deaf Heritage of Minnesota

Covers the history of deaf people in Minnesota and its impact upon deaf and non-deaf Minnesotans. (Prerequisite(s): ASLS 1420 with a grade of "C" or better or instructor approval) 2C/2/0/0

ASLS 1497 Special Topics in ASL

A variable credit granting course that focuses on special topics in the area of American Sign Language and Deaf Culture. Courses are designed to accommodate the learning needs and interests of students. Each course syllabus focuses on specific content areas which may not be presented or are presented in-depth in other ASLS courses. Variable credits 1-5

Anthropology

ANTH 1710 Introduction to Cultural Anthropology

This course introduces students to the concept of culture, anthropological methods and theories, and the unity and diversity of the human species. Culture is the means by which human beings adapt to their environment, structure their societies, and give meaning to life. The course surveys the similarities and differences of the complex whole of human culture, including: subsistence strategies; economics; marriage, family and kinship; gender; political organization; inequality; religion; colonialism; and globalization. There is a focus on current issues and problems, and their relationship to societal and global matters. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 7) 4C/4/0/0

ANTH 1720 Introduction to Physical Anthropology

This course examines human biological evolution and variation from the perspective of morphological and cultural adaptation. Discussion addresses the basis of human biology, including genetics, physiology, population dynamics, and adaptive mechanisms. Primates and human ancestors are explored as a comparative model of contemporary human behavior and social organization. The frameworks and arguments of fossil and archaeological evidence are investigated. Modern human biological diversity and adaptations are analyzed, with attention to disease environments and misconceptions of "race." (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 10) 4C/4/0/0

ANTH 1730 Gender and Culture in Global Perspective

This course examines how sex, gender, and sexuality are culturally constructed through social structures, and how these influence the biological distinctions of male, female, and intersex individuals. Through a comparative approach, we will survey gender roles, values, and relative rank in various socioeconomic levels, including huntergatherer, horticultural, pastoral, agricultural, and industrial. Other material to explore will include the intersection between gender, race, class, and sexuality; the origins and consequences of patriarchy; the impact of the global economy on gender identities and self-perceptions; gender, politics, and social change; and the status of women and men in different kinship systems and families, and the power that accrues to them. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 8) 3C/3/0/0

ANTH 1790 Special Topics in Anthropology

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score.) (MnTC: Goal 5) Variable credits 1-6

Art

ARTS 1710 Fundamentals of Photography 1

This course is an introduction to the basic tools and techniques used in black and white photography, as well as the development of conceptual and aesthetic issues in the field. Technical areas include camera use, metering, aperture, shutter speed controls, film and optics. In addition, the course will address creative uses of photography in its depiction of light and shadow, elements of time, motion, space, portraiture, and personal exploration and metaphor. Students will develop a vocabulary for personal expression by combining the technical and conceptual issues into a final photographic portfolio. A \$200 camera deposit will be collected from students who need to borrow a film camera. The deposit will be refunded at the end of the semester provided the camera is returned undamaged and in working condition. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 6) 3C/3/0/0

ARTS 1711 Fundamentals of Photography 2

Fundamentals of Photography 2 builds on the foundational skills developed in ARTS 1710. Fundamentals of Photography 1. We continue to explore composition, lighting, visual design, exposure and camera fundamentals. Students are introduced to digital photography to further enhance the capability of personal expression available in the photographic medium. The class explores scanning, digital SLR cameras, creating contact sheets, managing digital work flow and presentation. Students develop the skills necessary to produce a highquality photographic portfolio. A \$200 camera deposit will be collected from students who need to borrow a film camera. The deposit will be refunded at the end of the semester provided the camera is returned undamaged and in working condition. (Prerequisite(s): ARTS 1710 Fundamentals of Photography 1 with a grade of "C" or better) (MnTC: Goal 6) 3C/3/0/0

ARTS 1712 Advanced Photography

Students in advanced photography complement their technical expertise with enhanced conceptual skills learned in ARTS 1715 and 1716. This class allows students to continue their exploration of personal expression, recognize their own creative style, and set goals to achieve their artistic intentions. We will discuss professional presentation of artwork, explore professional practices in photography, experiment with photographic techniques, and produce a high-quality photographic portfolio. Students in Advanced Photography are encouraged to participate in a Service Learning project, as a collaborative and community building exercise, with the potential of introducing students to industry connections within the visual arts field. A \$200 camera deposit will be collected from students who need to borrow a film camera. The deposit will be refunded at the end of the semester provided the camera is returned undamaged and in working condition. (Prerequisite(s): ARTS 1711 or ARTS 1716 with a grade of "C" or better) (MnTC: Goal 6) 3C/3/0/0

ARTS 1715 Black and White Photography 1

This course is an introduction to the techniques used in the darkroom for black and white photography. I will introduce the film SLR camera and compliment that knowledge with additional techniques for self-expression in the darkroom. This course covers technical areas including camera use, metering, aperture, shutter speed, film processing, print processing and presentation of photographs. We will explore creative uses of photography to depict meaning, light and shadow, elements of time, motion, space, composition, portraiture, personal exploration, and metaphor. The first two classes will be at Saint Paul College but subsequent classes will be held at the Center for Media Arts (2400 University Ave West, Suite 100), NOT at Saint Paul College. A \$200 camera deposit will be collected from students who need to borrow a film camera. The deposit will be refunded at the end of the semester provided the camera is returned undamaged and in working condition. (MnTC: Goal 6) 3C/3/0/0

ARTS 1716 Black and White Photography 2

This course is a continuation of discovering techniques used in the darkroom for black and white photography. We will utilize the skills learned in Black and White Photography 1 (ARTS 1715) and compliment that knowledge with more advanced techniques for selfexpression in the medium. This course covers technical areas including camera use, metering, aperture, shutter speed, film meaning, and professional presentation of photographs. We will explore creative uses of photography to depict meaning, light and shadow, elements of time, motion, space, composition, portraiture, personal exploration, and metaphor. The semester will culminate with a capstone project, or portfolio of images, based on one topic or issue. The first two classes will be at Saint Paul College but subsequent classes will be held at the Center for Media Arts (2400 University Ave West, Suite 100), NOT at Saint Paul College. A \$200 camera deposit will be collected from students who need to borrow a film camera. The deposit will be refunded at the end of the semester provided the camera is returned

undamaged and in working condition. (Prerequisite(s): ARTS 1715 Black and White Photography 1 with a grade of "C" or better) (MnTC: Goal 6) 3C/3/0/0

ARTS 1720 Art Appreciation

This is an introductory "learning to look" course with the objective of developing students' ability to see, understand and enjoy the visual arts. Examples of painting, sculpture and architecture from around the world, many of which will already be familiar to students, will be viewed, discussed and analyzed in class. Students will also learn about the materials and processes of art making. We will then go out and take a look at the real thing by visiting the Minneapolis Institute of Arts and the Walker Art Center. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 6 & 8) 3C/3/0/0

ARTS 1722 American Animation

This course looks at animation as an art form and cultural product. We will consider animation within the contexts of American popular culture, media history, and socio-political history. We will explore technical and aesthetic advancements from the early animation devices of the nineteenth century to the current and emerging digital technologies of today. Our studies will take us through the classic cartoons of Winsor McCay, Max Fleischer, The Walt Disney Company, and Warner Bros. to the latest creations of Pixar and South Park Studios. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 7) 3C/3/0/0

ARTS 1724 The Design of Everyday Life

Design is a powerful cultural force that surrounds us wherever we go. This course provides students with the basic historical and analytical tools to understand the impact of design on our day-today lives, objects, communication materials, and environments. Lessons will cover the main movements, trends and issues in design, from the end of the nineteenth century through today, with particular emphasis on consumer cultures and the interconnections between design and technology. Visual examples will range from furniture to advertisements, industrial design to digital media. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 7) 3C/3/0/0

ARTS 1726 Art in the Cities

This course takes an experiential approach to learning about the visual arts. Through visits to museums, galleries, studios, and historic sites, students will become familiar with some of the cultural resources available in Minneapolis and Saint Paul. We will study art representing various media, artistic philosophies, historical contexts, and the multiculturalism of the Twin Cities. Weekly readings, papers, and a final project emphasize the development of critical thinking, visual analysis, and writing skills. Students will be responsible for their own transportation. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 7) 3C/3/0/0

ARTS 1730 Drawing 1

This course will focus on techniques and strategies for improving observational drawing abilities. Through hands-on drawing exercises, students will learn to depict the world around them and the human form with greater accuracy. (MnTC: Goal 6) 3C/2/1/0

ARTS 1731 Drawing 2

This course continues the development of skills and techniques learned in Drawing 1. This course emphasizes observing relationships, line and value to enhance experimental and personal expression; introduces techniques for drawing in color, incorporates figure drawing, and includes the study of influential artists throughout the history of art, concentrating on contemporary means of expression. Students design art projects and complete a portfolio. (Prerequisite(s): ARTS 1730 Drawing 1 with a grade of "C" or better) (MnTC: Goal 6) 3C/2/1/0

ARTS 1732 Two-Dimensional Design

This course is a foundational study of the principles of two-dimensional design for an understanding of its nature and expressive possibilities, with the opportunity to develop a creative approach in working with its elements. This course will study basic approaches to understanding Notan, the elements of design and the principles of design through personal investigation. (MnTC: Goal 6) 3C/2/1/0

ARTS 1740 Introduction to Painting

This course will introduce students to the materials and techniques of oil painting. Assignments will be geared towards improving one's ability to paint from direct observation, depicting the natural world and the human form with greater accuracy, and integrating "color theory" into oil paintings. (MnTC: Goal 6) 3C/3/0/0

ARTS 1742 Intermediate Painting

This course will incorporate and further develop skills and techniques learned in Introduction to Painting, but will be more independent in nature. Each student will write a proposal for a cohesive body of work to be completed over the course of the semester, and will work towards developing a personal "style" of painting. Through a series of in-class group critiques, students will learn to analyze and critique works of art. (Prerequisite(s): ARTS 1740 Introduction to Painting with a grade of "C" or better) (MnTC: Goal 6) 3C/3/0/0

ARTS 1744 Introduction to Watercolor Painting

This course will introduce students to the practice of watercolor painting. Students will become familiar with the materials and terminology of the medium. They will learn to synthesize a variety of painting techniques into watercolor paintings of varying genres and styles. Students will develop an understanding of color theory, as it applies to watercolor painting, and will come to understand historical and contemporary issues pertaining to the medium. (MnTC: Goal 6) 3C/3/0/0

ARTS 1750 Introduction to Ceramics

This hands-on studio arts course will introduce students to the fundamentals of Ceramic Art. The primary emphasis will be the creation of functional ceramic pottery. Students will learn to make hand-built pottery and learn to "throw" pots on the pottery wheel. In addition to this, students will learn about trimming, glazing, kiln firing, and a variety of decorative techniques. (MnTC: Goal 6) 3C/3/0/0

ARTS 1752 Intermediate Ceramics

This hands-on studio arts course will continue to introduce students to the fundamentals of Ceramic Art. The course will also introduce contemporary practices in ceramic arts and investigate sculptural aspects of the medium. Half of the semester will include advanced wheel techniques and a continued concentration on throwing functional pots. In addition to this, students will continue learning about trimming, glazing, kiln firing, and become more proficient in decorative techniques. (Prerequisite(s): ARTS 1750 Introduction to Ceramics with a grade of "C" or better) (MnTC: Goal 6) 3C/3/0/0

ARTS 1760 World Art

What would you see if you suddenly found yourself in China, Nigeria, India or Mexico? How would the world look to you? For many of us, it would probably look very strange. One of the many ways to make our world familiar to us, whether we travel or not, is to try to understand a culture's visual expression in architecture, sculpture, painting and other media. This class will view slides of artwork in a lecture/discussion format. We will then visit the Minneapolis Institute of Arts, twice, where we will be able to immerse ourselves in the cultures studied by examining the original artworks produced by these cultures. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 8) 3C/3/0/0

ARTS 1770 Art in the Americas

This course is an introduction to the artistic productions of the United States, Central America, and South America. Art in the Americas is united by common historical events. We will explore patterns of cultural interchange from the Pre- Columbian period to the present with particular emphasis on colonialism, revolution, and the search for national identities. We will also examine the impact of current hemispheric politics on American art. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 6) 3C/3/0/0

ARTS 1780 Beginning Printmaking

For centuries artists have used printmaking processes to create beautiful images on paper. This course is an introduction to the fundamentals of fine art printmaking. Students will be instructed in the following printmaking areas: monotype, relief, intaglio, and polymer photogravure. In-class projects will focus on hands-on learning and experimentation as students' progress toward assembling a fine art print folio of their work. (MnTC: Goal 6) 3C/3/0/0

ARTS 1790 History of Photography

This survey course will focus on the art of still photography from the 19th century to the present. There is an emphasis on the work of artists, their processes, and the accompanying aesthetic movements occurring between the announcement of the Daguerreotype in 1839 and the beginning of the twenty-first century. As witnesses of popular culture, students will examine the interaction of photography with other visual art forms. The photographic print, as a means of artistic expression, will be discussed, including historic, social, and artistic movements. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 6) 3C/3/0/0

ARTS 1795 Special Topics in Art

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goal 6) Variable credits 1-6

ARTS 2710 Advanced Studio Arts

In the Advanced Studio Arts course students will build upon what they learned in Drawing 1, Introduction to Painting, or Fundamentals of Photography courses. The course will be independent in nature with students focused on developing their own personal artistic "style" in either drawing, painting or photography. Students will propose an idea for a body of work and will spend the semester creating a cohesive portfolio of images and writing an artist's statement. The semester will culminate with a public exhibition of student work. (MnTC: Goal 6) Variable credits 3-4

ARTS 2754 Advanced Ceramics

This hands-on studio arts course will build on the proficiency that students have achieved in Introductory and Intermediate Ceramics. The Advanced Ceramics course will require a familiarity with the wheel and hand-building techniques with an emphasis placed on a semester-long ceramics project resulting in a sculptural, conceptual, or functional body of ceramic art work. The course will also expand on contemporary practices in ceramic arts and further investigate sculptural aspects of the medium. Students will become familiar with local ceramics artists and the greater Twin Cities ceramics community. (Prerequisite(s): ARTS 1752 Intermediate Ceramics with a grade of "C" or better) (MnTC: Goal 6) 3C/3/0/0

ABDY 1400 Introduction to Auto Body Repair

Personal safety, tool use and maintenance and basic body shop procedures are covered. (Prerequisite(s): Enrollment in Auto Body Program; Co-Requisite(s): ABDY 1410, 1420, 1430, 1440, 1450) 3C/1/2/0

ABDY 1410 Auto Body Sheet Metal Repair

Covers basic sheet metal repair on automobiles, and tools and equipment used in the repair process. (Prerequisite(s): Enrollment in Auto Body Program; Co-Requisite(s): ABDY 1400, 1420, 1430, 1440, 1450) 3C/1/2/0

ABDY 1420 Auto Body Repair Techniques

Covers the use of basic hand and power tools and preparation of an auto before painting. (Prerequisite(s): Enrollment in Auto Body Program; Co-Requisite(s): ABDY 1400, 1410, 1430, 1440, 1450) 3C/1/2/0

ABDY 1430 Introduction to Paint Prep

Focuses on refinishing safety, preparation, tools and equipment used in the application of materials. (Prerequisite(s): Enrollment in Auto Body Program; Co-Requisite(s): ABDY 1400, 1410, 1420, 1440, 1450) 4C/0/4/0

ABDY 1440 Advanced Body & Frame Repair Theory

Topics include advanced body and frame theory, use of frame rack and safe use of power equipment as it applies to major collision damage. (Prerequisite(s): Enrollment in Auto Body Program; Co-Requisite(s): ABDY 1400, 1410, 1420, 1430, 1450) 2C/1/1/0

ABDY 1450 Collision Repair, Estimating & Shop

Management The focus of this course will be identification and calculation of vehicle damage from a collision. (Prerequisite(s): Enrollment in Auto Body Program; Co-Requisite(s): ABDY 1400, 1410, 1420, 1430, 1440) 2C/1/1/0

ABDY 1460 Auto Body Open Lab

Flexible lab hours are available for various auto body repair projects. One to four credits as elective for ABDY 1550 General Auto Body Detailing. (Prerequisite(s): Enrollment in Auto Body Program) 4C/4/0/0

ABDY 1510 Advanced Body & Frame Repair

Covers the repair of major collision damage. The course will focus on using measuring and strengthening equipment. (Prerequisite(s): ABDY 1450 and enrollment in Auto Body Program; Co-Requisite(s): ABDY 1520, 1530, 1540, 1550) 3C/1/2/0

ABDY 1520 Paint & Color Matching Techniques

Emphasizes overall refinishing, including color matching and all types of paint problems. (Prerequisite(s): Enrollment in Auto Body Program; Co-Requisite(s): ABDY 1510, 1530, 1540, 1550) 4C/2/2/0

ABDY 1530 Paint Finish & Detailing

Covers automotive finishes and how to detail them. (Prerequisite(s): Enrollment in Auto Body Program; Co-Requisite(s): ABDY 1510, 1520, 1540, 1550) 4C/2/2/0

ABDY 1540 Auto Body Specialization Finishes

Application of special automotive finishes used on today's automobile is emphasized in this course. (Prerequisite(s): Enrollment in Auto Body Program; Co-Requisite(s): ABDY 1510, 1520, 1530, 1550) 4C/2/2/0

ABDY 1550 General Auto Body Detailing

Detailing of automobiles after they leave the paint shop is the focus of this course. (Prerequisite(s): Enrollment in Auto Body Program; Co-Requisite(s): ABDY 1510, 1520, 1530, 1540) 4C/2/2/0

ABDY 1560 Alignment & Brakes for Auto Body

Covers alignment and brakes, how that applies to auto body collision damage and how repairs are made. (Prerequisite(s): Enrollment in Auto Body Program; Co-Requisite(s): ABDY 1570, 1581, 1582) 2C/1/1/0

ABDY 1570 Air Conditioning & Auto Electric for Auto Body

Covers the repair of air conditioning and electrical components as it applies to auto collision damage. (Prerequisite(s): Enrollment in Auto Body Program; Co-Requisite(s): ABDY 1560, 1581, 1582) 3C/1/2/0

ABDY 1581 Welding—Auto Body 1

Covers welding equipment used in auto body repair and its safe and correct use. (Prerequisite(s): Enrollment in Auto Body Program; Co-Requisite(s): ABDY 1560, 1570, 1582) 2C/1/1/0

ABDY 1582 Welding—Auto Body 2

Emphasizes the types of welding used on automobiles and basic welding joints. (Prerequisite(s): Enrollment in Auto Body Program; Co-Requisite(s): ABDY 1560, 1570, 1581) 3C/1/2/0

Automotive Service

AUTO 1410 Trade Knowledge

Covers the examination and use of safety equipment in an automotive shop. Communication skills, general knowledge of the trade and procedures used in operating an automotive shop are also covered. (Prerequisite(s): Admission to the Auto Service Program) 3C/1/2/0

AUTO 1420 General Auto Service

Covers correct procedures for servicing vehicles, shop safety and the use of service manuals and bulletins. Automotive tools and equipment and minor service will be emphasized. (Prerequisite(s): AUTO 1410) 3C/1/2/0

AUTO 1430 Brakes

Covers the basic principles of the brake system. Emphasis will be placed on operation, diagnosis and repair of common types of braking systems. (Prerequisite(s): AUTO 1410) 4C1/3/0

AUTO 1440 Alignment & Suspension

Covers the study of suspension and steering systems. The student will inspect, repair and adjust the suspension and steering systems on today's cars and light trucks. (Prerequisite(s): AUTO 1430) 5C/1/4/0

AUTO 1510 Clutch/Driveline Manual Transmission

Standard automotive and light truck clutches are covered. Content includes design, adjustment, overhaul, diagnosis and repair on mechanical and hydraulic clutch systems. This course also covers operation and proper repair procedures of current manual transmissions used in late model vehicles. (Prerequisite(s): AUTO 1430) 3C/1/2/0

AUTO 1522 Four Wheel Drive Differential

Emphasizes the operation and proper repair procedures of current transfer cases, hubs and differentials in four wheel drive vehicles. (Prerequisite(s): AUTO 1510) 4C/2/2/0

AUTO 1530 Basic Electrical & Battery

Covers basic fundamentals of electricity and electronics, circuits, magnetism, resistance, coils, instruments, diodes and solid-state devices. Battery charging and testing is included. 3C/1/2/0

AUTO 1540 Basic Engine Management

Covers instruction on operation of the ignition system and maintenance of the ignition and fuel systems. This course focuses on the replacement of maintenance items such as spark plugs, distributor cap, ignition wire and air, fuel and emission filters. (Prerequisite(s): AUTO 1530) 3C/1/2/0

AUTO 1550 Heating & Air Conditioning

Focuses on the principles of heating and air conditioning. Topics include A/C types, the diagnoses of malfunctions and tests/repairs. Lab work is done on actual systems. During the lab, the student will test and repair vacuum and electrical controls, air flow distribution and heater system controls. (Prerequisite(s): AUTO 1530) 4C/1/3/0

AUTO 1570 Basic Auto Welding

Students will learn basic welding and cutting skills applicable for automotive technicians. Students will learn set up and use of Oxy Fuel Torch Cutting equipment. Students will also learn to set up, GMAW (Mig) welding equipment and successfully weld various joints in multiple positions. Students will also learn how to operate basic metal working tools and equipment such as grinders, band saws and shears. Shop safety is incorporated into all aspects of the course. 2C/0/2/0

AUTO 2410 Starting & Charging Systems

Covers overhaul of components such as starters and alternators. Complete system diagnoses and repair are also included. (Prerequisite(s): AUTO 1530) 3C/1/2/0

AUTO 2420 Electrical Accessories

Covers the operation and servicing techniques of chassis wiring, lights, instruments and headlight aiming. How to read and interpret wiring diagrams will also be included. (Prerequisite(s): AUTO 1530) 3C/1/2/0

AUTO 2430 Engine Theory & Repair

Covers disassembly, inspection, repair and reassembly of the internal combustion engine. Repair procedures such as the replacement of piston ring, engine bearings and valve grinding are covered. (Prerequisite(s): AUTO 1540) 4C/1/3/0

AUTO 2440 Engine Installation

Covers the removal and installation of complete engine assemblies, transfer of parts and removal and installation of accessories. 2C/1/1/0

AUTO 2450 Introduction to Auto Computers

Covers the operation of computer systems of engines using feedback carburetors and fuel injection. Sensors and actuators that operate in the system will be studied and tested. (Prerequisite(s): AUTO 1530) 2C/1/1/0

AUTO 2510 Fuel Systems

This course covers the fundamentals of carburetor and intake systems, maintenance and repair of the fuel system and emission controls. It also covers the use of 4 gas and 5 gas analyzers, scanners and other test equipment to troubleshoot and repair problems in computerized fuel systems. (Prerequisite(s): AUTO 1540) 5C/1/4/0

AUTO 2520 Engine Driveability

Covers application of knowledge and skills gained when studying engine, fuel, ignition and computer systems. (Prerequisite(s): AUTO 1410 and AUTO 1540) 3C/1/2/0

AUTO 2530 Automatic Transmission Theory

Covers the basics of torque converters, planetary gear sets, clutches, bands and hydraulics. 2C/1/1/0

AUTO 2542 Automatic Transmission Diagnosis & Repair

Covers automatic transmission and transaxle diagnoses and service. Trouble shooting and repair procedures will also be covered. (Prerequisite(s): AUTO 2530) 4C/2/2/0

AUTO 2550 Specialized Lab 1

Covers the content goals listed or any other goals that the student and the instructor agree upon. The purpose of the course is for students to specialize in an area they prefer. (Prerequisite(s): Completion of all other listed courses) 2C/1/1/0

AUTO 2570 Advanced Auto Welding

A continuation of Basic Auto Welding 1570. Students will learn to set up GTAW (Tig) welding equipment and will make welds on various materials such as Steel, Stainless steel and aluminum in multiple positions. Students will operate basic metal working tools and equipment such as grinders, band saws, and sheers. Welding shop safety is emphasized. (Prerequisite(s): AUTO 1570) 2C/0/2/0

Biochemistry

BIOC 1760 Chemical & Biological Instrumentation

This course introduces the principles of analytical methods and instrumentation. The theories and applications of various chemical and biochemical methods of analyses will be studied. Instrumentation methods including chromatography, spectrophotometry, microscopy, and others will be applied in laboratory to a variety of chemical and biological systems. Mathematical calculations, statistical analysis of data and computational methods will also be incorporated. Students will also be introduced to standards important to quality control in regulatory environments, using documentation procedures and validation principles according to regulatory standards. (Prerequisite(s): CHEM 1711 or BIOL 1740 with a grade of "C" or better) (MnTC: Goal 3) 4C/2/2/0

BIOC 1761 Chemical & Biological Ethics and Regulations

This course introduces Federal regulations and ethical considerations governing chemical, biological, and bioscience research. Ethical case studies will be presented and discussed, along with resulting legislation. Students will also gain an understanding of good laboratory practices, intellectual property, standard operating procedures, clinical research practices, and quality control procedures. The lab component of this course will provide hands-on experience with the laboratory environment, clean room environment, and instrumentation used in chemical and biological research. (Prerequisite(s): CHEM 1711 or BIOL 1740 with a grade of "C" or better) (MnTC: Goals 3 & 9) 4C/3/1/0

BIOC 1790 Special Topics in Biochemistry

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goal 3) Variable credits 1-6

BIOC 2700 Biochemistry

This is a combined lecture and lab. Lecture material includes structure and function of proteins, carbohydrates, nucleic acids, and lipids. Action and regulation of major metabolic pathways. Synthesis and degradation of biomolecules. Enzyme energetics, kinetics, and chemical basis for transmission of genetic information will also be discussed. Lab work will utilize applied biochemical techniques to reinforce topics covered in the lecture. This includes protein and lipid assays, examinations of metabolism, and analysis of sugars. Lab work will be designed to give the student experience using modern biochemical techniques and equipment. Responsible record keeping and conduct will also be emphasized. (Prerequisite(s): CHEM 2720 with a grade of "C" or better) (MnTC: Goal 3) 4C/3/1/0

BIOC 2790 Biochemistry Internship/Research Project

This course provides students with an opportunity to design and carry out a research project under the supervision of a faculty advisor utilizing biochemistry in a lab setting. The research project will be prepared using literature review, problem identification, procedural documentation, data collection, data analysis, findings, conclusions, and recommendations for future research. The course will also provide an opportunity for field study in an approved internship setting. Evaluation will be carried out by faculty teams and experts in the field. (Prerequisite(s): Instructor approval) (MnTC: Goal 3) Variable credits 1-4

BIOL 1471 Medical Terminology

This online course covers how bio/medical terms are constructed from Greek and Latin word elements including roots, combining forms, prefixes, and suffixes. Definitions, spelling, pronunciation, and applications of these terms will be stressed. Diseases and treatments specific to the body's organ systems will also be covered. This course is useful for anyone who desires a better understanding of medical language. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) 2C/2/0/0

BIOL 1725 Environmental Science

This course covers basic scientific and ecological principles, including an understanding of how the earth functions, how humans are affecting the earth, and proposed solutions to many of the environmental problems we face. Specific topics include: ecology, human population growth, biotechnology, pollution, human impacts on climate, energy resources, and waste management. Students will be required to take positions on environmental issues and alternative future scenarios. In-class activities will include group discussions and video and the use of internet-based resources. Two hours of lab per week are required and include group experiments, computer simulations, outdoor lab activities, and field trips. Traditional and online sections are available. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 3 & 10) 4C/3/1/0

BIOL 1730 Human Body Systems

This course covers body organization and the basic anatomy and physiology of cells, tissues, special senses, and the 11 organ systems of the body. Laboratory activities, including the dissection of a preserved animal and animal organs, are part of the course. This course is intended for all students in the liberal arts & sciences as well as other interested students. This course is required for the MLT Program and LPN Programs. Traditional and web-enhanced sections are available. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 3) 3C/2/1/0

BIOL 1735 Understanding Biology

This course is designed for non-science majors or as a preparation for BIOL 1740. A basic introduction to the principles of cell biology and genetics will be covered. The course will also examine the plant and animal kingdoms and general principles of ecology and evolution. One main goal of this course is to provide students with an understanding of biology that will allow them to evaluate and make informed opinions about related current events. Two hours of lab per week are required. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 3) 4C/3/1/0

BIOL 1740 General Biology 1: The Living Cell

This course is a study of biological processes including cell chemistry, metabolism, reproduction, genetics, and complex cell physiology. The lab component covers the application of concepts through observation, experimentation, and problem analysis. This course is intended for biology majors and students requiring a strong biological background for selected majors, including nursing and other allied health fields, and interested non-majors. BIOL 1740 is a prerequisite for BIOL 2721 Human Anatomy and Physiology 1, BIOL 2750 General Microbiology, and BIOL 1745 General Biology 2: The Living World. Traditional, web-enhanced and online sections are available. (Prerequisite(s): READ 0722 with a grade of "C" or better, or concurrent enrollment, or appropriate assessment score.) (MnTC: Goal 3) 5C/4/1/0

BIOL 1745 General Biology 2: The Living World

This course covers biological processes, including a survey of life forms (viruses, bacteria, protists, fungi, plants, and animals), their evolution, and ecology. The laboratory focuses on organism taxonomy, classification, and mammalian systems including comparative anatomy, organism dissections, ecological interrelationships of organisms and their environment. Three hours of lab per week are required and some activities involve the dissection of preserved animals and animal organs. (Prerequisite(s): BIOL 1740 General Biology 1: The Living Cell with a grade of "C" or better, or instructor permission) (MnTC: Goals 3 & 10) 5C/4/1/0

BIOL 1760 Nutrition

This course explores the science of nutrition, including healthy diet fundamentals and the roles of carbohydrates, proteins, fats, vitamins, and minerals in health and fitness. Topics such as dietary guidelines, risk factors for illnesses linked to nutrition, and how the media influences personal diet choices will be covered. Hunger and the global environment as it relates to nutrition will also be covered. This course includes hands-on, lab-like activities related to nutrition and health. Traditional and online sections are available. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 3) 3C/3/0/0

BIOL 1782 Introduction to Forensic Science

This course provides an introduction to Forensic Science. General biological concepts and their applications to various scientific principles and techniques used in Forensic Biology will be covered. Specific topics include chromatography, hair and fiber analysis, fingerprinting, blood spatter and typing, DNA typing, and forensic entomology. This course is intended for students in liberal arts and sciences, other related science fields, and interested non-science majors and can be used to fulfill the science lab requirement. Two hours of lab per week are required. Traditional and web-enhanced sections are available. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 3) 4C/3/1/0

BIOL 1785 Biology of Men and Women

This course is designed to bring into open many issues regarding those aspects of reproductive anatomy and physiology which are of special interest and unique to men and women, especially those relating to sexuality and reproduction. Lecture topics are structured to include lab like activities using models to study and compare male and female reproductive anatomy, fetal development and stages of pregnancy. Lab-like components include a tour of cell division and embryonic development using specimens. Topics which are factbased, opinion-based and controversial will be open to debates and discussions. Traditional and online sections are available. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 3 & 9) 3C/3/0/0

BIOL 1790 Special Topics in Biology

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goal 3) Variable credits 1-6

BIOL 2721 Human Anatomy and Physiology 1

This course covers body organization, tissues, human body systems (integumentary, skeletal, muscular and nervous), and the special senses, integrating both the anatomy and physiology of each organ system. Dysfunctions may be included, but the body in homeostasis is emphasized. Two hours of lab per week are required. Some lab activities involve the dissection of preserved animal organs. Traditional and web-enhanced sections are available. (Prerequisite(s): BIOL 1740 General Biology 1: The Living Cell with a grade of "C" or better) (MnTC: Goal 3) 4C/3/1/0

BIOL 2722 Human Anatomy and Physiology 2

This course covers those body systems not included in Human Anatomy & Physiology 1: cardiovascular, respiratory, reproductive, endocrine, digestive, urinary, and lymphatic/immune systems. The anatomy and physiology of each organ system is integrated. Dysfunctions may be included, but the body in homeostasis is emphasized. Two hours of lab per week are required. Many lab activities involve dissection of a preserved animal and animal organs. (Prerequisite(s): BIOL 2721 Human Anatomy and Physiology 1 with a grade of "C" or better) Traditional and web-enhanced sections are available. (MnTC: Goal 3) 4C/3/1/0

BIOL 2750 General Microbiology

General Microbiology covers bacteria, fungi, protozoa, algae, and viruses. Structure, metabolism, growth requirements, genetics, and replication of these microbes will be compared. Emphasis will be placed on the role of microbes in human disease and the function of the immune system in microbial control and balance. Environment and industrial microbiology will also be discussed. Three hours of lab per week are required and sessions will be structured to provide a hands-on introduction to common laboratory techniques related to topics covered in lecture. Safety and infection control will also be stressed. (Prerequisite(s): BIOL 1740 General Biology 1: The Living Cell with a grade of "C" or better) Traditional and web-enhanced sections are available. (MnTC: Goal 3) 4C/3/1/0

BIOL 2760 Cell and Molecular Biology

This course is designed for Saint Paul College students interested in Biomedical or Biotechnology sciences as part of their core curriculum. It is also open to any student interested in the fields of cell biology and molecular genetics. Through laboratory investigations, students will learn the current concepts and techniques in molecular biology for a better understanding of the cell. Students will also learn the use of National Center for Biotechnology Information (NCBI) website for the analysis of genetic sequence and applying their findings to the treatments and cure of human disease, agricultural improvement, forensic science and a better understanding of evolution. Ethical and moral issues posed by molecular biotechnology will be explored and discussed. (Prerequisite(s): BIOL 2750 General Microbiology with a grade of "C" or better) (MnTC: Goal 3) 5C/4/1/0

BIOL 2770 Biology Internship

This course provides students with an opportunity to design and carry out a science research project under the supervision of a faculty advisor. The research report will be prepared using literature review, problem identification, procedural documentation, data collection, data analysis, findings, conclusions, and recommendations. Evaluation will be carried out by faculty teams and experts in the field. The course will also provide an opportunity for field study in an approved internship setting. (Prerequisite(s): Instructor approval) (MnTC: Goal 3) Variable credits 1-4

Business

BUSN 1410 Introduction to Business

Offers an introduction to the United States business system. Students will explore economic principles, international business, business ethics, marketing and financial principles. 3C/3/0/0

BUSN 1440 Marketing Principles

Students will develop an understanding of the basic principles of marketing. Students will examine core marketing concepts (needs, wants and demands) and the elements used in developing a marketing plan, including consumer behavior principles, direct and online marketing, pricing strategies, advertising, sales promotion, public relations, personal selling and product distribution. Current marketing trends will be discussed. 3C/3/0/0

BUSN 1441 Consumer Behavior

This course will explore the behavior of consumers as it relates to products and services. The role of the consumer in the marketplace will be examined including the analysis of needs, motivation, attitudes, perceptions, decisions, and behavior. 3C/3/0/0

BUSN 1444 Advertising and Promotional Strategies

This course explores the world of advertising and other mass communications practices. It will examine advertising theory, functions and principles. All types of media will be explored, including television, radio, magazine, newspaper, outdoor and the internet. Various careers in advertising will be examined. 3C/3/0/0

BUSN 1446 Sales and Account Management

In this course we will examine the personal selling process. We will explore the practical and tactical process of how to sell products and services in a complex market. We will also examine sales force training, compensation, territory assignment and quotas. 3C/3/0/0

BUSN 1480 Business Career Resources

This course provides information and guidance in the development of professional job seeking skills. Topics will include: the application, the resume, the cover letter, using the Internet in a job search, locating job opportunities, marketing yourself and company research. 1C/1/0/0

BUSN 1490 E-Marketing

The Internet and other technologies have created many opportunities for businesses and organizations to communicate and create value for their customers. Tis course is designed to give students an understanding of E-Marketing strategies and how they fit into an overall integrated marketing and communications plan. Topics include direct marketing;, internet advertising, performance analytics, search engine optimization and career opportunities in E-Marketing. 3C/3/0/0

BUSN 1492 Social Media Marketing

In this course students will learn successful marketing strategies using social media as an essential part of an integrated marketing strategy. Social media provides both a listening and outreach tool for promoting business, products and ideas. Social media ethics, legal issues and best practices will be covered. Various social media platforms such as Facebook, Twitter, YouTube and LinkedIn will be explored as well as careers and jobs in Social Media Marketing. Students will analyze contemporary social media cases and strategies and develop a comprehensive social media marketing plan. Other topics include target marketing on the social web and rules of engagement. 3C/3/0/0

BUSN 1760 Principles of Finance

Principles and practices of business finance to help decision makers in a dynamic economy. Focus is placed on reviewing and analyzing financial statements, the time value of money, cash flow management, and risk and return. 4C/4/0/0

BUSN 1762 Money and Banking

This course provides an introduction to money and banking and presents a fundamental treatment of how money functions in the United States and world economies. It introduces the concept of money supply and the role of banks as money creators and as participants in the nation's payments mechanism. The course explores the working of fiscal and monetary policy, the functions and powers of the Federal Reserve System, and various monetary theories. Also highlighted are major trends and issues in banking and international banking. 4C/4/0/0

BUSN 1770 The Business of Music

This course presents a broad overview of the recording and music industry, and explains how the various segments operate on a day to day basis; where monies are generated, who the key players are, how deals are made and broken, how to protect technology that are changing the way that music is marketed, promoted, distributed, and heard. This course presents the career opportunities that are available within the industry, and the knowledge you'll need to achieve your goals. 3C/3/0/0

BUSN 1780 Business Trends in Music

This course is essential for all artists, songwriters and music business people seeking successful careers in the music business. The course examines aspects of the evolving music industry, reflect on changes affecting it, and evaluate how these changes, technologies and powerful trends can directly impact your career. 3/3/0/0

BUSN 2410 Critical Thinking for Business Decision Making

This course will cover theory and application of critical thinking. Students explore the various elements of the critical thinking process and understand the importance of effective critical thinking skills in the 21st century workplace. Emphasis is placed on learning how to use critical thinking to challenge assumptions and expand perceptions about situations, as well as applying improved skills to the day-to-day operations of a business. 2C/2/0/0

BUSN 2440 Fundamentals of Nonprofit Management

This course explains the foundation of the nonprofit sector. Students will be introduced to the fundamentals of effective organization mission and vision statements, strategic planning, operations management, board development and budgeting. Students will gain understanding of different aspects of the nonprofit organization. 3C/3/0/0

BUSN 2441 Fundraising Techniques

Learn the role of the board and staff in fundraising, setting fundraising goals, and the cultivation and recognition of donors. This course also covers other components of fundraising for successful generation of revenue. 1C/1/0/0

BUSN 2442 Grant Writing and Research

Learn the tactics of researching and writing effective proposals. Discover the best ways to develop documentation, write compelling inquiry letters and set goals that can be achieved. 1C/1/0/0

BUSN 2443 Dynamics of Board Relations

Develop a better board of directors or become a better board member. Boards of directors of nonprofits are often unclear about their role and relationship with staff and the executive director. This course defines the role of the board and strengthens the working relationship between staff members and board members. 1C/1/0/0

BUSN 2444 Volunteer Program Management

Volunteers make it happen! Successful management of this important asset is critical to an organization. Learn the basic principles and concepts of professional volunteer management and gain a solid foundation on which to build. 1C/1/0/0

BUSN 2445 Legal Environment of Nonprofits

Gain knowledge of the complexities of nonprofit organizations. Learn about the legal aspects of nonprofit and tax exempt organizations under federal and state law. Areas discussed include incorporation, exemption, reporting requirements and various IRS mandates for 501(c)(3) exemptions. 1C/1/0/0

BUSN 2450 Management Fundamentals

The course includes the history of management theory with emphasis on forces of change that have resulted in a changing view of the business world for managers. Principal management functions covered are planning, organizing, leading and the process of control as an information feedback function for increasing productivity. Emphasis is on the integration of all management functions into one effort for visionary, effective and efficient operations. 3C/3/0/0

BUSN 2455 Essentials of Entrepreneurship and Small Business Management

In this course the student will learn the essential skills needed to start and manage a successful new business venture. Topics include: the challenge of entrepreneurship, building a business plan, marketing and financial issues with a start-up company and how to gain a competitive advantage. 3C/3/0/0

BUSN 2459 Family and Personal Financial Planning

This course offers practical methods for managing individual personal and family finances. Tools, software and strategies will be explored to encourage responsible financial well-being. Students will write a financial plan consistent with individual goals and values that incorporate the areas studied in the course. 4C/4/0/0

BUSN 2460 Entrepreneurship Resources

In this course the student will learn the essential resources needed to start and manage a successful new business venture. Topics include: how to work with the small business Administration, free federal and state resources and how to decide which resources are most valuable when starting a new business. 2C/2/0/0

BUSN 2463 Organizational Leadership and Decision Making

This course combines theory and practice by encouraging students to learn traditional and contemporary leadership theories and applications. This course includes case studies, exercises, and numerous examples of effective leadership models. Areas covered include the leadership roles of strategy, vision and transformational change; the development of leaders; the leadership responsibilities of creating effective teams, organizations and cultures; the exploration of different leadership styles; and current approaches to leadership theory. 3C/3/0/0

BUSN 2464 Leading and Coaching Others

This course focuses on developing skills as a leader and coach. The students will explore a variety of coaching tools, techniques and best practices, from analyzing performance to creating a climate for effective coaching and learning. Some of the coaching and leadership topics include improving skills for developing trust, confidence, and rapport. The course also explores obstacles of coaching and provides tools for overcoming the obstacles. 2C/2/0/0

BUSN 2465 Business Ethics

This course introduces students to ethical issues and concepts as they relate to business and as they impact society, the economy and the environment. Students will analyze various approaches to making ethical decisions through case studies. Topics range from the role of the government to corporate global businesses. Both national and international ethics will be discussed. 3C/3/0/0

BUSN 2466 Managing Change and Conflict

This course helps students to learn and develop the unique set of skills and competencies used to initiate and sustain major organizational change. Students explore techniques for working collaboratively with others to drive organizational culture change. Emphasis is also placed on effectively managing conflict and provides opportunity to develop a list of tools and resources used in conflict management. 2C/2/0/0

BUSN 2470 Legal Environment of Business

This course covers basic information about the various classifications of the law and the rights and responsibilities imposed on the business community by our legal system. The course introduces students to the legal system and its impact on the individual, the business environment and upon society as a whole. Areas of study include basic laws, contracts, negligence, product liability, employment law, alternative dispute resolution and business entities. 3C/3/0/0

BUSN 2471 Strategic Planning

Gain an understanding of methods for developing your strategic plan with your volunteer groups and learn about the concepts and formats to make it successful. An organization must demonstrate that it is doing a good job by implementing its mission, involving community, using its resources well and showing how it is advancing the community. 3C/3/0/0

BUSN 2472 Business Negotiation Skills

Covers techniques and unique circumstances for the negotiation of prices in the business environment. The course will guide students through the areas of risk negotiations, bargaining concepts, strategy and tactics for successful contract negotiations. 3C/3/0/0

Course Descriptions

BUSN 2473 Project Management

This course is an introduction to project management. The course emphasizes the relationship of project management techniques to business decisions. Project management processes for initiating, planning, executing and closing down projects are covered. Specific techniques covered include work breakdown schedules, resource leveling, risk identification, contingency planning and other skills are covered. Each student will conduct a series of case studies using Microsoft Project as project management tools. 3C/3/0/0

BUSN 2480 Business Management Internship

A cooperative work-study program between Saint Paul College — A Community & Technical College Business Management degree program and a business facility. This elective course allows the student to experience a closely supervised job situation that is related to the program. (Prerequisite(s): Instructor approval) Variable credits 1-3

BUSN 2482 Entrepreneurship Capstone

Students will complete a business plan. A business plan integrates skills and elements from various disciplines. Because a business plan is a complete and professional document that establishes the viability of your business ideas, students will build both their writing and presentation skills. 3C/3/0/0

Business Technology

BTEC 1400 Keyboarding

Covers "Touch Keyboarding" skill development on a computer keyboard. A variety of drills will be used to develop speed and accuracy of keyboarding skills. 2C/1/1/0

BTEC 1401 Skillbuilding for Keyboarding

Designed to increase keyboarding speed and improve keyboarding accuracy through personal goal setting, error analysis and intensive corrective practice work. Students must know how to key using the "touch" method. 2C/1/1/0

BTEC 1410 Advanced Keyboarding Applications

Covers continued development of keyboarding speed and accuracy and proofreading skills. Students will develop skill in formatting and production of the following documents: memos, letters, envelopes, tables, and reports. Students will be tested on the first day of class to determine two requirements: 1. Accurate keyboarding speed of 30 wpm, and 2. Using the touch method. 3C/1/2/0

BTEC 1418 Computer Fundamentals

This course covers introductory information about computer hardware and software, working with drives, folders and files, and the use of the microcomputer as a productivity tool. Students will be given introductory training in Microsoft Windows, Microsoft Office (word processing, spreadsheets, graphs, database and presentation applications) and Internet usage. 3C/3/0/0

BTEC 1421 Business Information Applications 1

This is the first course in a series that teaches students how to use Microsoft Office software applications. Software covered includes Word, Excel, Access, and PowerPoint. By the end of this course, students will be skilled in the basic features of Microsoft Office. Students will create common business documents including letters, reports, tables, newsletters, Excel worksheets, Access databases, and PowerPoint graphic presentations. This course, BTEC 1423 Business Information Applications 2 and BTEC 2506 Business Information Applications 3, prepare the student for the Microsoft Office Specialist (MOS) certification exams. (Prerequisite(s): BTEC 1418 or knowledge of computers) 3C/0/3/0

BTEC 1423 Business Information Applications 2

This is the second course in a series that teaches students how to use Microsoft Office software applications. Software used includes Word, Excel, Access, and PowerPoint. By the end of this course, students will be skilled in the advanced features of Microsoft Office. Students will create advanced business documents including Word form letters, merged documents, and newsletters; Excel financial worksheets, amortization schedules, and data tables; advanced Access queries, multi-table forms, customized reports and switchboards; and advanced PowerPoint presentations. This course, BTEC 1421 Business Information Applications 1 and BTEC 2506 Business Information Applications 3, prepare the student for the Microsoft Office Specialist (MOS) certification exams. (Prerequisite(s): BTEC 1421) 4C/0/4/0

BTEC 1445 Business Communications

This course takes a practical and analytical approach to developing written and oral business communication skills. Students learn to analyze the audience and purpose of the communication, research and organize ideas, format and design written documents, and create oral presentations based on the subject matter and content. Students will learn to work cooperatively in groups and meetings. Applying the rules for proper grammar and punctuation will be incorporated throughout all projects. 3C/3/0/0

BTEC 1530 Communication Technology

This course offers hands-on instruction in current communication technology software. Topics in this class will cover the fundamentals of Microsoft Outlook, Microsoft Publisher, and creating web pages. In Microsoft Outlook, the students will create messages, contact lists, and manage calendars. In Microsoft Publisher, the student will create and edit a publication, design a newsletter, publish a tri-fold brochure, and create an e-mail letter. Students will also learn how to create a simple Web site, add text and links, and create tables. (Prerequisite(s): BTEC 1418 or equivalent) 4C/0/4/0

BTEC 2410 Business Procedures

This course covers topics that develop skill in performing typical office tasks: telephoning, mailing, filing, calendaring, meeting arrangements, travel arrangements, office equipment care, time management, document production, reprographics and creating reports and financial records. Through the use of interactive software and projects, the student will experience daily routines, make decisions, set priorities, deal with work pressures, develop interpersonal relationships and become aware of work quality and quantity requirements. 4C/4/0/0

BTEC 2506 Business Information Applications 3

This is the third course in a sequence that explores expert level applications using Microsoft Office software. This course assumes students are familiar with the fundamental and advanced features of Microsoft Word, Excel, Access, and PowerPoint. Students demonstrate proficiency in Microsoft Office in preparation for the Microsoft Certified Applications Specialist certification exams. Students create expert level documents, worksheets, databases, and presentations suitable for the business environment, coursework, and personal use. (Prerequisites(s): BTEC 1423) 4C/0/4/0

BTEC 2550 Emerging Business Technologies

This course explores emerging business technologies and their connection to business processes. The course includes discussions of social, legal, and ethical issues, in the business environment. Students will explore their role and responsibilities to the environment and society, to ensure that productivity and technology are appropriately managed. 4C/0/4/0

BTEC 2590 Business Technology Internship

A cooperative work-study program between Saint Paul College Business Technology programs and a business facility. This course allows the student to experience a closely supervised job situation that is related to the program. (Prerequisite(s): Instructor approval) Variable credits 2-8

Cabinetmaking

CABT 1410 Print Reading and Design

This course will introduce students to residential print reading, building trade drawings, architectural graphics, and symbols used in the trades. Students will also be introduced to AutoCAD (computerized drafting software) where they will learn basic commands needed to design 2D drawings. 3C/2/1/0

CABT 1415 Wood Technology

This course will introduce students to the materials and finishes used in cabinetmaking. Students will learn to identify hardwoods, softwoods and manufactured panel products, and the grading of these products. Students will also learn about abrasives, adhesives, fasteners, and clamping devices. The second half of this course will cover the types of finishes used in cabinetmaking and how they are applied. 3C/1/2/0

CABT 1425 Machining 1

This course will introduce students to shop safety. The student will study the identification, care and use of hand tools, portable power tools, and machinery. The course offers safety demonstrations on all power equipment and safety tests will be performed on most machines. Basic knowledge of power and hand tools is required. Students will master the machinery through building various projects. 5C/2/3/0

CABT 1426 Machining 2

This course will reinforce proper machine operation and safety on woodworking machinery already learned in Machining 1. Advanced woodworking machinery not covered in Machining 1 will be demonstrated, along with safety tests on these machines. Machine maintenance and tooling is covered. A series of projects will give the students hands-on experience. Machining 1 is not a prerequisite for this course. 3C/1/2/0

CABT 1431 Framed Cabinetry

This course introduces the student to face frame base and upper cabinetry. Students will learn the design, planning, and construction processes of building face frame cabinets. The student will then apply these techniques by building a project. (Co-Requisite(s): CABT 1425) 5C/2/3/0

CABT 1440 Wood Preparation and Repair

This course will cover wood preparation for finishing. Students will study in depth on the different abrasive products used in the wood industry and how to properly use them. Students will learn the various techniques for repairing both new and pre finished wood which may be damaged. Bleaching, filling grain, distressing, and aging techniques will also be covered. Students will master the techniques through various projects. 3C/2/1/0

CABT 1447 Wood Finishing 1

This course will concentrate on the colors of finishing. Students will learn color theory and how it applies to wood finishing. Various types of stains and methods of applying them will be covered in this course. Students will master the techniques through various projects. (Prerequisite(s): CABT 1440 Wood Preparation and Repair; Co-Requisite(s): CABT 1448 Wood Finishing 2) 3C/2/1/0

CABT 1448 Wood Finishing 2

This course will cover the various types of top coat finishes, application methods, and compatibility of various finishes. Students will master the techniques through various projects. (Prerequisite(s): CABT 1440 Wood Preparation and Repair; Co-Requisite(s): CABT 1447 Wood Finishing 1) 3C/2/1/0

CABT 2410 Laminates and Countertops

This course introduces students to laminates/veneers, the tools used for laminating, and laminate countertops. Students will learn to measure, order material, layout, and fabricate laminate countertops. Solid surface, stone products, and other types of countertops are also covered. Various projects will give the students hands-on experience. 4C/1/3/0

CABT 2441 Frameless Cabinetry

This course introduces the students to frameless cabinetry which is also known as European cabinetry, or 32mm cabinetry. The course will cover design, layout, and construction of frameless cabinets using boring machines and edgebanders, and the hardware used in frameless cabinetry. Commercial fixtures used in retail will also be covered in this course. The students will build both a base and an upper utility cabinet using the techniques learned. (Co-Requisite(s): CABT 1426) 5C/2/3/0

CABT 2510 CAD/CAM/CNC

This course will introduce the students to computer operated machinery. The student will learn to layout and draw projects using computers, apply tool paths for various operations, and set up a CNC router to perform operations. 4C/2/2/0

CABT 2700 Cabinetmaking - Open Lab

This course is for students with prior experience with woodworking terminology and shop safety; students wanting to upgrade their skills and knowledge to help them in the cabinetmaking industry. The student must be able to demonstrate the use of hand tools and portable power equipment. The student must meet with the instructor to see whether the student has the correct criteria in the cabinetmaking area. New students must meet with the instructor prior to registering for the class. Variable credits 1-2

CABT 2705 Specialty Finishes

This course will cover specialty finishes used in the furniture & cabinet industry such as crackle finishes, antiquing, and other faux finishes. Students will master the techniques through various projects. 2C/1/1/0

CABT 2790 Cabinetmaking Special Projects

This course is designed to create customized projects for students as needed on an individual basis. Variable credits 1-4

Carpentry

CARP 1110 Carpentry Remodeling Techniques

The student will learn the latest procedures and steps in planning, executing and completing remodeling projects around the house. 3C/2/1/0

CARP 1112 Building Walls/Hanging Drywall

This is a beginning wall building class. The student will learn Carpentry jargon, layout and procedures for wall construction and how to cover walls with drywall and finish them for painting. 3C/2/1/0

CARP 1114 Finish Carpentry Techniques

The student will learn to finish a remodeling project by installing base trim, ceiling trim, window and door casings. The student will also learn special finish trim techniques. 3C/2/1/0

CARP 1116 Installing Windows and Doors

The student will learn how to install various windows and hang interior doors in a home. They will learn to make both plumb, level and square weatherize. 3C/2/1/0

CARP 1410 Project Estimating

Review basic arithmetic, algebra and geometry as it relates to carpentry. Students will learn construction terminology and estimate building costs. 3C/3/0/0

CARP 1420 Construction Blueprint Reading

Covers reading and interpreting blueprints used in the construction industry. Lines, abbreviations, symbols, parts of the blueprints, specifications and isometric drawings will be included in this class. 2C/2/0/0

CARP 1430 Introduction to Carpentry and Hand-tools

Learn to make drawings and sketches used in construction and learn to use basic carpentry hand tools. (Prerequisite(s): Concurrent enrollment in CARP 1420) 3C/1/2/0

CARP 1510 Intermediate Carpentry

Safety, job site working conditions and trade requirements, construction materials, building codes and residential construction concepts are included in this class. 5C/4/1/0

CARP 1521 Building Technology

Covers practice on the safe use of portable power tools and stationary shop equipment. Students gain familiarity with materials used in the construction industry and procedures used in the erection of residential and light commercial buildings. (Prerequisite(s): Concurrent enrollment in CARP 1510) 5C/0/5/0

CARP 1522 Power Tool & Shop Procedures

Continuation of CARP 1521. Includes practice on the safe use of portable power tools and stationary shop equipment. Students gain familiarity with materials used in the construction industry and procedures used in the erection of residential and light commercial buildings. (Prerequisite(s): Concurrent enrollment in CARP 1510) 5C/3/2/0

CARP 2410 Advanced Carpentry

Covers the methods and features of the instruments used by carpenters in laying out buildings. Cabinet installation, job seeking, soil types and excavations, properties of concrete and equipment and procedures used in the erection of commercial construction projects are included in this class. (Prerequisite(s): CARP 1510, CARP 1521, CARP 1522) 6C/4/2/0

CARP 2421 Fieldwork and Carpentry Procedures

Provides hands-on experience with the optic and electronic instruments used in laying out buildings. Erect scaffold systems and concrete forming systems used on commercial building projects. (Prerequisite(s): Concurrent enrollment in CARP 2410) 5C/1/4/0

CARP 2422 Carpentry Concrete Technology and Installation

Continuation of CARP 2421. Get hands-on experience with the optic and electronic instruments used in laying out buildings. Erect scaffold systems and concrete forming systems used on commercial building projects. (Prerequisite(s): Concurrent enrollment in CARP 2410) 5C/1/4/0

Center for Manufacturing and Applied Engineering

CMAE 1532 Machine Tool Print Reading

This course covers the principles of mechanical print reading. Course includes sketching, lines, dimensioning and tolerancing, and single/ multi-view drawings. 2C/2/0/0

CMAE 1534 Machine Tool Technology Theory

This course will address the machining theory related to the safety and operation of basic machine tools including; drill press, vertical milling machine, engine lathe, precision and non-precision grinders, saws and precision measuring equipment. This is a blended online course utilizing Tooling U and D2L. 2C/2/0/0

CMAE 1536 Machine Tool Technology 1

This course will address the operations of a drill press, tool grinder, vertical milling machine, engine lathe, and saws. Machine safety, machine component identification, as well as turning, milling, sawing, bench work, drilling and single-point tool grinding projects are also included in the components listed above. The student will also learn the care and use of inspections and layout tools. (Co-Requisite(s): CMAE 1534 Machine Tool Technology Theory) 2C/0/2/0

CMAE 1538 Machine Tool Technology 2

This course will address the advanced operations of a drill press, vertical milling machine, engine lathe, surface grinder and saws. Machine safety, machine component identification, as well as turning, milling, sawing, drilling and surface grinding projects are also included in the components listed above. The student will also learn the care and use of high precision measuring equipment. (Prerequisite(s): CMAE 1536 Machine Tool Technology 1) 2C/0/2/0

CMAE 1540 Introduction to CNC Machining

This online course is an introduction to CNC machining. Topics included are the History of CNC, the Cartesian coordinate system, and CNC program structure using G and M codes. Coursework will focus on programming, set-up procedures and machining processes for CNC milling and drilling operations. The course will utilize Immersive Engineering virtual software that will allow learners to set-up and verify programs online. (Co-Requisite(s): CMAE 1536 Machine Tool Technology 1) 3C/3/0/0

Chemistry

CHEM 1700 Chemistry Concepts

This laboratory science course covers the basic concepts of chemistry. Topics include measurements and calculations used in chemistry; the general properties of chemicals; physical characteristics of matter, atoms and elements; basics of chemical bonding; chemical equations and their uses; gases, liquids and solids, solutions and acids and bases. The course relates chemistry concepts to applications in everyday life. The course is intended for students who have not had a high school chemistry course. It is now offered as a full Online introductory chemistry course (all lectures and laboratory experiments online; no seat time). (Prerequisite(s): MATH 1510 Introductory Algebra with a grade of "C" or better, or appropriate assessment score) (MnTC: Goal 3) 4C/3/1/0

CHEM 1711 Principles of Chemistry 1

This course uses the scientific method to study matter; what matter is comprised of and how matter changes. Basic chemical theory and applications are covered with an emphasis on the principles and theories of atomic and molecular structure; periodic properties of elements; thermochemistry, and reaction stoichiometry; behavior of gases, liquids and solids; molecular and ionic structure and bonding; energy sources and environmental issues related to energy use. The lab component includes the application of chemical concepts through observation, data collection, quantitative measurement and problem analysis. High School chemistry is recommended. (Prerequisite(s): MATH 1520 Intermediate Algebra or CHEM 1700 Chemistry Concepts with a grade of "C" or better, or appropriate assessment score) (MnTC: Goal 3) 4C/3/1/0

CHEM 1712 Principles of Chemistry 2

This course is a continuation of CHEM 1711 Principles of Chemistry 1 with an emphasis on chemical kinetics; radioactive decay; chemical equilibrium; solutions; acids and bases; solubility; second law of thermodynamics; electrochemistry and corrosion; descriptive chemistry of the elements; coordination chemistry; biochemistry; and applications of chemical principles to environmental problems. The lab component of this course provides students with the opportunity to apply chemical concepts through observation, data collection, quantitative measurement and problem analysis. (Prerequisite(s): CHEM 1711 with a grade of "C" or better) (MnTC: Goal 3) 4C/3/1/0

CHEM 2700 Organic Chemistry Survey

This course is a one semester survey course of topics in organic chemistry. This course is designed to give a basic understanding of the role that organic compounds play in nature as well as their industrial applications. Topics include an overview of covalent bonding, nomenclature, reactions, and stereochemistry. A variety of different organic functional groups will be studied including alkanes, aromatics, halides, alcohols, aldehydes, ketones, and carboxylic acids. The laboratory activities include an introduction to laboratory techniques used in chemical synthesis, and the use of chromatography and spectroscopy in the analysis of organic compounds. (Prerequisite(s): CHEM 1712 with a grade of "C" or better) (MnTC: Goal 3) 4C/3/1/0

CHEM 2720 Organic Chemistry 1

This course is the first semester of a two-semester sequence in organic chemistry. Topics include an overview of covalent bonding, acid-base chemistry, and reaction energetics. The course also covers nomenclature, stereochemistry, substitution and elimination reactions and reactions alkanes, alkenes, alkynes, and alcohols. The laboratory activities include an introduction to laboratory techniques used in organic chemical synthesis, and the use of chromatography and spectroscopy in the analysis of organic compounds. Three hours of lab per week are required. (Prerequisite(s): CHEM 1712 with a grade of "C" or better) (MnTC: Goal 3) 5C/4/1/0

CHEM 2721 Organic Chemistry 2

This course is a continuation of CHEM 2720 Organic Chemistry 1. Topics include amines, ketones, aldehydes, carboxylic acids, and their derivatives. Reaction types studied include electrophilic aromatic substitution, nucleophilic aromatic substitution, nucleophilic addition and substitution at carbonyl groups, and reactions at the alpha carbon of carbonyl compounds. The course also includes application of organic chemistry related to polymers, natural products, and biochemistry. The laboratory activities cover reactions, synthesis, and the chemical and instructional identification of organic compounds. Three hours of lab per week are required. (Prerequisite(s): CHEM 2720 with a grade of "C" or better) (MnTC: Goal 3) 5C/4/1/0

CHEM 2790 Chemical Technology Laboratory Internship/ Research Project

This course provides students with an opportunity to design and carry out a science research project under the supervision of a faculty advisor. The research project will be prepared using literature review, problem identification, procedural documentation, data collection, data analysis, findings, conclusions, and recommendations. Evaluation will be carried out by faculty teams and experts in the field. The course will also provide an opportunity for field study in an approved internship setting. (Prerequisite(s): Instructor approval) (MnTC: Goal 3) Variable credits 1-4

CHEM 2791 Cleanroom Lab Internship/Research Project

This course provides students with an opportunity to design and carry out a research project under the supervision of a faculty advisor utilizing the cleanroom facilities. The research project will be prepared using literature review, problem identification, procedural documentation, data collection, data analysis, findings, conclusions, and recommendations for future research. The course will also provide an opportunity for field study in an approved internship setting. Evaluation will be carried out by faculty teams and experts in the field. (Prerequisite(s): Instructor approval) (MnTC: Goal 3) Variable credits 1-4

CHEM 2795 Special Topics in Chemistry

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goal 3) Variable credits 1-6

Child Development

CDEV 1200 Introduction to Early Childhood Education

This course provides an overview of the early childhood field, including philosophies, missions, and regulations. It examines the roles and responsibilities of professionals in a variety of career settings. Examines positive communication and relationships with families 3C/3/0/0

CDEV 1210 Child Growth and Development

Examines the major developmental milestones for children, both typical and atypical, from conception through adolescence in the areas of physical, psychosocial, and cognitive development. Emphasizes interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methods, students will observe children and analyze characteristics of development at various stages. 3C/2/1/0

CDEV 1220 Health, Safety and Nutrition

An introduction to the regulations, standards, policies, and procedures, prevention techniques, and early childhood curriculum related to health, safety, and nutrition. The key components that ensure physical health, mental health, and safety for both children and staff will be identified, as well as the importance of collaboration with families and health professionals. A focus will be on integrating the concepts into everyday planning and program development. 3C/2/1/0

CDEV 1230 Guiding Children's Behavior

Examines positive strategies to guide children's behavior in the early childhood setting. Examines ways to establish supportive relationships with children and guide them, in order to enhance learning, development, and well-being. 3C/3/0/0

CDEV 1240 Learning Environment and Curriculum

Presents an overview of knowledge and skills related to providing appropriate curriculum and environments for young children. Examines the role of the teacher in providing learning experiences to meet each child's needs, capabilities, and interests, and ways to implement the principles of developmentally appropriate practices. Will provide an overview of content areas including (but not limited to): Language and literacy, social and emotional learning, sensory learning, art and creativity, math and science. 4C/3/1/0

CDEV 1316 Observation and Assessment

This course focuses on the appropriate use of assessment and observation strategies to document development, growth, play and learning to join with families and professionals in promoting children's success. Recording strategies, rating systems, multiple assessment tools and portfolios are explored. There will be a focus on increasing objectivity in observing and interpreting children's behavior, observing developmental characteristics and increasing the awareness of normal patterns of behavior. (Prerequisite(s): CDEV 1210 Child Growth and Development and CDEV 1230 Guiding Children's Behaviors) 3C/3/0/0

CDEV 1910 Practicum 1

Students demonstrate early childhood teaching competencies under guided supervision to make connections between theory and practice and developing professional behaviors. Students apply comprehensive understanding of children and families; developmentally appropriate, child-centered, play-oriented approaches to teaching and learning, and knowledge of curriculum content areas. They design, implement, and evaluate experiences that promote positive development and learning for all young children. (Prerequisite(s) Completion of all other Diploma level courses and instructor approval) 3C/0/0/3

CDEV 2320 Children with Differing Abilities

Examines the child with differing abilities in an early childhood setting. Students will integrate strategies that support diversity and anti-bias perspectives, provide inclusive programs for young children, apply legal and ethical requirements including, but not limited to ADA and IDEA, differentiate between typical and exceptional development, analyze the differing abilities of children with physical, cognitive, health/medical, communication, and/or behavioral/emotional disorders, work collaboratively with community and professional resources, utilize an individual education plan, adapt curriculum to meet the needs of children with developmental differences, cultivate partnerships with families who have children with developmental differences. (Prerequisite(s): Completion of all diploma level coursework or instructor approval) 3C/2/1/0

CDEV 2520 The Peaceful Classroom

Provides an overview of the effects of violence on the development and the behavior of young children. Students explore elements to be incorporated into a Peaceful Classroom. Students identify behavioral intervention strategies to address challenging behaviors and create activities to foster peacemaking skills in children. 3C/3/0/0

CDEV 2530 Children with Challenging Behaviors

Helps students understand children's behavior problems and identify intervention strategies to prevent and resolve problem behavior, use behavior modification effectively and design behavior plans. 3C3/0/0

CDEV 2550 Math, Science and Technology for Young Children

Provides an overview of cognitive development and math and science learning experiences in home and center-based settings. Students integrate knowledge of child development, learning environments and teaching methods to promote curiosity, attention, perception, memory, problem solving, and logical thinking, etc. 3C/2/1/0

CDEV 2560 Language & Literature Learning Experiences

Provides an overview of language learning experiences in early childhood settings and a detailed study of literature/literacy experiences. Students will integrate knowledge of children's language and literacy development, learning environments and teaching strategies to select, plan, present, and evaluate literature experiences to children of different abilities and diverse backgrounds. 3C/2/1/0

CDEV 2570 Working with Diverse Children and Families

Examines how to work with many types of families. Investigates the importance of the family/school partnership, study methods of effectively communicating with families, and identify community organizations and networks that support families. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. 3C/3/0/0

CDEV 2580 Creative Development & Learning Experiences

Provides an overview of creative development and artistic/aesthetic learning experiences in home and center-based settings. Students integrate knowledge of child development, learning environments, and teaching methods to promote children's artistic, musical, movement and dramatic abilities. 3C/3/0/0

CDEV 2590 Social-Emotional Development & Learning Experiences

Provides an overview of social-emotional learning experiences. Students integrate knowledge of child development, learning environment, and teaching methods to promote emotional development, self-concept, self-esteem, social skills, diversity awareness, and social studies. 3C/3/0/0

CDEV 2597 Special Topics

Intent of this course is to allow flexibility in providing learning experiences to meet a special need of the student, the major program and the College. (Prerequisite(s): Instructor approval) Variable credits 1–4

CDEV 2599 Practicum 1: Special Settings/ American Sign Language

Provides an opportunity to apply knowledge and skill in an actual child development setting. Students will observe and assess children's behavior; facilitate free play; implement adult- directed learning experiences; and maintain professional relationships. (Prerequisite(s): Completion of all CDEV ASL courses and instructor approval) 2C/0/0/2

CDEV 2600 Organizational Leadership and Management

The student will discuss personal and professional reasons for becoming a teacher, ways to advocate in this profession and will develop a plan for continuous education and professional development. The student will join a professional organization and attend a professional conference. Students will improve skills in working with others by learning strategies for team building, coping with stress, and problemsolving. Students will study professional ethics and procedures for evaluating staff. (Prerequisite(s): Completion of certificate level coursework) 2C/2/0/0

CDEV 2620 Practicum 2

Provides an opportunity to apply knowledge and skill in early childhood settings. Students implement a variety of learning experiences that are developmentally appropriate for and culturally sensitive to two different age groups and program settings. (Prerequisite(s): Successful completion of all other required AAS coursework and Instructor approval) 4C/0/0/4

CDEV 2640 Curriculum Planning

Provides an advanced level of curriculum planning. Emphasis is on organizing, implementing, and evaluating developmentally appropriate curricula. (Prerequisite(s): Completion of certificate level coursework and instructor approval) 3C/3/0/0

CDEV 2800 Child Development Administration

A course for directors, coordinators, or lead teachers in child development programs that provides an overview of managing a child development organization with emphasis on facilities, health and safety, risk management, record keeping, marketing and administrative styles. (Prerequisite(s): Child Development Careers Diploma and instructor approval) 3C/3/0/0

CDEV 2820 Child Development Financial Management

Provides students interested in child development administration with an introduction to budgeting, financial management and financial record keeping in child development programs. Specific topics include: start-up costs, determining utilization rates, setting/collecting parent fees, identifying break-even points, preparing financial statements and fundraising. (Prerequisite(s): Child Development Careers Diploma and instructor approval) 3C/2/1/0

CDEV 2840 Child Development Staffing & Supervision

Offers students an opportunity to develop advanced level skills in hiring, training, evaluating, coordinating and supervising staff in child development settings. (Prerequisite(s): Child Development Careers Diploma and instructor approval) 3C/2/1/0

CDEV 2860 Advanced Internship-Administration of Child Development Setting

Provides an opportunity for advanced-level child-development professionals to apply knowledge and skill in the administration of a child development setting. (Prerequisite(s): Child Development Careers Diploma and instructor approval) 1C/0/0/1

Chinese Language

CHIN 1710 Beginning Chinese 1

This course introduces Mandarin Chinese language based on the knowledge of basic skills and strategies in listening, speaking, reading and writing in a general Mandarin speaking environment. Learners will acquire the language through a theme-based and function-based approach, but also by focusing on grammar whenever necessary. China's culture and history are also important components of the course. At the end of the term, students are expected to be able to communicate some basic personal information, both oral and written. They will read and write simplified Chinese characters and learn some key components of Chinese culture and general knowledge of Chinese history. The course will also prepare students for further studies in Chinese. This course consists of five hours per week of instruction and in-class discussion in addition to homework, tape assignments, and on-line practice. (Prerequisite(s): READ 0722 Reading 2 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 8) 5C/4/1/0

CHIN 1720 Beginning Chinese 2

As the second part of the Accelerated Modern Chinese course series, this course is designed for heritage speakers of Chinese or those who have completed CHIN 1710 at Saint Paul College. The purpose of this course is to help students improve their ability in listening, speaking, reading, and writing Chinese. It particularly aims to help students develop more sophisticated vocabulary and enhance reading and writing ability in Chinese. As with CHIN 1710, the course consists of five hours per week of instruction and in-class discussion, homework, tape assignments and online practice. (Prerequisite(s): CHIN 1710 with a grade of "C" or better or instructor approval) (MnTC: Goal 8) 5C/4/1/0

CHIN 1790 Special Topics in Chinese

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goal 8) Variable credits 1-6

CNC Technology

CNCT 1410 Introduction to Manufacturing Processes

This course covers a general orientation, an overview of careers, shop safety, measurement, precision tools, band saw theory, lathe theory, drills and vertical milling machines. This course will include additional theory and online assignments. This is a hybrid course. 4C/4/0/0

CNCT 1420 Engineering Drawings

This introductory course covers view orientation, section views, surface finish, dimensioning, part tolerance, and machining symbols. This course will include additional theory and online assignments. This is a hybrid course. 4C/4/0/0

CNCT 1430 Materials Processes 1

This introductory lab covers shop safety, bench work, drill presses, lathe operations, and vertical milling. 4C/1/3/0

CNCT 1431 Materials Processes 2

This course covers intermediate lathe and milling machines. Basic surface grinding will be introduced. Work efficiency and inspection of finished work will be stressed. (Prerequisite(s): CNCT 1430 or concurrent) 4C/1/3/0

CNCT 1705 Introduction to CNC Machining

This course will introduce the basics of CNC machining, including understanding G and M codes. 4C/3/1/0

CNCT 1710 Shop Calculations

The subject matter of this course progresses from the arithmetical operations through measurement systems, basic algebra for shop formula solving skills, practical geometry with shop examples, and applications and trigonometry, emphasizing its valuable use in the shop and in the trade. 2C/2/0/0

CNCT 1720 Geometric Dimensioning

This course covers the principles, application, and interpretation of geometric dimensioning and tolerance as per ASME-Y14.5M 1994 Standards. (Prerequisite(s): CNCT 1420) 2C/2/0/0

CNCT 1730 CNC 1

This course covers the basic operation and setup skills using G & M code format. (Prerequisite(s): CNCT 1431) 4C/2/2/0

CNCT 1731 CNC 2

This course covers the setup and operation of CNC machine tools. Also includes advanced NC/CNC programming and operation on machining centers. (Prerequisite(s): CNCT 1730 or concurrent) 4C/2/2/0

CNCT 1740 Design Principles

Introduces production machining processes and includes calculations and methods for work holding setups of various piece parts. (Prerequisite(s): CNCT 1420) 4C/4/0/0

CNCT 2410 Tool Design

Analysis and design fundamentals required to design and build a mold. Content includes types of molds, plastic molding characteristics, metal alloy castings, design principles, and molding methods. This course will include additional theory and online assignments. This is a hybrid course. (Prerequisite(s): CNCT 1731) 4C/4/0/0

CNCT 2420 Mechanical Systems/EDM

The focus of this web-enhanced course will be on manufacturing design, production processes, and Electrical Discharge Machining. Also included will be production tool design projects, related theory in quality, lean manufacturing, abrasives, mechanical systems, inspection procedures, welding and CNC controls. This is a hybrid course. (Prerequisite(s): CNCT 1731) 4C/4/0/0

CNCT 2430 Mold/Plastic Technology

This is an introductory course on the design and construction principles of basic molds. CNC machines along with manual mills, lathes, surface grinders, jig bores, drill presses and injection molding machines are used in a laboratory setting to produce a plastic injection mold. (Prerequisite(s): CNCT 1731) 4C/1/3/0

CNCT 2440 Manufacturing Applications

Product development fundamentals including design, research, cost estimating and manufacturing of a metal stamped product. This course will also include CNC machining. (Prerequisite(s): CNCT 1731) 4C/1/3/0

CNCT 2510 Mechanical Applications

This course covers advanced tool room machining operations using vertical mills, lathes, surface grinders, as well as part inspection. (Prerequisite(s): CNCT 1431) 4C/2/2/0

CNCT 2520 CAD

This introductory course will use SolidWorks as the CAD software of instruction and application. Basic construction of solid modeling, engineering drawings, and assemblies will be covered. 4C/4/0/0

CNCT 2530 CNC Lathe

This course covers the programming, set-up, and operation CNC turning centers. This course will include additional theory and online assignments. This is a hybrid course. (Prerequisite(s): CNCT 1430, CNCT 1431) 4C/4/0/0

CNCT 2540 Computer Aided Manufacturing

This course covers computer aided manufacturing using Mastercam software. Students will learn to create geometry, toolpaths, and CNC files for a series of projects. The use of PC based CAM software to generate numerical control programs is included. (Prerequisite(s): CNCT 1730, CNCT 1731 or concurrent) 4C/2/2/0

CNCT 2550 Industry Internship

This industry internship will expose the student to manufacturing, and will provide operator training and workplace safety. 4C/0/0/4

College & Career Planning Success Strategies

CSCR 1403 Choosing Your Career Path

This course focuses on the career planning and decision-making process. Students will acquire skills in identifying potential career areas based on personal assessments and in utilizing career decision-making and goal-setting strategies to determine a career choice. Students will utilize various career resources, such as online sites, to assist in the decision-making planning process. 1C/1/0/0

CSCR 1405 College Success Strategies and Career Resources

This course is designed to help students succeed in college and develop career-planning skills. Students will learn to study more effectively. Focused topics will include time management, study strategies, note-taking, test-taking, mnemonic devices and college resources. Students will gain knowledge of career resources and the career-planning process. 2C/2/0/0

CSCR 1406 Study Skills and College Success Strategies

This course is designed to help students, identify and develop necessary skills and strategies to enhance study skills and college success. Focused topics will include college expectations; overcoming barriers to success; study skills such as time management and notetaking; learning styles; college resources; and maintaining physical, mental, and emotional health. 2C/2/0/0

Computer Science

CSCI 1400 Introduction to Microcomputers

This course is an introductory course intended to give beginning students an understanding of microcomputers. Microcomputer concepts and applications will be covered. The concepts presented will help a student learn how the microcomputer works. Students will learn current hardware configurations and software, such as business applications, through hands-on use of the computer. The course is designed to bring students up to speed quickly in the use of information technology while providing an in-depth understanding of how the technology is implemented. The course is not intended for CSCI majors. 3C/3/0/0

CSCI 1410 Computer Science and Information Systems

Designed to introduce computer information systems to students in the fields of computer science and information science. The course will cover the basic architecture and design of digital computers and the software that runs on them. Special emphasis will be placed on the technical aspects of the field of computer science and a significant amount of time will be spent developing a sound analytical understanding of the field. Topics such as machine architecture, binary arithmetic, algorithm development, data structures, file organization, database design, systems analysis, data communication and systems software will be covered. Students must have a sound preparation in mathematics through basic algebra. (Prerequisite(s): Same as program entry requirements for Programming/Network AAS degree) 4C/4/0/0

CSCI 1423 Computer Networking 1 - Client

This course introduces students in networking programs to workstation-based operating system design, implementation and administration. The primary components of workstation operating systems such as process management, memory management systems, file systems, security subsystems, I/O control subsystems, etc. are reviewed at the conceptual level. UNIX and Windows based operating systems are used as implementation case studies. Students are expected to become proficient with the ideas inherent in operating system design and how these ideas are implemented in both UNIX and Windows based workstation operating systems. Workstation-based peer-to-peer networking is reviewed in the context of both Windows and UNIX based networking. (Prerequisite(s): Same as program entry requirements for Programming/Network AAS degree) 4C/4/0/0

CSCI 1440 Networking Fundamentals

This course provides an introduction to computer networking. The material in the course follows the OSI networking model as a basis for coverage of the entire field of computer networking. Topics include the physical, data link, network, transport, session, presentation and application layers of the OSI model as they are implemented in current network technologies. Students will use a very hands-on approach learning physical networking as well as logical networking tasks. The course makes extensive use of Cisco networking hardware and software as well as Cisco learning materials. With extensive outside study and review students in this course may become prepared to become certified as Network+ level technicians. (Prerequisite(s): Same as program entry requirements for Programming/Network AAS degree) 4C/4/0/0

CSCI 1450 Web Fundamentals/HTML

This course provides students with a thorough grounding in the World Wide Web, a fundamental knowledge of HTML and a basic understanding of Internet technical architectures. Students learn about search engines, Web servers, scripting, protocols, ISPs and other Internet technologies. Technical architecture topics include the study of networks, Internet protocols, Internet servers, firewalls, security and general issues in conducting ecommerce. Students will design and program HTML Web pages, tutorials and publish a Web site project. (Prerequisite(s): Same as program entry requirements for Programming/ Network AAS degree) 4C/4/0/0

CSCI 1470 Web Design

This course explores the principles of Web design theory and practice. Concepts related to the look and feel of the client-side of the World Wide Web are emphasized. Topics include the design of a graphical user interface, site content, organization and navigation, with emphasis on the human interface. Also included are Web "usability" issues. Color palettes, font selection and use of animation are discussed. The use of HTML layout concepts and software such as PhotoShop and Dreamweaver are introduced. (Prerequisite(s): CSCI 1450) 4C/4/0/0

CSCI 1523 Introduction to Computing and Programming

Concepts This course is focused on computational problem solving. Students must engage in problem-solving tasks such as clarifying any ambiguous aspects of the problem definition, decomposing the problem into subproblems, deciding which computer-related problem solving strategies (such as recursion) might be useful in solving the problem, constructing a solution, implementing the solution as a computer procedure, and verifying that the solution is correct (including modifying it when it is not). (Prerequisite(s): CSCI 1410 or instructor approval) 4C/4/0/0

CSCI 1524 Introduction to Algorithms and Data Structures

This course is focused on the use of algorithms and data structures to solve problems. Students will solve various problems using appropriate software design methods and software tools. For example, students need to decide which problem solving strategies (such as divide and conquer) might be useful for a specific problem, construct a solution, design appropriate data types and algorithms, and verify the correctness of the solution. (Prerequisite(s): CSCI 1523) 4C/4/0/0

CSCI 1531 Objective-C Programming

This is a rigorous first course in Objective-C programming which is the primary development language for OSX and iOS devices. The course begins with C language features and quickly moves to the object-oriented extensions provided by Objective-C. Objects, classes, and messages are explored in depth. Concepts include: inheritance, polymorphism, dynamic typing, categories, protocols, and memory management. The Cocoa application framework is studied and the XCode development environment is used extensively. Previous exposure to C, C++, or Java is assumed. (Prerequisite(s): CSCI 1410 or instructor approval) 4C/4/0/0

CSCI 1533 ANSI C Language Programming

This course is an intermediate introduction to Language C and the tools used to develop executable programs. The course reviews elementary C programming concepts at a rapid pace and continues with Language C development using simple data structures such as arrays and linked lists. This is followed by a detailed review of how memory is managed in Language C, pointers, referencing and dereferencing, C structures and abstract data types. Students should expect that all programming with be done at the command line using command line editors and Linux as the operating system. (Prerequisite(s): CSCI 1410) 2C/2/0/0

CSCI 1541 Java Programming

This course covers the syntax of the Java programming language; object-oriented programming with the Java programming language; creating graphical user interfaces (GUIs), exceptions, file input/output (I/O), threads and networking. Programmers familiar with object-oriented concepts can learn how to develop Java applications. (Prerequisite(s): CSCI 1410 or instructor approval) 4C/4/0/0

CSCI 1542 Java Programming 2

This course provides students with first-hand experience using object-oriented analysis and design and Java to create a distributed, multi-tier application. Students use graphical user interface (GUI) design principles and network-communications capabilities to code a functional Java application that interacts with a networked database server. (Prerequisite(s): CSCI 1541 or instructor approval) 4C/4/0/0

CSCI 1550 Database Management Fundamentals

This course covers information models and systems; database query languages; object-oriented and relational database design; transaction processing; distributed databases; data modeling; normalization; and physical database design. The relational model is studied in-depth and students are expected to develop proficiencies in the design and implementation of databases using it. Students will spend a significant portion of the course studying SQL. Students are expected to become proficient in the use of SQL and the implementation database typically used for this course is MYSQL. This course is based on ACM specifications for a first course in Database Systems. (Prerequisite(s): CSCI 1410 or instructor approval) 4C/4/0/0

CSCI 2410 Management Information Systems

This course provides elementary concepts to the management of information systems. The course is designed to allow the student of management information systems to evaluate, design and implement information processing systems that support the business enterprise. The purpose of the course is to understand the underlying principles of information systems for different management functions from the business perspective. (Prerequisite(s): CSCI 1550 or instructor approval) 3C/3/0/0

CSCI 2420 Computer Security

This course is a comprehensive introduction to computer security. The course is an in-depth introduction the concept of cyber crime and security in networks and the internet. It presents the conceptual frameworks of computer security assessment. Topics covered include denial of service attacks, malware, viruses, trojan horses, worms, encryption, industrial espionage, internet fraud, cyber terrorism and information warfare. The course makes extensive use of in class and Internet-based laboratories within which computer security scenarios are implemented and strategies for their design and operation are reviewed. Students taking this course should have a background in computer networking and a thorough understanding of client/server networking. With extensive outside study and review students in this course may become prepared to become certified as Security+ level technicians. (Prerequisite(s): CSCI 2451 and CSCI 2461; or instructor approval) 4C/4/0/0

CSCI 2440 Client Side Programming 1

This course introduces JavaScript programming and the skills needed to create dynamic, client-side web pages. The basics of JavaScript programming are covered, including: basic scripting, control statements, functions, arrays, and objects. Students will then explore the DOM (Document Object Model), JavaScript event handling, DHTML (Dynamic HTML) and select advanced topics. Class sessions include hands-on work and lectures. This course assumes a working knowledge of HTML and a previous introduction to CSS (Cascading Style Sheets). (Prerequisite(s): CSCI 1450 or instructor approval) 4C/4/0/0

CSCI 2442 Server Side Programming

This course is designed for students interested in developing the serverside skills needed to create dynamic, data-driven websites. This course uses the popular server-side programming language PHP to interact with SQL databases. Fundamental techniques are covered, including: connecting to a database and performing basic database operations to create, read, update, and delete data. HTML form elements are reviewed and then form processing is discussed as well as writing functions for data validation. Server- side scripting is used to generate dynamic web pages. Students will learn how to authenticate users, manage user requests, and maintain user state through sessions and cookies. (Prerequisite(s): CSCI 1450 or instructor approval) 4C/4/0/0

CSCI 2451 Computer Networking 2 – Server

This course is designed to give the student of networking an introduction to client\server networking. Students in this course will be expected to install and configure both the server operating system and clients connecting to the server. At the completion of the course students understand the basics specifying, designing, installing, configuring and maintaining a client\server network. Microsoft Client and Server Software is utilized as the teaching platform and students are expected to become proficient in the use to this commercial platform. Specialized topics include network security, name resolution system, (DNS, DNS&WINS), network access protection, (NAP), file services, print services, Active Directory service, etc. A significant amount of time in the course is dedicated to laboratory exercises and hands-on experience. With extensive outside study and review successful students in this course may become prepared to become certified as Microsoft Systems Administrator. (Prerequisite(s): CSCI 1423 or instructor approval) 4C/4/0/0

CSCI 2452 Cloud Computing

This course introduces software and technologies used to create and manage cloud computers and access to them. Both public cloud computing services such as Amazon Web Services and private cloud computers will be reviewed. Students will work directly with servers and install and configure cloud systems during the course. This course is conducted in a hands-on manner and class sessions typically will be dedicated to hands-on exercise. (Prerequisite(s): CSCI 2451 and CSCI 2461; or instructor approval) 4C/4/0/0

CSCI 2453 Computer Virtualization

This course introduces software and technologies used to create virtual computers. Proprietary virtualization software such as VMWare and Microsoft Virtualization are covered as well as open source projects such as Xen and virtualbox. Students will work directly with servers and install and configure each of the virtualization systems during the course. This course is conducted in a hands-on manner and class sessions typically will be dedicated to hands-on exercises. (Prerequisite(s): CSCI 2451 and CSCI 2461; or instructor approval) 4C/4/0/0

CSCI 2461 Computer Networking 3 – Linux/Unix

This course provides an in-depth study of UNIX based operating systems administration and networking. The installation configuration and management of UNIX-based servers is covered in-depth. The course also covers the configuration of UNIX-based operating systems in a network environment. Students will spend a significant amount of the classroom meeting time conducting hands-on laboratory exercises. With extensive outside study and review students in this course may become prepared to become certified as Linux systems administrators. (Prerequisite(s): CSCI 1423 or instructor approval) 4C/4/0/0

CSCI 2463 XML Programming

This course is designed to give the student both the theoretical foundation and hands-on skills required to begin using XML (eXtensible Markup Language). It begins by examining what XML is and what it can be used for. Early topics include elements and attributes, the use of namespaces, defining valid XML documents and the use of DTDs and Schemata to constrain XML, particularly as used in B2B (business-to-business) applications. Students learn about the DOM (Document Object Model), an object-oriented API for working with XML. XSLT (eXtensible Stylesheet Language for Transformations), Templates and Xpath are also covered. Advanced topics include XML and databases, SOAP (the Simple Object Access Protocol), the SAX (Simple API for XML) interface and others. (Prerequisite(s): CSCI 1450 or instructor approval) 4C/4/0/0

CSCI 2465 Computer Networking 4 – Infrastructure

This course introduces networking students to the core infrastructure components of local, campus and wide area networks. The design, installation and configuration of routers, switches and other networking infrastructure devices is covered in-depth. Routing protocols and concepts are a primary focus of study in the course. The course makes extensive use of Cisco materials and equipment for routing protocols and concepts. This course assumes that the students have a background through experience, or coursework, that encompasses a fundamental understanding of networking. With extensive outside study and review, students in this course may become prepared to become certified Cisco networking technicians. (Prerequisite(s): CSCI 1440 or instructor approval) 4C/4/0/0

CSCI 2466 J2EE-JSP and Servlets

This is a first course in using Java technology for the development of applications deployed in a client/server environment. The course introduces the concept of a Java application server and teaches the student how to install and configure an application server for use in developing and deploying distributed Java applications. Students then are introduced to elementary servlet programming, Java server pages [JSP] development and deployment, Java standard template library [JSTL] and an introduction to Java server faces [JSF]. Students will then develop server-based applications which access data stored in a database management system via the Java database connector [JDBC]. Students in this course are expected to have a background in introductory Java programming. (Prerequisite(s): CSCI 1450 and CSCI 1541; or instructor approval) 4C/4/0/0

CSCI 2469 Advanced Programming Principles

The class is focused on principles that underlie the structure and analysis of programs. Students will learn different programming styles, such as those based on functional programming, search-based programming, and concurrent programming, and will learn to program over symbolic structures. Applications will allow students to learn about modular development and language principles to support modularity. (Prerequisite(s): CSCI 1524 and CSCI 2460) 4C/4/0/0

CSCI 2475 A+ Hardware/Operating System Preparation

The course provides an in-depth review of PC hardware, Operating Systems and the application software that they run. The material encompasses the body of knowledge outlined by CompTIA for their certification as an A+ computer technician. (Prerequisite(s): CSCI 1440 or instructor approval) 4C/4/0/0

CSCI 2560 Introduction to Computer Games

This course deals in an elementary and introductory manner with the design and creation of computer games. Students will be expected to develop computer games from conception through implementation in this course. Game programming in this course will focus on "interactive" gaming rather than strategic gaming. Students are expected to have a familiarity with programming before entering this course. The work for this course will include a variety of projects. (Prerequisite(s): CSCI 1410 or instructor approval) 4C/4/0/0

CSCI 2570 Machine Architecture and Organization

This course covers basic hardware and software structure; I/O and main memory organization; internal representation of data; addressing methods; program controls; microprocessor families; multiprocessors; concurrent programming and synchronization; and RISC architectures. Students in this course will become proficient in assembly level programming and will extend this knowledge to higher level languages such as language C. Students are expected to devote a significant amount of time in analyzing designing and implementing low-level software for this platform. The course is designed around the specifications published by the ACM and IEEE for a course on Computer Organization and Architecture. (Prerequisite(s): CSCI 1521 or instructor approval) 4C/4/0/0

CSCI 2597 Special Topics in Computer Science

This course provides learning experiences that meet the needs of students, major programs, and the College in the area of computer science. (Prerequisite(s): Instructor approval) Variable credits 1-6

CSCI 2621 Ruby on Rails

This course introduces the Ruby on Rails framework for developing web applications. Ruby is considered a next generation language for developing applications for the World Wide Web. The combination of the power of the Ruby language and the flexibility and extensibility of the Rails framework are examined. The model-view controller paradigm is utilized for developing database-driven websites. The course assumes familiarity with HTML and knowledge of client side programming. This is a hands-on course designed for students to develop functioning database driven websites. (Prerequisite(s): CSCI 2442 or instructor approval) 4C/4/0/0

CSCI 2622 Client Side Programming 2

This course is an advanced course in JavaScript programming for the client. It covers key Web 2.0 technologies such as AJAX (asynchronous JavaScript and XML) used to create rich, interactive web applications. The course begins with the elementary aspects of AJAX programming and then focuses on popular AJAX toolkits and JavaScript frameworks. It introduces JSON (JavaScript Object Notation) as an alternative format for data interchange. It also presents advanced JavaScript topics and techniques. The key elements of the course are hands-on exercises utilizing AJAX tools and techniques to develop interactive Web sites. This course assumes a previous introduction to JavaScript as well as previous exposure to database-driven website development. (Prerequisite(s): CSCI 2440 or instructor approval) 4C/4/0/0

CSCI 2628 Programming iOS Devices

This course introduces the software, tools and techniques necessary to program popular iOS Devices from the Apple computer company. Students will learn how to write programs that can run on the iPhone, iTouch and iPad. The course will introduce the software development kits for iOS Devices, Xcode development tools, Objective-C, and the Cocoa graphical library. Students will develop a series of applications during the course. Students in this course are expected to have previous programming experience in language C or C++. (Prerequisite(s): CSCI 1531 or instructor approval) 4C/4/0/0

CSCI 2629 Programming Android Devices

This course introduces the software, tools, and techniques necessary to program the mobile devices that utilize the Android operating system and its supporting software development environment. Students will learn how to write programs that can run on any device supporting the Android environment. The course will introduce the software development kits for Android devices, Eclipse based development tools, Java ME, and the supporting graphical library. Students will develop a series of applications during the course. Students in this course are expected to have previous programming experience in the Java programming language. (Prerequisite(s): CSCI 1541 or instructor approval) 4C/4/0/0

CSCI 2630 Metaverse Application Development

This course covers the conceptualization, design, development and deployment of a programming application that will execute as part of a Metaverse environment. The focus of the course is to add behavior to the virtual world we term a Metaverse. The Java programming languages are used in the course and programming applications will be developed in this language. The term project, which will be a large part of the course, will be designed conceptually, programmed in Java and deployed in a metaverse. Students are expected to have a background in Java programming and strong interest in multiuser game programming. (Prerequisite(s): CSCI 1541 or instructor approval) 4C/4/0/0

CSCI 2632 Metaverse Graphics Programming

This course is a three-dimensional graphics application programming course which uses the OpenGL library as a graphics programming library standard. Students in this course will be expected to program three-dimensional objects, both active and passive, that will be placed in a three-dimensional Metaverse. Students are expected to develop advanced graphics applications that utilize knowledge of algebra, geometry and physics. Programs will be deployed into a Metaverse environment and a significant part of the course is the development and successful deployment of such applications. (Prerequisite(s): CSCI 1541 and CSCI 2630; or instructor approval) 4C/4/0/0

CSCI 2690 Computer Science Internship

A cooperative work-student program between Saint Paul College Computer Science Program and a business facility to allow the student an employment-like experience. (Prerequisite(s): Instructor approval) Variable 1-8 credits

Cosmetology, Nail Care and Esthetician Core Courses

CHSN 1405 Preclinic Hair Care 1

Provides students with the opportunity to develop basic hair skills with a focus on trichology, shampoo, conditioning, cutting and finishing hair techniques. (Prerequisite(s): Completion of or concurrent with CHSN 1410, CHSN 1420, CHSN 1445 and CHSN 1450) 3C/0/3/0

CHSN 1406 Preclinic Hair Care 2

Provides students with the opportunity to continue to develop hair service skills with a focus on shampooing, conditioning, styling, long hair, wigs and extensions. (Prerequisite(s): Completion of or concurrent enrollment in CHSN 1405) 3C/1/2/0

CHSN 1407 Preclinic Nail Care

Provides an introduction to nail care including manicuring, pedicuring and artificial nails. (Prerequisite(s): Completion of or concurrent enrollment in CHSN 1410 and CHSN 1420) 3C/1/2/0

CHSN 1409 Preclinic Chemical Control

Provides an introduction to cosmetology chemicals and their applications. This includes curl reformation, permanent waving, soft curl perming and chemical relaxing. (Prerequisite(s): Completion of or concurrent enrollment in CHSN 1405 and CHSN 1406) 3C/1/2/0

CHSN 1410 Preclinic Introduction

Provides an introduction to cosmetology, nail technology and skin care, including professional image, Minnesota laws and rules, safety and sanitation. (Prerequisite(s): High School Diploma or a GED) 4C/3/1/0

CHSN 1413 Preclinic Hair Color

Provides an introduction to temporary, demi-permanent, permanent and de-colorization hair color services. (Prerequisite(s): Completion of or concurrent enrollment in CHSN 1409) 3C/1/2/0

CHSN 1418 Advanced Hair Care

Provides advanced skill training, color and chemical reformation in hair cutting and styling. (Prerequisite(s): Completion of or concurrent enrollment in CHSN 1413) 4C/1/3/0

CHSN 1420 Body Systems and Diseases

This course presents cells, tissue and organs as they relate to the histology and physiology of the skin, hair and nails and how they work together to form body systems. Major body systems will be explained, along with their impact on the skin, hair and nails. Students will study skin, hair and nail diseases and disorders in order to differentiate between treatable disorders and those that require referral to a physician. (Prerequisite(s): Enrollment in Cosmetology, Nail Technician or Esthetician Program) 4C/3/1/0

CHSN 1431 Clinic 1 for Cosmetology Majors

This course is designed to provide clinical practice and performance of previously learned hair, skin and nail skills. This course provides the necessary hours to complete hair, skin and nail care quotas as mandated by the State of Minnesota and to develop proficiency in hair, skin and nail services. (Prerequisite(s): CHSN 1406) 3C/0/3/0

CHSN 1432 Clinic 2 for Cosmetology Majors

This course is designed to provide clinical practice and performance of previously learned hair, skin and nail skills. This course provides the necessary hours to complete hair, skin and nail care quotas as mandated by the State of Minnesota and to develop proficiency in hair, skin and nail services. (Prerequisite(s): CHSN 1406) 3C/0/3/0

CHSN 1433 Clinic 3 for Cosmetology Majors

This course is designed to provide clinical practice and performance of previously learned hair, skin and nail skills. This course provides the necessary hours to complete hair, skin and nail care quotas as mandated by the State of Minnesota and to develop proficiency in hair, skin and nail services. (Prerequisite(s): CHSN 1406) 3C/0/3/0

CHSN 1434 Clinic 4 for Cosmetology Majors

This course is designed to provide clinical practice and performance of previously learned hair, skin and nail skills. This course provides the necessary hours to complete hair, skin and nail care quotas as mandated by the State of Minnesota and to develop proficiency in hair, skin and nail services. (Prerequisite(s): CHSN 1406) 3C/0/3/0

CHSN 1435 Clinic 5 for Cosmetology Majors

This course is designed to provide clinical practice and performance of previously learned hair, skin and nail skills. This course provides the necessary hours to complete hair, skin and nail care quotas as mandated by the State of Minnesota and to develop proficiency in hair, skin and nail services. (Prerequisite(s): CHSN 1406) 3C/0/3/0

CHSN 1436 Clinic 6 for Cosmetology Majors

This course is designed to provide clinical practice and performance of previously learned hair, skin and nail skills. This course provides the necessary hours to complete hair, skin and nail care quotas as mandated by the State of Minnesota and to develop proficiency in hair, skin and nail services. (Prerequisite(s): CHSN 1406) 3C/0/3/0

CHSN 1442 Clinic 1 for Estheticians

This course is designed to provide clinical practice of previously learned skin care skills. (Prerequisite(s): CHSN 1420, CHSN 1445 and CHSN 1450 or concurrent enrollment) 4C/0/4/0

CHSN 1443 Clinic 2 for Estheticians

This course is designed to provide clinical practice of previously learned skin care skills. This course provides the necessary hours to complete skin care quotas as mandated by the State of Minnesota. (Prerequisite(s): Students must have 480 clock hours and have completed all preceding courses in the Esthetics program, CHSN 1442) 4C/0/4/0

CHSN 1445 Cosmetic Chemistry and Makeup Applications

Chemistry is a science that deals with the composition, structure and properties of matter and how matter changes. This course covers the composition of product ingredients, changes produced by cosmetic products, color theory, make up application techniques and temporary hair removal (Prerequisite(s): CHSN 1410, CHSN 1420, concurrent enrollment or within the same semester) 4C/3/1/0

CHSN 1450 Skin Analysis and Massage

Students will learn to greet customers and to consult in a professional manner. Students will learn to perform draping, skin analysis and proper massage techniques according to client's skin type. Students will learn, in a supervised setting, care and proper use of esthetic equipment. Emphasis is on maintaining safety. (Prerequisite(s): CHSN 1410, CHSN 1420 and CHSN 1445, concurrent enrollment or within the same semester) 4C/1/3/0

CHSN 1451 Salon Operations 1 for Cosmetology/ Nail Technician Majors

Provides students with additional time to complete the required services and/or hours for licensure. (Prerequisite(s): Completion or concurrent enrollment in CHSN 1435 or CHSN 1431 or 1461) 1C/0/1/0

CHSN 1452 Salon Operations 2 for Cosmetology/ Nail Technician Majors

Provides students with additional time to complete the required services and/or hours for licensure. (Prerequisite(s): Completion or concurrent enrollment in CHSN 1435 or CHSN 1431 or 1461) 2C/0/2/0

CHSN 1453 Salon Operations 3 for Cosmetology/ Nail Technician Majors

Provides students with additional time to complete the required services and/or hours for licensure. (Prerequisite(s): Completion or concurrent enrollment in CHSN 1435 or CHSN 1431 or 1461) 3C/0/3/0

CHSN 1454 Salon Operations 4 for Cosmetology/ Nail Technician Majors

Provides students with additional time to complete the required services and/or hours for licensure. (Prerequisite(s): Completion or concurrent enrollment in CHSN 1435 or CHSN 1431 or 1461) 4C/0/4/0

CHSN 1455 Salon Operations 5 for Cosmetology/ Nail Technician Majors

Provides students with additional time to complete the required services and/or hours for licensure. (Prerequisite(s): Completion or concurrent enrollment in CHSN 1435, or CHSN 1431 or 1461) 5C/0/5/0

CHSN 1456 Salon Operations 6 for Cosmetology/ Nail Technician Majors

Provides students with additional time to complete required services and/or hours for licensure. (Prerequisite(s): Completion or concurrent enrollment in CHSN 1435 or CHSN 1431 or 1461) 6C/0/6/0

CHSN 1461 Clinic 1 for Nail Technicians

This course provides students with an opportunity to develop the practical skills necessary in basic nail care and to complete required services and hours for licensure. (Prerequisite(s): CHSN 1407) 3C/0/3/0

CHSN 1470 Sanitation for Hair Braiders

This course presents safety issues and sanitation principles practiced in the service of hair braiding. 2C/2/0/0

CHSN 1510 Advance Skin Treatments

This course presents the theory of advanced skin treatments offered

in a medical setting under the supervision of a Physician. Included will be the theoretic knowledge of therapeutic peeling of the skin through use of Lasers, permanent hair reduction using lasers, cellular stimulation through the use of Light Emitting Diodes, the therapeutic application of Ultrasound and Micro-current use in both skin and body applications. 3C/3/0/0

CHSN 1512 Pharmaceutical Grade Chemical Peels

Identification of pharmaceutical drugs/ingredients and their effect on the skin or counteractions with other drugs will be covered. Course will provide knowledge of application and depths of pharmaceutical grade chemical peels offered in a medical setting under the supervision of a Physician. 3C/3/0/0

CHSN 1514 Legal Risk Management for Estheticians

This course will cover risk, risk management, and professional liability in relation to estheticians providing services in a medical office. Client health and safety as well as personal health and safety will be addressed. Additional topics covered will include OSHA and HIPPA guidelines, scope of practice, liability insurance, client medical and lifestyle history and client expectations. 2C/2/0/0

CHSN 1520 40 Hour Refresher

This 40 hour refresher course is for individuals who do not have enough hours of experience in the past 3-year licensing period and wish to renew their individual cosmetology license. Must present MN Cosmetology license to the instructor. 2C/2/0/0

CHSN 1522 Nail Technician Refresher Course

This 35 hour refresher course is for individuals who do not have enough hours of work experience in the past 3-year licensing period and would like to renew their individual manicuring license. Must present nail technician license to the instructor. 2C/1/1/0

CHSN 1551 Salon Operations 1 for Estheticians

This course gives students additional time to complete the required services and/or hours for licensure. (Prerequisite(s): Completion or concurrent enrollment in CHSN 1443) 1C/0/1/0

CHSN 1552 Salon Operations 2 for Estheticians

This course gives students additional time to complete the required services and/or hours for licensure. (Prerequisite(s): Completion or concurrent enrollment in CHSN 1443) 2C/0/2/0

CHSN 1553 Salon Operations 3 for Estheticians

This course gives students additional time to complete the required services and/or hours for licensure. (Prerequisite(s): Completion or concurrent enrollment in CHSN 1443) 3C/0/3/0

CHSN 1565 155 Hour Reactivation Course

This course provides 155 hours of the theory and practical requirements for reactivating a cosmetology license. Must have a MN Cosmetology license that is inactive or expired by more than 3 years and must present it to the instructor. 6C/3/3/0

CHSN 1585 Esthetics Refresher

This course offers the Minnesota Board of Barber and Cosmetology mandated refresher course for licensure requirements or can be taken to expand the cosmetologist's knowledge of the Esthetics field. Refresher students must complete 40 clock hours. Must present cosmetology or esthetician license to instructor. 2C/1/1/0

CHSN 1590 Esthetics Reactivation

This course offers the Minnesota Board of Barber and Cosmetology mandated reactivation course for licensure requirements or can be taken to expand the cosmetologist's knowledge of the Esthetics field. This course includes preparation for the written law examination. Reactivation students must complete 60 clock hours. Must have a MN esthetician license that is inactive or expired by more than 3 years and must present it to the instructor. 3C/2/1/0

CHSN 2411 CIDESCO Exam Student Preparation

The CIDESCO Pre exam class will prepare the CIDESCO student candidate for all aspects of the CIDESCO exam including the facial exam, the body exam, additional subjects and the written exam. (Prerequisite(s): Completion of esthetician curriculum) 3C/0/3/0

CHSN 2430 Minnesota Cosmetology Instructor Renewal

This course will meet the licensing renewal requirement of the Minnesota Board of Cosmetology for Instructor license renewal. It consists of 15 hours of hands-on learning in program clinic, 15 hours of teaching methods in theory classrooms and 15 hours analysis and product knowledge in CHSN 1450 Skin Analysis and Massage and CHSN 1445 Cosmetic Chemistry. 2C/0/2/0

CHSN 2580 Cosmetology Instructor License

This course provides 30 hours of teaching methods for Cosmetology and 8 hours of the laws that support and protect the Cosmetology industry. Must meet Board of Cosmetology Law 2105.0140 and must present a current Cosmetology license to the instructor. 2C/1/1/0

Culinary Arts

CULA 1400 Culinary Basics 1

This course is made up of two units: "Introduction to Culinary Arts" which is designed to allow the student to become familiar with the hospitality industry, our program and the foundation skills necessary to become a foodservice professional, and "Basic Baking" which is designed to allow the student to develop knowledge and skills necessary to work in a professional baking environment. 3C/1/2/0

CULA 1420 Culinary Basics 2

This course is made up of two units: "Basic Pantry and Cold Food Production" which is designed to allow the student to develop knowledge and skills necessary to work in the garde manger and pantry areas in a professional foodservice environment, and "Basic Range and Hot Food Production" which is designed to allow the student to develop knowledge and skills necessary to work in a professional foodservice environment. Foundation stocks, sauces and soups are the major component. Must be taken concurrently with Culinary Basics 1 or have instructor approval. 4C/0/4/0

CULA 1440 Breakfast

Covers the many types of foods usually associated with breakfast/ brunch service. Most of these items will be prepared, served in the class and in a restaurant setting. (Prerequisite(s): CULA 1400 and CULA 1420 or concurrently with CULA 1400) 1C/0/1/0

CULA 1450 Meat Fabrication

Covers the processing of meat, fish and poultry items. Issues of grading, yield, market forms and standards are discussed. Many types of meat, fish and poultry are processed in the class. (Prerequisite(s): CULA 1400 or concurrently with CULA 1400) 2C/0/2/0

CULA 1460 Basic Menu Production

Covers the production of the entire menu. Individual responsibility and teamwork are the cornerstones of successful foodservice and of this course. A new menu will be prepared each day by each team. (Prerequisite(s): CULA 1400 or concurrently with CULA 1400) 2C/0/2/0

CULA 1470 Food Service Sanitation

Develops an understanding of the basic principles of sanitation and safety in order to maintain a safe and healthy environment for the consumer. Optional ServSafe exam provided for certification. 2C/2/0/0

CULA 1480 Nutrition

Covers the fundamentals of nutrition theory taught from the point of view of the chef. Healthy cooking techniques, dietary requirements and current nutritional research is explored. 2C/1/1/0

CULA 1490 Food Service Math

An assessment and review of math skills necessary for foodservice workers. Functions with whole numbers, fractions, decimals and percentages are covered and applied to food service problems. Must be accepted as Culinary Arts major. 2C/2/0/0

CULA 1510 Commercial Bakery Production

Allows students to develop production baking skills to a marketable level. (Prerequisite(s): CULA 1460, CULA 1470, CULA 1480, CULA 1490) 2C/0/2/0

CULA 1520 Commercial Pantry Production

Allows the students to develop marketable production skills in the pantry/cold food area. (Prerequisite(s): CULA 1460, CULA 1470, CULA 1480, CULA 1490) 2C/0/2/0

CULA 1530 Commercial Range Production

Allows students to develop marketable skills in many aspects of hot food preparation in a production kitchen environment. (Prerequisite(s): CULA 1460, CULA 1470, CULA 1480, CULA 1490) 2C/0/2/0

CULA 1535 Catering

This course will allow students to have the opportunity to plan, prepare, serve and clean up a catered function. Another important part of the course will be the opportunity for the students to interface with the customer directly during the service time and the post service evaluation from the students' personal evaluation of the event. (Prerequisite(s): CULA 1460, CULA 1470, CULA 1480, CULA 1490) 1C/0/1/0

CULA 1540 Food Service Supervisory Management

Allows students to prepare for the transition from employee to supervisor by developing human relations and personnel management skills in a foodservice environment. (Prerequisite(s): CULA 1460, CULA 1470, CULA 1480, CULA 1490 or instructor approval) 2C/1/1/0

CULA 1550 Grill/Short Order Cooking

Allows the student to develop marketable production skills in the Grill/ Short Order cooking area. (Prerequisite(s): CULA 1460, CULA 1470, CULA 1480, CULA 1490) 2C/0/2/0

CULA 1560 Food/Beverage/Labor Cost Control

Covers the principles of menu pricing and analysis, budgeting and inventory control systems in foodservice operations. (Prerequisite(s): CULA 1490 or instructor approval) 3C/3/0/0

CULA 1570 Basic Cake Decorating

Allows students to develop cake/pastry decorating skills to a marketable level. (Prerequisite(s): CULA 1400 or instructor approval) 2C/0/2/0

CULA 1600 Professional Introduction to Wine

Review the origins and history of the vine, vineyard calendar, soil and climate, natural hazards, growing regions and major grape varietals of the world. Examine considerations for harvest of grapes, techniques for making still wines (red, white and rose), techniques for making sparkling and fortified wines, processing and aging techniques and the blending process. Explore grape varietals, regulations, history, culture and traditions: USA, France, Italy, Spain/Portugal, Germany, Australia, South America and South Africa. (Prerequisite(s): Must be 21 years or older. Must be taken concurrently with CULA 1610-1640.) 2C/2/0/0

CULA 1610 Flavor Dynamics of Wine

Experience professional wine evaluation based on sensory (visual, organoleptic) traits. Comparison and analysis of world wine regions. Includes an emphasis on the development of a wine vocabulary and sensory description techniques. (Prerequisite(s): Must be 21 years or older. Must be taken concurrently with CULA 1600-1640.) 2C/1/1/0

Course Descriptions

CULA 1620 Professional Wine Service

Allows student to develop professional wine service techniques, wine etiquette, glassware/equipment options, building a relationship with the guest and elements of the guests' aesthetic experience. (Prerequisite(s): Must be 21 years or older. Must be taken concurrently with CULA 1600-1640.) 1C/1/0/0

CULA 1630 Strategies for Pairing Food and Wine

Allows student to analyze the rationale behind successful wine and food pairings and the impact of preparation techniques on wine choice. Learn how to enhance wine and food pairing opportunities and improve menu and wine list compatibility. (Prerequisite(s): Must be 21 years or older. Must be taken concurrently with CULA 1600-1640.) 2C/1/1/0

CULA 1640 Wine Marketing

This course will allow students to review legalities, wine market cycles, wine pricing, developing a wine program, building a wine list and wine storage. An important part of the course is to develop strategies for determining your target market, wine merchandising and promotional opportunities, consumer education and building strong repeat business. (Prerequisite(s): Must be 21 years or older. Must be taken concurrently with CULA 1600- 1640.) 2C/2/0/0

CULA 2410 Restaurant Operations Theory

Requires students to develop marketable skills in the areas of menu planning, menu analysis, production scheduling and recipe interpretation for different menu settings and operations. Must be taken as a block with CULA 2411-2430. (Prerequisite(s): CULA 1550) 2C/2/0/0

CULA 2411 Restaurant Operations Lab 1

Requires students to develop marketable skills in many aspects of hot and cold food preparation in a fine dining environment Must be taken as a block with CULA 2410-2430. (Prerequisite(s): CULA 1550) 3C/0/3/0

CULA 2412 Restaurant Operations Lab 2

Requires students to develop marketable skills in many aspects of hot and cold food preparation in a fine dining environment. Must be taken as a block with CULA 2410-2430. (Prerequisite(s): CULA 1550) 3C/0/3/0

CULA 2420 Service

Covers serving techniques and dining room operations through classroom and laboratory experience in a dining room. Service styles emphasized will be American, family style and buffet. French and Russian styles will be discussed. Must be taken as a block with CULA 2410-2430. (Prerequisite(s): CULA 1550) 2C/0/2/0

CULA 2430 Wine Appreciation and Paring

The advanced culinary student will develop a palate of flavor and aroma profiles, an understanding of food and wine pairing techniques, as well as proper service and wine-making processes. Wine varietals will be professionally sampled and evaluated based upon color, aroma, body and finish in order to cultivate an appreciation for the integral relationship between food and wine. Must be taken as a block with CULA 2410-2420. (Prerequisite(s): CULA 1550 and completion of General Education requirements) 2C/0/2/0

CULA 2440 Ice Carving

Allows students to develop marketable skills in the art and craft of ice carving. (Prerequisite(s): CULA 1570 or instructor approval) 1C/0/1/0

CULA 2450 Advanced Cake and Pastry

Allows students to explore and develop skills in a variety of pastry, confectionery and other food sculpture mediums. Requirements also include the production of a tiered cake. (Prerequisite(s): CULA 1570 or instructor approval) 2C/0/2/0

CULA 2460 Classical Buffet

Allows students to explore concepts and practice techniques necessary to prepare a classical haute cuisine buffet. Emphasis will be placed on the design and presentation of food items. Each student will design and produce two display platters consisting of meat, fish and poultry products with all necessary accompanying items. (Prerequisite(s): CULA 1550 and completion of General Education requirements) 3C/0/3/0

CULA 3630 Artisan Baking

This hands-on course is designed to build proficiency in the preparation of a number of different types of artisan baking of products focusing on products used in restaurants and specialty bakeries, utilizing organic and local ingredients. Discussions will include technique and consistency issues, the role of local & organic ingredients in baking and the baker's responsibility in promoting sustainability. 3C/1/2/0

CULA 3635 Artisan Cheese

This class is designed to illustrate the importance of artisan cheeses and their role in the food world through ancient and modern times. Course topics will include fresh, soft, semi soft, hard, mold ripened, and wash rind cheeses. Students will learn hands on cheese making and food pairing techniques that utilize local farms and artisan foods. The class will compare and discuss the regional cheeses of America, Europe, the Mediterranean, and different cultures abroad. 3C/1/2/0

CULA 3641 Charcuterie

This class is a thorough introduction into the art of charcuterie and condiment making with an emphasis on product utilization. Students will learn various preservation techniques including brining and curing, working with smoked products, marinades, pickled products, relishes, cold sauces, mustards, bacons and hams within specific sanitary confines. Discussions will include technique and sanitation issues as well as the role of local & organic procurement of ingredients and the charcuterie's responsibility in promoting sustainability. 2C/1/1/0

CULA 3650 Organic and Sustainable Foods

This class is designed to illustrate the importance of organic and local ingredients, from the harvest at the farm to the final plate presentation in the kitchen. Students will get an introduction to organics, sustainable agriculture and seasonal cooking. The class will participate in trips to local farms and markets and a gardening project. Students will get an indepth look at the roles of local farms and artisan food producers, along with techniques in scratch cooking and product utilization. 3C/1/2/0

Digital Graphics and Interactive Multimedia

DGIM 1400 Introduction to Computer Graphics

Introduction to Computer Graphics will introduce students to a wide variety of software applications used in the Visualization Technology area as well as cover the basic theories and practices regarding still image graphics, file formats, animation and color theory. In addition, the importance of an online portfolio will be discussed and an basic portfolio will be constructed. 4C/4/0/0

DGIM 1443 Dreamweaver 1

This course explores the basics of Dreamweaver. Topics include file organization, the Dreamweaver interface, site control, images, text, linking pages, ordered, unordered and defined lists, color schemes, tables and basic layouts. The focus of this course is to introduce the student to Dreamweaver and develop a simple Web site using the techniques learned. 2C/2/0/0

DGIM 1444 Dreamweaver 2

This course explores the more advanced topics of Dreamweaver including frames, rollovers, cascading style sheets, HTML, forms, DHTML, automation, sounds, templates and libraries and troubleshooting. It is recommended that students taking this course have taken DGIM 1443 or its equivalent. 2C/2/0/0

DGIM 1446 Adobe Fireworks 1

This course introduces the student to Fireworks. Topics include common Fireworks tasks, the Fireworks interface, setting up, modifying, navigating Fireworks documents, creating simple graphics, working with text, working with bitmaps and building professional graphics. This is a hands-on course where the students will develop a project using the knowledge gained in class. 2C/2/0/0

DGIM 1448 Flash 1

This course introduces the student to Flash. Topics include common Flash tasks, the Flash interface, setting up, modifying, navigating Flash documents, creating simple graphics, working with text, working with bitmaps and building professional graphics. This is a hands-on course where the students will develop a project using the knowledge gained in class. 2C/2/0/0

DGIM 1449 Introduction to Flash Action Script

This course takes you beyond the basics of DGIM 1448. Topics include adding sounds to Flash, publishing movies, layer editing, Action Script, importing Quick Time movies into Flash and creating 3-D effects in Flash. This is a hands-on course where the students will develop a project using knowledge gained in class. It is recommended that students taking this course have taken DGIM 1448 or its equivalent. 2C/2/0/0

DGIM 1472 Digital Multimedia for Non-Majors

This course is an introduction to digital multimedia tools for students not majoring in the computer careers area of the College. It is an overview course on the subject of digital media and covers a variety of digital media tools such as Photoshop, Audacity, MovieMaker, and other tools of this type. The course will cover the topics of interest to someone planning to use the software and hardware systems for documentary purposes in other coursework areas. 2C/2/0/0

DGIM 1483 Photoshop 1

This course introduces the student to Adobe Photoshop. Topics include the Photoshop interface, hardware and software requirements, file formats, pixels, vectors, resolution, color theory, Photoshop color management, masks, type and topography, painting tools and brushes, layers and layer styles, filters, extraction, liquefy and the pattern maker. This is a hands-on course where the students will develop a project using the knowledge gained in class. 2C/2/0/0

DGIM 1484 Photoshop 2

This course is a continuation of DGIM 1483 Photoshop 1 as a Presentation Media. Topics include image composition, retouching, composting, ImageReady, Web design, print and prepress, actions, and automation. This is a hands-on course where the students will develop a project using knowledge gained in class. (Prerequisite(s): DGIM 1483 Photoshop 1 as a Presentation Media or equivalent knowledge) 2C/2/0/0

DGIM 1490 3D Animation Fundamentals

This course introduces students to the Blender 3D Animation Tool. Topics will include navigating the Blender interface, object creation and editing, Blender modifiers, material & texture application, lighting and camera setup, multi-resolution sculpting, UV texture mapping, particle tools, shape keys and render setups. Students will be expected to develop an individual animation project using techniques from the lessons learned. 4C/4/0/0

DGIM 1540 Blogging Applications

This course introduces various web logging (blogging) applications currently in use today on the World Wide Web, along with common practices used by bloggers. Applications to be covered include Blogger, Tumblr, Twitter, WordPress, plus other newly developed applications. In addition to the general use of these applications, students will be introduced to techniques used for Search Engine Optimization (SEO), web traffic analytics, monetized ad placement, Real Simple Syndication (RSS) support, as well as audio and video blogging options. While there is no prerequisite for this course, students are strongly encouraged to have a basic understanding of the Hyper Text Markup Language (HTML). 2C/2/0/0

DGIM 2520 3D Character Animation

This course continues to explore the features of the Blender 3D Animation Tool. Topics will include rigging and skinning fundamentals, inverse kinematic modeling, 3D sculpting tools, character modeling, retopology body parts, material application and character walk cycle creation. Students will be expected to develop an individual animation project using techniques from the lessons learned. (Prerequisite(s): DGIM 1490 3D Animation Fundamentals) 4C/4/0/0

DGIM 2521 2D Web Animation

This course introduces students to the fundamentals of digital animation with specific focus on two dimensional software animation tools. Topics will include the 12 basic principles of animation as applied to both hand drawn and computer animation, support for web animation on multiple platforms with emphasis on mobile devices, layer editing, audio and video support as well as integration of traditional still image graphic tools into the animation process. Software used in this class will include but not limited to Processing, Adobe Edge and Stencyl, as well as other HTML5 compliant web animation software tools. This is a hands-on course where the students will develop a final project using the knowledge gained in class. 2C/2/0/0

DGIM 2560 Illustrator

In this course, the student will discover the capabilities of the Adobe Illustrator software tool. This begins with an overview of vector vs raster graphics fundamentals. Specific techniques will involve navigating and customizing the Adobe Illustrator workspace, demonstrating selection and alignment with various tools, using of magic wands, item grouping and working with various open and closed path objects. In addition, various transformation techniques including scaling, reflecting, rotating, distorting, shearing and perspective will be explored along with how filters and symbols are used to enhance vector graphic projects. Detailed proficiency will be acquired using the Pen, Pencil, Brush, Layer, Spraycan tools along with a greater understanding of both print and web color theory. Upon completion of this course, the student will complete a final project using techniques from lessons learned. 4C/4/0/0

DGIM 2569 Digital Portfolio Development

This course teaches the student how to create a portfolio. In this course the students will create a digital (web based) and hard copy (paper) portfolio. Topics will include portfolio definitions, design, types, goals, content, organization, and presentation, showing their creative talents to an audience of peers, instructors, and industry professionals. 2C/2/0/0

DGIM 2570 Digital Photography 1

This course introduces the student to digital photography and relates it to Web design advantages of digital photography, advantages of analog photography, hybrid digital photography, maximizing image definition, utilizing camera features, light, composition, on-location shooting, studio shooting, useful photo accessories, computer requirements, converting analog to digital, cataloging and managing images and choosing an image editing program. This is a hands-on course where the students will develop a project using the knowledge gained in class. 2C/2/0/0

DGIM 2571 Digital Photography 2

This course is a continuation of DGIM 2570. Topics include image editing, special effects, advanced image editing, photopainting, prepping images for the Web, "digital magic," making and using device profiles for predictable output and controlling output options. This is a hands-on course where the students will develop a project using knowledge gained in class. (Recommendation(s): DGIM 2570 or its equivalent) 2C/2/0/0

DGIM 2575 Photoshop for Photographers

Photoshop for Photographers concentrates on image editing and is a professional image editor's guide to creative uses of Photoshop. This is a project based class where students will learn the finer details of Photoshop as it applies to image editing and preparing images for various uses. Topics include camera raw processing, sharpening and noise reduction, black and white photography, extending the dynamic range of an image, retouching, layers, selections and masking, filters sued for editing, image management, color management, printed output, output for the web, and automating Photoshop to speed up the editing process. 3C/3/0/0

DGIM 2576 Commercial Photography

Commercial Photography focuses on the history of commercial photography, the nature of commercial photography, trends in photography, layout principles, composition, framing, typography, creativity, and shooting layouts. This is a hands-on course where the student will practice a wide variety of shooting techniques to illustrate how to shoot for the commercial world. 3C/3/0/0

DGIM 2577 Digital Presentations

Digital Presentations deals with presenting your images in a professional format. Various practical exercises ranging from the printed format to displaying for the web and smart devices will be incorporated to give the student practical experience in presenting his/her photographs in a professional manner. Students will learn how to set up a professional Web site and create a Web site to showcase their work. 3C/3/0/0

DGIM 2578 Photographic Strategies

Photographic Strategies deals with various types of photography including portraits, sports, nature, travel, landscape, wedding, black and white, fashion and glamour. Freelance photography is also discussed. 4C/4/0/0

DGIM 2580 Advanced Digital Photography

This course concentrates on advanced digital photography methods, large scale printing and High Dynamic Range (HDR) processing. The student will review their key camera controls, demonstrate use of creative exposure controls, demonstrate use of various tonality and contrast controls, discuss how to obtain the best image, discuss use of color, demonstrate different methods of composition, identify the "perfect" time to shoot a given picture, demonstrate the use of available light and demonstrate various types of pictures one might take (e.g. landscape, travel, portraits, sports, wildlife, and fine art photography). Large format printing will be discussed and practiced along with print color management. The exciting field of HDR photography will be discussed and the student will demonstrate, through the production of a final project, various HDR techniques. (Prerequisite(s): DGIM 2570 Digital Photography 1 and DGIM 2571 Digital Photography 2 or instructor approval) 4C/4/0/0

DGIM 2586 Digital Sound

This course teaches students how to create and edit digital sound for use in computer animation. Topics include analog and digital sound techniques and equipment, analog to digital conversion, basic sound editing, formats and sound conversion, digital to analog conversion and basic sound effect techniques for use in computer animation. 2C/2/0/0

DGIM 2587 Digital Video 1

This course focuses on digital video editing using the Premiere Provideo editing software. Techniques involving multitrack video editing and digital audio integration will be explored, along with the creation of various title effects, fade/transition effects and other standard industry practices. In addition, the topics of video filetype and codecs, demo reel creation, use of other software tools for footage creation and basic video capture techniques will be explored. 2C/2/0/0

DGIM 2588 Digital Video 2

This course focuses on digital video editing using the Final Cut Provideo editing software. Many of the same general techniques covered in DGIM 2587 will be covered but done from the perspective of the Final Cut Pro interface. In addition, video distribution via the web, live video streaming techniques and video integration into the web using the HTML5 standards will be explored. (Prerequisite(s): DGIM 2587 Digital Video 1) 2C/2/0/0

DGIM 2589 Digital Motion Graphics: After Effects

This course introduces the Adobe tool After Effects and explores its usage in video and film post production. Students will learn to animate, alter and compose media in both 2D and 3D space. Various other non-linear editing methods will be explored. Advanced keyframing techniques will be explored in depth, along with other standard post-production techniques used in modern video editing. Various After Effects plug-in usage will be explored, along with the integration of After Effects with other tools in the Adobe suite. Finally, the features of various competing products to After Effects, such as Blender and Jahshaka will be reviewed and compared. (Prerequisite(s): DGIM 2587 Digital Video 1 or concurrent) 2C/2/0/0

DGIM 2591 Computer Graphics & Digital Multimedia Internship

A cooperative work-student program between Saint Paul College's Computer Graphics & Digital Multimedia Program and a business facility to allow the student an employment-like experience. (Prerequisite(s): Instructor approval) Variable credits 2–8

DGIM 2597 Special Topics in Computer Graphics & Digital Multimedia

Provides learning experiences that meet the needs of students, major programs and the College. (Prerequisite(s): Instructor approval) Variable credits 1–6

DGIM 2704 3D Animation Capstone

This course is meant to integrate and expand upon the various animation, video editing and image manipulation skills developed in previous classes in this area. In addition, students are expected to explore new and emerging technologies in the area of animation as part of preparing for future changes in this rapidly changing area. Students will be expected to develop both individual and group animation projects for use in their Internet based portfolio. (Prerequisite(s): DGIM 1490 3D Animation Fundamentals) 4C/4/0/0

Economics

ECON 1710 Introduction to the American Economy

This introductory course provides an overview of the United States' economic system including a broad range of microeconomics and macroeconomics. Topics covered include an overview of the history of the American economic experience. The United States' economy is broadly based on a free market economic model. In addition to looking at the free market model, the rationale for government intervention in our economy is also examined. This course explores the role of government in our modern economy including topics in public choice, fiscal policy, and monetary policy. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 5) 3C/3/0/0

ECON 1720 Macroeconomics

Macroeconomics is a social science that studies how our society can achieve economic goals of full employment, price stability, economic growth, and stable balance of trade. International trade and the concept of comparative advantage and restrictive trade policies are explored. From this inquiry, students will be able to demonstrate the effects of trade on a country's economic performance. In addition, economic data is used to measure growth and to compare an economy's growth rates relative to other international growth rates. The United States' fiscal and monetary policies are defined and examined in terms of the effects those policies have on economic performance. Fiscal and monetary policy is also examined in relation to the business cycle. In addition an inquiry is made of the importance and interrelated nature of social institutions in achieving economic goals. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 8) 3C/3/0/0

ECON 1730 Microeconomics

Microeconomics is a social science that studies how our society can maximize its economic welfare by the efficient use of resource and product markets. In order to facilitate this study, microeconomics has developed tools such as market models that simplify the complex real world situations. These tools are abstractions of reality from which we can derive basic economic principles. These principles act as a guide to our private and society's public choices. Fundamental issues covered are supply and demand, elasticity and competitive and noncompetitive markets. The text has numerous topical examples such as free trade, interest groups, agricultural policy, advertising, health care and more. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 8) 3C/3/0/0

ECON 1790 Special Topics in Economics

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goal 5) Variable credits 1-6

Education

EDUC 1410 Introduction to Teaching STEM

This course will introduce students to the craft of teaching in the areas of science, technology, engineering and math. Students will utilize best practice techniques such as active learning, inquiry-based labs and coaching methods to facilitate student engagement and achievement. Topics such as course development and assessment will be addressed through the creation of mini-lessons or tutorials. Students will participate in a field experience program where they will assist a mentor with supplemental educational techniques such as after-school programs or tutoring. 3C/2/1/0

Electrical Maintenance

ELTN 1111 Electrical Maintenance 1

This is the first in a series of four courses. This course presents basic DC electrical concepts which provide the foundation needed to gain a solid knowledge base from which to maintain electrical distribution systems, operate and maintain electrical equipment, troubleshoot and repair electrical problems in a commercial, industrial or residential environment. 4C/4/0/0

ELTN 1112 Electrical Maintenance 2

This is the second of four courses. This course presents AC electrical concepts which provide the foundation needed to gain a solid knowledge base from which to maintain electrical distribution systems, operate and maintain electrical equipment, troubleshoot and repair electrical problems in a commercial, industrial or residential environment. (Prerequisite(s): ELTN 1111) 4C/4/0/0

ELTN 1113 Electrical Maintenance 3

This is the third of four courses. This course presents three phase AC electrical concepts which provide the foundation needed to gain a solid knowledge base from which to maintain electrical distribution systems, operate and maintain electrical equipment, troubleshoot and repair electrical problems in a commercial, industrial or residential environment. (Prerequisite(s): ELTN 1112) 4C/4/0/0

ELTN 1114 Electrical Maintenance 4

This is the last of four semester curriculum courses in Electrical Maintenance. The last semester presents advanced electrical concepts that provide the foundation for the knowledge base necessary to maintain electrical distribution systems, operate and maintain electrical equipment, troubleshoot and repair electrical problems in a commercial, industrial, or residential environment. Topics include: electromagnetic starters and contactors, basic control circuits, ladder or 'one line' diagrams, harmonics and power quality, relay logic, blueprint reading, national electrical code and troubleshooting techniques. (Prerequisite(s): ELTN 1113) 4C/4/0/0

Electrical Technology

ELTN 1410 National Electric Code 1 and Trade Calculations

This is an introductory course to comprehending the National Electrical Code and the mathematical skills that are required to perform electrical circuit calculations required in the electrical industry. Students will study the history of the code, the code making process, how changes are adopted into the code and the NEC basic structural components. Technical areas include definitions of technical terms and concepts, applied arithmetic calculations, algebraic functions, trigonometry functions and graphing as they apply to circuit analysis and code requirements. 4C/1/3/0

ELTN 1422 Direct Current Circuit Analysis

This course covers the basic concepts of electricity and DC circuits. Topics included are resistance, current, voltage, power, conductors and insulators. Students will learn methods to mathematically determine electrical quantities using Ohm's law and additional electrical formulas, to determine values in series, parallel and combination circuits. The skills and techniques needed to use electrical multimeters to test and troubleshoot circuits is studied. Hands-on experiments for all DC circuit types will consist of building circuits with power supplies and electrical components, and will be evaluated with electrical multimeters. 5C/3/2/0

ELTN 1432 Alternating Current Circuit Analysis

This course covers the basic concepts of AC circuits. Topics included are the study of electromagnetic principles, sine wave principles and relationships, inductance, capacitance, series and parallel circuits, power, circuit analysis and resonance. Students will learn methods to mathematically determine instantaneous electrical values. Handson experiments will include the construction of circuits showing the operation of electromagnets, sine waves, series and parallel resistive, inductive and capacitive circuits. (Prerequisite(s): ELTN 1410 and ELTN 1422) 5C/2/3/0

ELTN 1442 Single-Phase Motors and Generators

This course starts with the basic characteristics of DC motors and DC generators, the types, construction, principles of operation, installation, and maintenance, and formats of controls. Next the student will discover the common types of AC motors used today, the construction, principles of operation, installation and troubleshooting methods. Hands-on experiments using specialized test equipment and electrical meters will include energizing both DC motors and generators and also AC motor types under various load conditions. (Prerequisite(s): ELTN 1410 and ELTN 1422) 5C/2/3/0

ELTN 1512 Three-Phase Systems, Motors and Generators

This course covers three-phase theory, wiring system calculations, methods, and installations. Three-phase motors and generators will also be introduced so students can identify, connect, operate, troubleshoot, and maintain them. This course also covers the proper use of three-phase test equipment used to operate, troubleshoot, and maintain the systems studied in this course. *5C*/3/2/0

ELTN 1522 Introduction to Electronics and Test Equipment

Students are introduced to semiconductors, study different types of diodes and connect them in typical circuits. Complete power supply circuits are connected, analyzed and tested. This course covers transistor theory, operation, connection, testing, and troubleshooting practices for transistors in amplifier and switching applications. This course covers the use of electrical and electronic test equipment. 5C/2/3/0

ELTN 1532 Intermediate Electronics and PLC's

This course covers transistor theory, operation, connection, testing, and troubleshooting practices for transistors in amplifier and switching applications. Also, this course covers transistor the information necessary to gain working and troubleshooting knowledge of thyristors, light, and heat sensitive devices and electrical transducers. Also introduced are programmable logic controllers (PLC's) and it explains how they can be used to control machines and building equipment. Hands-on programming of simple process control examples including system wiring to input/output devices will be fully integrated throughout the course. 5C/2/3/0

ELTN 1540 Low Voltage Systems and Job Site Safety

This course will cover the basic concepts associated with fire & security alarm systems and data communications systems. Hands- on application of components include fire alarm systems, security systems, and data communication and cabling systems. This course will also cover all aspects OSHA job safety for construction electricians. It will address safety issues for awareness rather than compliance purposes. 4C/1/3/0

ELTN 2410 Distribution, Power and Specialty Transformers

This course covers single-phase, Three-phase and specialty transformer operation, including transformer losses, efficiency, and phase relationships. There is extensive math and in-depth coverage of Article 450 of the National Electrical Code. 4C/1/3/0

ELTN 2420 Motor Controls

This course covers design, wiring, and troubleshooting of control and load circuits for single-phase and Three-phase motors. Also covered is the sizing of conductors, circuit short circuit and ground fault protection, and the calculation and proper sizing of motor overload protection. There is also in-depth coverage of Article 430 of the National Electrical Code. 4C/1/3/0

ELTN 2430 Residential Wiring and Blueprint Reading

This course covers the material and design aspect of residential wiring. Topics covered include branch circuit requirements, wiring methods, and the use of blueprints. Related articles in the National Electrical Code are also covered. 4C/1/3/0

ELTN 2440 Heating and Cooling System Controls

This course covers the control of heating and cooling systems in residential and commercial situations. Gas, oil, and electric systems are covered. Related articles in the National Electrical Code are also covered. 4C/1/3/0

ELTN 2510 Wiring Methods and Systems

This course covers the methods used to deliver power in a safe and efficient electrical installation. Conductor properties and various configurations are discussed and installed. (Prerequisite(s): ELTN 2410, ELTN 2420, ELTN 2430, ELTN 2440) 4C/1/3/0

ELTN 2522 Commercial Wiring Methods

This course covers the design, material usage and safe installation practices on commercial job sites. Power tool safety and usage is applied in a handson mockup setting. (Prerequisite(s): ELTN 2410, ELTN 2420, ELTN 2430, ELTN 2440) 5C/2/3/0

ELTN 2532 Industrial Wiring Methods and Service Entrance

This course covers the design, material usage and safe installation practices on industrial job sites. Requirements and safe installation of service entrance equipment and conductors are also covered. (Prerequisite(s): ELTN 2410, ELTN 2420, ELTN 2430, ELTN 2440) 5C/2/3/0

ELTN 2540 National Electrical Code 2

This course takes an in-depth look at the requirements of chapters one through 5 in the current National Electrical Code. Compliance is discussed in the classroom and reinforced in a hands-on mockup setting. (Prerequisite(s): ELTN 2410, ELTN 2420, ELTN 2430, ELTN 2440) 4C/1/3/0

ELTN 2550 Introduction to Renewable Energy

This course presents an introduction to renewable energy systems and resources such as solar, wind, hydro and geothermal. Discussions will include photovoltaic cells, solar panels and arrays. In addition, students will learn about generation and effectiveness of various renewable energy systems. 2C/2/0/0

Electromechanics

EMEC 2600 Mechanical Fundamentals

This course is an introduction to the installation, use, maintenance, and troubleshooting of mechanical drive systems. The learning is based on practical online instruction and classroom hands-on tasks involving chain/gear/belt drive systems, coupling and alignment of drives to loads, drive component lubrication, and gasket and seals. Computer simulation and 3D software will be used throughout the course. Safety procedures will be implemented throughout the course. (Prerequisite(s): Journeyman electrician or ELTN/CNEL diploma/AAS or instructor approval) 4C/2/2/0

EMEC 2610 Fluid System Fundamentals – Pneumatics

This course is an introduction to the installation, use, maintenance, and troubleshooting of pneumatic fluid drive systems found in modern industrial machinery and automation. The learning is based on practical online instruction and classroom hands-on tasks involving pneumatically operated devices and associated peripheral equipment. Topics include basic laws of fluid mechanics, standard symbols, pumps, control valves, control assemblies, actuators, maintenance procedures, test equipment, electric and pneumatic switching/control devices, and proper safety procedures. Online learning computer simulation and 3D software will be used throughout the course as well as laboratory pneumatic equipment. (Prerequisite(s): Journeyman electrician or ELTN/CNEL diploma/AAS or instructor approval) 3C/2/1/0

EMEC 2615 Fluid System Fundamentals – Hydraulics

This course is an introduction to the installation, use, maintenance, and troubleshooting of hydraulic fluid drive systems found in modern industrial machinery and automation. The learning is based on practical online instruction and classroom hands-on tasks involving hydraulically operated devices and associated peripheral equipment. Topics include basic laws of hydraulic fluid mechanics, standard symbols, pumps, control valves, control assemblies, actuators, maintenance procedures, test equipment, electrohydraulic switching/ control devices, and proper safety procedures. Online learning computer simulation and 3D software will be used throughout the course as well as laboratory hydraulic equipment. (Prerequisite(s): Journeyman electrician or ELTN/CNEL diploma/AAS or instructor approval) 3C/1/2/0

EMEC 2710 Fundamentals of Instrumentation

This course will cover the essential elements of a process control system. The learning is based on practical online instruction and classroom handson tasks involving circuit wiring, instrument calibration, and documentation. It will cover common types of electrical and pneumatic signals used for data collection while exploring devices used to measure flow rate, pressure, temperature, level and analytical control. This course will compare fundamental control concepts such as on/off and PID. It will explain how control concepts are used in the various control loops of feedback, cascade, ratio and feedforward. Troubleshooting exercises and safety procedures will be implemented throughout the course. (Prerequisite(s): Journeyman electrician or ELTN/CNEL diploma/AAS or instructor approval) 3C/1/2/0

EMEC 2720 Automatic Process Control

This course will cover the essential elements of a process control system. The learning is based on practical online instruction and classroom handson tasks involving automatic process controllers and associated instrumentation equipment. It will cover common types of electrical and pneumatic signals used for data collection and control while exploring devices used to measure flow, pressure, temperature, and level. This course will compare fundamental control concepts such as on/off and PID. It will explain how control concepts are used in the various control loops of feedback, cascade, ratio, and feed forward. (Prerequisite(s): Journeyman electrician or ELTN/CNEL diploma/AAS or instructor approval and EMEC 2710 Fundamentals of Instrumentation) 4C/2/2/0

EMEC 2730 Advanced PLC's and Process Control

This course will focus on advanced principles of programmable logic controllers (PLC). This course will familiarize the student with interfacing input and output with automation motion control systems used in manufacturing. The learning is based on practical online instruction and classroom hands-on tasks. Introduction to analog input and output modules and devices, internal registers and tables, comparison functions, computational functions, data move functions, subroutines, data manipulation and sequencing functions, high speed counting, analog functions, trigonometric and advanced math functions. Also included are PLC networking, Supervisory Control and Data Acquisition (SCADA), PID automatic process control and the use of Human Machine Interface (HMI) in a control system. Troubleshooting exercises, hands-on I/O wiring, device wiring, programming, and safety procedures will be implemented throughout the course. (Prerequisite(s): Journeyman electrician or ELTN/CNEL diploma/AAS or instructor approval) 3C/2/1/0

Engineering (Pre)

ENGR 1706 Principles of Engineering

Principles of Engineering is a broad-based survey course designed to help students understand the field of engineering and engineering technology and the career pathways. Students are introduced to engineering fundamentals and the knowledge and skills necessary for success as professional engineers and engineering technologies. 2C/1/1/0

ENGR 1708 Digital Electronics

Digital Electronics is the study of electronic circuits that are used to process and control digital signals. Digital Electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. In this course, students will be exposed to combinational and sequential logic design, microcontrollers, soldering. It is a project based course requiring use of problem solving, and teamwork, and communication skills to analyze, design, and build digital electronic circuits. 2C/0/2/0

ENGR 1712 Computer Integrated Manufacturing

Computer Integrated Manufacturing (CIM) describes the process of automation of a manufacturing plant with all processes functioning under computer control. In this course, students will explore how things are made, the processes that go into making different types of products, how automation changed manufacturing, and automation processes and basic programming for control systems and robots. (Prerequisite(s): Completion of or concurrent enrollment in ENGR 1706 Principles of Engineering) 2C/1/1/0

ENGR 1714 Engineering CAD

This course introduces students to solid modeling software used in engineering for design and analysis of parts. It includes creating models and drawings for basic extrusions, revolve features, and cuts as well as more complex blends, sweeps and assemblies. 2C/1/1/0

ENGR 1716 Circuit Analysis 1

This course is meant to develop circuit analysis skills in DC and AC circuits. It includes circuit laws and theorem, mesh and node analysis, natural and step response of RL, RC, and RLC circuits. (Prerequisite(s): PHYS 2710 and MATH 2760 or instructor approval) 3C/3/0/0

ENGR 1790 Special Topics in Engineering

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. Variable credits 1-6

ENGR 2700 Introduction to Problem Solving & Engineering

Design This class introduces the student to a multifaceted engineering problemsolving and design paradigm. In this course, students will learn a systematicengineering approach to solving a problem, engineering design process, andtechnical presentation and analysis of data. Students will be introduced tomathematical, spreadsheet and solid modeling software for use in engineering problem solving. Open-ended activities and design projects will provide opportunities for students to apply common elements of problem solving in the solution of engineering problems in the context of a structured problem solving and design process. (Prerequisite(s): ENGR 1706) 2C/1/1/0

ENGR 2705 Statics

Statics is the first area of study in the science of mechanics. Statics deals with the study of rigid bodies at rest and the forces acting on them. Statics is the foundational course for many fields in engineering including civil, mechanical, biomedical, and structural. In this course, students will use Newton's three laws of motion to solve equilibrium of particles and rigid bodies on both 2D and 3D; determine centroids and moments of inertia; solve for internal and external forces in trusses, beams, and frames; and develop sheer and moment diagrams. (Prerequisite(s): ENGR 1706 with a grade of "C" or better and PHYS 2700 or instructor approval) 3C/3/0/0

ENGR 2710 Dynamics

This course continues the development of fundamental engineering concepts. Topics will include kinematics and kinetics of particles, systems of particles and rigid bodies, work-energy, linear and angular impulse momentum. (Prerequisite(s): Grade of "C" or better in ENGR 2705) 3C/3/0/0

English

ENGL 1410 Fundamentals of Writing 1

This course is aimed at beginning writers who have had little instruction or experience in writing. It provides sequenced instruction in grammar use, sentence construction, and paragraph construction. Students will study models of effective sentences and paragraphs and then generate their own work. Completion of this course with a grade of "C" or better is required to continue on to ENGL 1415. (Prerequisite(s): READ 0721 or ESOL 0850, department approval or appropriate assessment score.) 4C/4/0/0

ENGL 1415 Fundamentals of Writing 2

This course provides credits for certificate and diploma programs and is preparation for ENGL 1711. In addition to reviewing sentence mechanics, students will study a variety of writing models in both paragraph and essay formats. Students must pass the course with a "C" or better in order to move on to ENGL 1711. (Prerequisite(s): Grade of "C" or better in ENGL 1410 or appropriate assessment score.) 4C/4/0/0

ENGL 1711 Composition 1

This course emphasizes the process of writing expository and persuasive essays using effective writing skills and a variety of research techniques. The course includes an analysis of primary and/ or secondary sources with a focus on critical reading, logical reasoning and academic research writing. (Prerequisite(s): Grade of "C" or better in READ 0722 Reading 2, ENGL 1415 Fundamentals of Writing 2 with a grade of "C" or better, or appropriate assessment score) (MnTC: Goal 1) 4C/4/0/0

ENGL 1712 Composition 2

This course emphasizes critical reading and analytical writing using literature as the basis for composition. The course includes an analysis of primary and/or secondary sources with a focus on academic writing. (Prerequisite(s): Grade of "C" or better in ENGL 1711) (MnTC: Goal 1) 2C/2/0/0

ENGL 1720 Introduction to Creative Writing

In this course, we will explore creative writing through reading, analysis, discussion and by writing in three genres: poetry, short story and creative nonfiction. Students will develop an understanding of creative writing techniques and the elements of literature through analysis of literary technique and applying knowledge of craft technique to their own work. Students will learn writing techniques through exercise and practice. Students will analyze and respond critically to poetry, fiction and creative nonfiction in the texts and works produced by peers through reading, discussion, group work, workshops and in writing in order to practice an informed response to creative literature. Students will be encouraged to investigate publication opportunities for their own original writing and to present their own original work in a public reading at the end of the semester. (Prerequisite(s): Grade of "C" or better in ENGL 1711) (MnTC: Goal 6) 3C/3/0/0

ENGL 1725 Introduction to Fiction Writing

This writing intensive course will explore and analyze fictional writing elements (dialogue, setting, character, cause and effect, theme, conflict, resolution etc.) through critical reading of short stories. Leaners will discuss and critique literature and their own writing using workshop sessions to explore writing goals and hone creative and critical writing analysis techniques. Learners will develop an understanding of fiction by applying these techniques to our own writing and in discussion of peers' work. In this course, learners will express a new understanding of fiction writing techniques by applying informed and critical responses to classic and contemporary fictional pieces. Learners will examine the writing process by practicing writing exercises, creating short fiction pieces, examining writing elements through critical reading responses and exams, and by investigating opportunities and tendencies in writing through revision. (Prerequisite(s): ENGL 1711 Composition 1 with a grade of "C" or better) (MnTC: Goal 6) 3C/3/0/0

ENGL 1730 Introduction to Technical Writing

Introduction to Technical Writing is a college-level, introductory course emphasizing workplace writing and communication useful in professional, business, and vocational/technical fields. There will be attention to clear, correct and effective writing necessary for success in the workplace. Assignments include internal and external communication, including e-mail, formal correspondence and memos, researched formal and informal reports, proposals and requests for proposals, instructions, writing for Internet publication, and production of an application packet. Students will be asked to consider audience analysis, usability, workplace writing ethics, and produce work appropriate for Internet publication. (MnTC: Goal 1) 3C/3/0/0

ENGL 1780 Recently-Arrived Contemporary Immigrant Literature

Some of the most compelling contemporary American literature has been written by first and second-generation immigrants to the United States. This course will cover a number of works that explore the difficult process of cultural adjustment for writers of various racial and ethnic groups. The course will cover the larger narrative of coming to America but also focus on particular literary, sociocultural and historical issues. Students will discover how language and narrative strategies are employed by writers to create the stories of their lives: intergenerational conflicts, difficulties tied to language and the formation and re-formation of racial and ethnic identities as writers confront the demands of a new country and life. Immigration and naturalization laws at various moments in US history and how those laws have influenced contemporary literature will be discussed. (Recommendation(s): READ 0722 Reading 2 with a grade of "C" or better, ENGL 1415 Fundamentals of Writing 2 with a grade of "C" or better, or appropriate assessment score.) (MnTC: Goals 6 & 7) 3C/3/0/0

ENGL 1790 Contemporary Writers of Color

This course examines American literature as a multi-voiced body and considers the contributions to that body by writers of color. Under consideration are writings by Native American, Asian American, African American and Latino authors. Particular attention will be given to issues of race, gender, ethnicity, class and sexuality and how these issues are reflected in the complicated construction of identity. As a means of considering how various racial identities are constructed and expressed in literature, contemporary and recently-published work by writers from these groups will be read. In order to provide appropriate context for readings and discussions, the class will consider relevant cultural and social histories of these writers as well. (Prerequisite(s): READ 0722 Reading 2 with a grade of "C" or better, ENGL 1415 Fundamentals of Writing 2 with a grade of "C" or better, or appropriate assessment score.) (MnTC: Goals 6 & 7) 3C/3/0/0

ENGL 2721 Survey of American Literature 1

A survey of American poetry, essays, novels and short stories from colonial times to the end of the Civil War. This course will help the student to discover the definitions of these distinctive genres, their unique boundaries and potential and what distinguishes them from other forms of writing. The historical, political and cultural background of the time will also be covered in this course, so that the student will find the readings to be more interesting and accessible. (Prerequisite(s): Grade of "C" or better in ENGL 1711) (MnTC: Goals 6 & 7) 3C/3/0/0

ENGL 2722 Survey of American Literature 2

A survey of American poetry, essays, novels and short stories from the end of the Civil War to the present. A continuation of Survey of American Literature I. This course will help the student to discover the definitions of these distinctive genres, their unique boundaries and potential and what distinguishes them from other forms of writing. The historical, political and cultural background of the time will also be covered in this course, so that the student will find the readings to be more interesting and accessible. While not a requirement, the student will find this course more enjoyable if he has first taken Survey of American Literature I. (Prerequisite(s): Grade of "C" or better in ENGL 1711) (MnTC: Goals 6 & 7) 3C/3/0/0

ENGL 2725 Survey of British Literature

This college literature course, intended for all students, will introduce British literature. Beginning with the Old English and spanning to the Modernists of the early twentieth century, students will read, discuss, and analyze a variety of texts such as poems, essays, letters, and selections from novels. Typical works and authors may include Beowulf, Chaucer, Milton, Shakespeare, and Swift. The course will consider what these works reveal about British society as well as what they suggest about the human condition. (Prerequisite(s): ENGL 1711 Composition 1 with a grade of "C" or better) (MnTC: Goal 6) 3C/3/0/0

ENGL 2730 Post-Civil War American Novel

A study of the American novel after the Civil War. Beginning with Mark Twain's Huckleberry Finn, this course seeks to discover the unique boundaries and potential of the American novel, what distinguishes it from other forms of literature and how the form changed as the American culture changed. The historical, political and cultural background of the time will also be covered in this course, so that the student will find the readings to be more interesting and accessible. (Prerequisite(s): Grade of "C" or better in ENGL 1711 Composition 1) (MnTC: Goal 6) 3C/3/0/0

ENGL 2732 Exploring the Short Story

This course will focus on analysis of short stories in the context of a genre, a theme, or an author. We will consider the short stories' historical contexts, their critical commentary, and their cultural significance as reflected in the time periods in which they were written. We will discuss the themes and values expressed in these short stories and examine how they impact us as readers. (Prerequisite(s): Grade of "C" or better in ENGL 1711 Composition 1) (MnTC: Goal 6) 3C/3/0/0

ENGL 2740 Native American Literature

Through an analysis of structural and thematic elements, this course seeks to discover the unique additions that Native American writers have brought to the traditional literary canon. Special attention will be given to the historical and cultural aspects of the text. This course is designed to introduce the concept of narrative voice in literature and provide critical techniques for its analysis. (Prerequisite(s): Grade of "C" or better in ENGL 1711 Composition 1) (MnTC: Goals 6 & 7) 3C/3/0/0

ENGL 2750 African American Literature

Through an analysis of structural and thematic elements, this course seeks to discover the unique additions that African American writers have brought to the traditional literary canon. Special attention will be given to the historical and cultural periods, such as the Harlem Renaissance. Moreover, this course is designed to introduce how African American literary criticism has been instrumental in validating and placing African American works in a literary tradition. (Prerequisite(s): Grade "C" or better in ENGL 1711 Composition 1) (MnTC Goals: 6 & 7) 3C/3/0/0

ENGL 2760 English Novel

Why did the novel as a genre emerge in England during the beginning of the 18th century? Beginning with Daniel Defoe's Moll Flanders, this course seeks to discover the unique boundaries and potential of the English novel, what distinguishes it from other forms of literature and how the form changed as the English culture changed. The historical, political and cultural background of the time will also be covered in this course, so that the student will find the readings to be more interesting and accessible. (Prerequisite(s): Grade of "C" or better in ENGL 1711 Composition 1) (MnTC: Goal 6) 3C/3/0/0

ENGL 2770 Introduction to Poetry

This course will focus on the formal aspects of meter and prosody in order to objectify and demystify meaning in poetry. This course will help the student discover the various poetic forms and why a poet would choose one form over the other. In order to facilitate meaning, lectures and additional reading will focus on the social and political climates in which the poems were written. (Prerequisite(s): READ 0722 Reading 2 with a grade of "C" or better, ENGL 1711 Composition 1 with a grade of "C" or better, or appropriate assessment score) (MnTC: Goal 6) 3C/3/0/0

ENGL 2775 Science Fiction and Fantasy

This course will explore science fiction and fantasy through close and comparative readings of various texts. Together we'll consider how the writers of these genres respond to the various challenges of the twenty-first century, including shifting gender, politics, war, and the impact of new technologies on culture. This course will largely be concerned with the twin goals of articulating the writer's critique of present social conditions and exploring how those critiques are constructed. (Prerequisite(s): ENGL 1711 Composition 1 with a grade of "C" or better) (MnTC: Goal 6) 3C/3/0/0

ENGL 2778 Urban Literature—Lost in the City

This course explores contemporary literature in the context of the urban landscape. Together, we'll explore the function of the city in literature with attention to how characters both shape and are shaped by an urban existence. Also, how do various writers portray the city? As a labyrinth? A market place of cross-cultural encounters? A place of refuge? A dystopia? Through close and comparative readings, we'll construct an informed understanding of how and why a city is portrayed by a particular writer and to what degree the city itself functions as a meaningful character in literature. (Prerequisite(s): ENGL 1711 Composition 1 with a grade of "C" or better) (MnTC Goal: 6) 3C/3/0/0

ENGL 2790 Special Topics in English

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goal 1) Variable credits 1-6

English for Speakers of Other Languages (ESOL)

ESOL 0725 High Intermediate Reading and Vocabulary

This course introduces non-native English speakers to academic reading skills at the high intermediate level. Students learn how to identify main ideas and details, use pre-reading strategies, increase reading speed, and interpret graphs and charts. Students also build their vocabulary through the study of word parts, the academic word list, and other strategies. The use of library resources, dictionaries, and online materials is also emphasized. This is a required course. (Prerequisite(s): Appropriate assessment score) 4C/4/0/0

ESOL 0735 High Intermediate Speaking and Listening

This course introduces non-native English speakers to academic speaking and listening skills at the high intermediate level. This course helps students improve their ability to understand native speakers and to express themselves correctly and confidently in a variety of everyday and academic situations. Students use new vocabulary and apply grammar skills to make presentations, participate in group discussions, take lecture notes, and participate in a variety of audio and video activities. This course also helps students improve their pronunciation. Regular use of the multimedia language laboratory is part of this course. This is a required course. (Prerequisite(s): Appropriate assessment score) 4C/4/0/0

ESOL 0745 High Intermediate Writing and Grammar

This course introduces non-native English speakers to academic writing skills at the high intermediate level. Students will improve their ability to write clear, correct sentences, well-organized paragraphs and short essays. Students study basic verb forms, verb tenses, and other grammar structures. Then, they apply this grammar knowledge in a variety of writing situations and formats. Students become familiar with the writing process and online materials. This is a required course. (Prerequisite(s): Appropriate assessment score) 4C/40/0

ESOL 0750 High Intermediate Integrated Skills

This course provides high-intermediate level non-native English speakers with an opportunity to integrate, apply and practice the language skills and concepts they are learning in their ESOL skills courses. The reading, writing, listening, speaking, vocabulary, and grammar skills introduced in the other courses are applied in various types of projects and presentations focusing on specific themes. Integrated skills courses focus on developing critical thinking skills and using appropriate language to express ideas and demonstrate content knowledge in a college setting. This is a required course. (Prerequisite(s): Appropriate assessment score and either completion of or concurrent enrollment in ESOL 0725, ESOL 0735, ESOL 0745) 3C/2/1/0

ESOL 0820 Pronunciation and Articulation

This course is designed for ESOL students who need to improve their pronunciation, articulation and intonation skills. The emphasis is on the technique of sound production, enunciation, rhythm, volume, and pitch through modeling and extensive drilling. Students will reduce their accent and acquire more confidence when they speak. Students at any level are accepted, no prerequisites. 1C/0/1/0

ESOL 0825 Advanced Reading and Vocabulary

In this course, non-native English speakers continue to develop their academic reading and vocabulary skills at the advanced level. Students continue to analyze main ideas and details, use pre- reading strategies, increase reading speed, and interpret graphs and charts. Students further develop their general and academic vocabulary through the study of word parts, the academic word list, and other strategies. The use of library resources, dictionaries, and online materials is also emphasized. This is a required course. (Prerequisite(s): Appropriate assessment score or completion of ESOL 0725 with a grade of "C" or better) 4C/4/0/0

ESOL 0835 Advanced Speaking and Listening

In this course, non-native English speakers continue to develop their academic speaking and listening skills at the advanced level. Students will listen to academic lectures and online media, participate in academic discussions, deliver presentations, and give oral summaries. Students will learn note-taking skills and appropriate communicative strategies for the U.S. college classroom. Use of correct grammar, clear pronunciation and academic vocabulary will be reinforced throughout the semester. Regular use of the multimedia language laboratory is part of this course. This is a required course. (Prerequisite(s): Appropriate assessment score or completion of ESOL 0735 with a grade of "C" or better) 4C/4/0/0

ESOL 0845 Advanced Writing and Grammar

In this course, non-native English speakers continue to develop writing skills and grammar accuracy at the advanced level. This course helps students improve their ability to write clear, correct sentences and well-organized paragraphs and essays. Students study advanced sentence and grammar structures and then apply this grammar knowledge in a variety of writing situations and formats. This course also emphasizes the writing process and the use of online materials. This is a required course. (Prerequisite(s): Appropriate assessment score or completion of ESOL 0745 with a grade of "C" or better) 4C/4/0/0

ESOL 0850 Advanced Integrated Skills

This course provides advanced-level non-native English speakers with an opportunity to integrate, apply and practice the language skills, and concepts they are learning in their ESOL skills courses. The reading, writing, listening, speaking, vocabulary, and grammar skills introduced in the other courses are applied in various types of projects and presentations focusing on specific themes. Integrated skills courses focus on developing critical thinking skills and using appropriate language to express ideas and demonstrate content knowledge in a college setting. This is a required course. (Prerequisite(s): Appropriate assessment score or completion of ESOL 0750 and either completion of or concurrent enrollment in ESOL 0825, ESOL 0835, ESOL 0845) 3C/2/1/0

ESOL 1490 Special Topics in English for Speakers of Other Languages

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. Variable credits 1-6

Geography

GEOG 1700 Physical Geography

This course introduces students to natural landscapes and the geography of the physical environment. Topics include volcanoes, earthquakes, tornadoes, hurricanes, landslides, glaciers, soil, the water cycle, etc. The course covers how these processes work, as well as how these systems and humans impact each other. So this course also covers environmental concerns such as destruction of environments, desertification, air pollution, climate change, etc. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 10) 3C/3/0/0

GEOG 1720 Human/Cultural Geography

This course covers the geographic study of the world cultural areas. Topics include: cultural geography (patterns of language and religion, folk customs, globalization, popular culture), political geography (formation of countries, conflict over land), populations (growth, distributions, migrations, characteristics), global economic activity and development. Case studies from many parts of the world will be analyzed and key geographic concepts will be reviewed. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 8) 3C/3/0/0

GEOG 1740 World Geography

This course covers the geographic study of the world discussing U.S. and Canada, Latin America, Africa, Middle East, Europe, and various regions in Asia. Topics covered include cultures and characteristics of regions, development, unique features around the world, movements of people around the world, the natural landscapes, economic influences, and conflict between countries. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 8) 3C/3/0/0

GEOG 1750 Minnesota Geography

In this course, students will explore Minnesota's regions. Topics covered include: people (culture, settlement patterns, and migrations), the physical landscapes (glacial landforms, soils, and waterways), land use (agriculture, manufacturing, urbanization, etc.), geopolitical issues, and economics. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 10) 3C/3/0/0

GEOG 1790 Special Topics in Geography

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 5) Variable credits 1-6

Global Trade

INTL 1400 Introduction to International Business

Introduces the student to the general field of international business. Study will cover foreign investments, cultural differences, impact of trade agreements, international payments, logistics, taxation and personnel issues. This course provides the foundation for other International Trade courses. 3C/3/0/0

INTL 1410 International Communications and Cultural Awareness

Covers potential problems in the international transaction due to language, and cultural differences. Both written and oral issues will be discussed. In addition, the areas of social and business habits that are different from one country to another will be covered. An understanding of these various needs will help ease the international transaction. 3C/3/0/0

INTL 1512 Export Shipping and Compliance

This course introduces students to the flow of merchandise in an international trade transaction, using various modes of transportation, routing, paperwork, regulations and Incoterms. The principle documents that must be prepared for shipments will be analyzed and created. Information will include the purpose of each document, its function, common problems in preparing and processing this type of document. Discussion will include reviewing documents from the banker, freight forwarder and shipper perspective. Export compliance issues will be discussed. 3C/3/0/0

INTL 2420 U.S. Customs and Importing

Provides students with the basic knowledge needed for customs clearance. This includes classification of products using the Harmonized System, understanding import regulations, marking rules, preparing entry documentation, learning various types of entries and special provisions. This course will help prepare the student to take the U.S. Customs Broker exam. Import compliance will also be discussed. 3C/3/0/0

INTL 2491 International Trade Internship

Cooperative work study program between the Saint Paul College International Trade Program and a business facility to allow the student an employment-like experience. Job duties must reflect program goals. (Prerequisite(s): Instructor approval) Variable lab credits 1–3

INTL 2497 International Trade Special Projects

The intent of this course is to allow flexibility in providing learning experiences to meet a special need of the student, the major program and the College. (Prerequisite(s): Instructor approval) Variable lab credits 1–3

INTL 2530 International Marketing

Study marketing from the international point of view. Topics include how and where to find new international customers, evaluating the needs of international customers, and keeping these customers happy while bringing a profit to the company. Also included are the fundamentals of selling, advertising, the effect of cultural differences on selling and advertising procedures, and techniques of closing the sale. 3C/3/0/0

Health

HLTH 1410 Medical Terminology

Students recognize and build medical terms after learning the meaning of their component parts. A computer lab may be utilized to review terminology and provide practice in word building. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) 1C/0/1/0

HLTH 1418 Somatic Practitioner: Business and Ethics

In this course, students will be introduced to different types of business and ethical standards in the somatic industries of massage therapy, personal training, esthetics and wellness in the massage therapy industry, and basic aspects of a business plan. Topics include scope of practice, certifications, legal requirements, equipment options, charting, time management skills and payment tracking methods. Principles of professional ethics and interactions with clients are integrated throughout the course. (Prerequisite(s): Declared major in Massage Therapy or Personal Trainer major) 2C/1/1/0

HLTH 1420 Anatomy & Physiology

This course assists the student to acquire basic knowledge of body structure and function. Text and materials support a one-semester anatomy and physiology course. Emphasis is on the healthy body. The content in this course includes medical terms that prepare the student to understand common diseases in the clinical setting. Disorders, physiologic responses to environmental factors, and other topics of general interest are explored. Learning outcomes are tied to specific assessments found at the end of each chapter. (Prerequisite(s): HLTH 1410 concurrent enrollment recommended) 4C/4/0/0

HLTH 1421 Anatomy & Physiology for the Somatic Practitioner

Assist the student to acquire basic knowledge of body structure and function with a more detailed exploration of musculo/skeletal, nervous and endocrine system. Students also recognize and build medical terms. Basic concepts of nutrition and understanding of the digestive system will be explored. A thorough understanding of the sliding filament theory and types of muscle contraction will be explored. (Prerequisite(s): Declared major in Massage Therapy or Personal Trainer program) 4C/2/2/0

HLTH 1422 Wellness Coaching

The major focal points of this course is to coordinate knowledge of exercises, lifestyle and nutrition through thoughtful assessment and inquiry, collaborative problem-solving and goal-setting, and safe, open and honest dialogue to assist clients in obtaining future wellness results. Students will learn to help future clients by providing instruction and mentoring, assist in setting goals and help define an action plan that is holistic in nature. Emphasis will be on practical application of working with clients. (Prerequisite(s): Declared major in Massage Therapy or Personal Trainer program) 4C/2/2/0

HLTH 1425 Clinical Applications in Kinesiology

This is a course in the applied study of human movement. Students will study muscles of the body, origin and insertion sites, nerve innervation, associated bones and bony landmarks and action. Students will investigate planes of movement, types of joints, discuss directions and positions of the human body and perform basic structural assessment. Adhesions and trigger points will be discussed and palpated. This course will also look at the theory and practice of functional muscle testing. (Recommendation(s): HLTH 1420 Anatomy & Physiology and HLTH 1421 Anatomy & Physiology for the Somatic Practitioner. Also, physical ability to palpate the human body and willingness to view selected human cadaver videos are recommended.) 3C/1/2/0

HLTH 1430 CPR/First Aid

Includes training in administration of cardiopulmonary resuscitation and basic first aid skills. Lecture material will include anatomy and physiology of the heart and lungs, universal blood and body fluid precautions, AIDS and common medical emergencies. Course certificates for CPR and first aid will be issued upon successful completion. 1C/1/0/0

HLTH 1432 CPR for the Professional Rescuer and Healthcare Provider

This American Red Cross course teaches CPR and AED use for those with a duty to respond. Course meets CPR requirements for Nurses, Nurse Assistants, and other allied health professionals. It is accepted for certification by the National Registry of Emergency Medical Technicians (NREMT). Skills are demonstrated for basic life support: solo and two-person CPR for the infant, child, and adult; the use of bad valve masks (BVM's); obstructed airway management; and training in Automatic External Defibrillators (AED's) for victims of sudden cardiac arrest. Certification is valid for two years. 1C/1/0/0

HLTH 1455 Yoga Postures/Asanas

Creating a yoga practice increases mental clarity, energy and vitality in daily life. This course presents yoga principles and postures, called asanas, which provide a workout that enhances strength, flexibility and balance. The student will create a series of poses that massages the internal organs, improves circulation, digestive functions and other body processes. Students will study an overview of the many health benefits gained through yoga practice. (Prerequisite(s): Discuss health limitations with the instructor. Details provided during the first class session.) 2C/1/1/0

HLTH 1456 Yoga Relaxation Techniques

This course is designed as an interdisciplinary course of study to support and encourage professional collaboration within health careers. The focus of the course is on the application of relaxation techniques and theoretical frameworks to assess and manage the impact of stress on everyday life. In this respect, this course presents new knowledge that will be applicable to the students in health studies, and massage. Inclusion of specific relaxation techniques that address stress and pain management strategies will be included in this curriculum. 2C/1/1/0

HLTH 1457 Yoga Postures 2

This course continues the study of yoga principles and postures. The student will refine the poses that massage the internal organs, improve circulation, digestive functions and other body processes. (Prerequisite(s): HLTH 1455 Yoga Postures/Asanas) 2C/1/1/0

HLTH 1460 Nutrition for the Health Professions

Helps the student develop an understanding of the fundamental principles of nutrition necessary to improve and maintain health, to prevent illness and to provide support and therapy during illness. (Grade of "C" or better in HLTH 1410 and HLTH 1420 is recommended) 2C/2/0/0

HLTH 1465 Functional Holistic Nutrition

The focus of this class is to develop a solid awareness of nutrition; be able to utilize that awareness and make suggestions to somatic practitioner clientele in a legal and ethical fashion, as outlined by the National Association of Nutrition Professionals (NANP) associate membership. 4C/2/2/0

HLTH 1470 Wellness through the Lifespan

Provides the student with concepts of wellness and the mind/body connection throughout the human lifespan. This course focuses on the promotion of wellness, stress reduction, and integrative healthcare services involved in the progressive stages of physical, emotional, intellectual and social development throughout the lifespan. 4C/3/1/0

HLTH 1485 Therapeutic Exercise

The focus of this course is the management of common, soft-tissue injuries through inhibitory techniques, bracing, taping, advanced stretching and corrective exercise techniques. Adaptive exercise for special populations such as geriatrics and pregnancy will also be discussed. (Prerequisite(s): HLTH 1425 recommended) 5C/0/5/0

HLTH 1490 Personal Fitness 1

The major focal points of this course is to create ground frame knowledge of personal fitness including strength, endurance and flexibility for the betterment of individual health. Functional strength training, Active Isolated and Dynamic stretching and aerobic exercise options will be examined and performed. Individuals will create their own personal fitness plan and implement that plan during open Fitness Lab hours. 1C/0/1/0

HLTH 1491 Personal Fitness 2

This class builds on the concepts discussed and experienced in Personal Fitness 1. Concepts of periodization planning will be discussed and implemented. A holistic approach to personal fitness will ensue with a discussion of healthful living including grocery shopping concepts and stress management concepts. 1C/0/1/0

HLTH 1540 Introduction to Techniques for the Yoga Instructor

Practice of proper techniques of asanas, paranyamas, kriyas, chanting, mantra, meditation and other traditional yoga techniques. These hours must be a mix between analytical training, how to teach, and practice techniques and guided practice of the techniques themselves. 3C/1/2/0

HLTH 1542 Teaching Methodology for the Yoga Instructor

Includes principles of demonstration, observation, assisting/correcting instruction, teaching styles, learning styles, qualities of a teacher and the business aspect of teaching yoga. Will include practicum of practice teaching, receiving feedback, observation of others and assisting while others teach. 3C/2/1/0

HLTH 1560 Internship for the Yoga Instructor Course

These hours are to be distributed on an individual basis among the categories as determined by the Instructor. 3C/0/0/3

HLTH 1900 Pathology for the Somatic Practitioner

This course is designed to teach the study of deviations from normal anatomy and physiology as well as basic pharmacology. Students will examine injury and disease related conditions most likely to be encountered in a somatic practice. Special attention is given to signs and symptoms, indications and contraindications of treatment methods, as well as instruction related to skin, neuromuscular and soft tissue conditions. Basic pharmacology will be examined along with drug/ supplement interactions. (Recommendation(s): HLTH 1420) 4C/3/1/0

Health Unit Coordinator

HLUC 1410 Diagnostic & Therapeutic Procedures

Designed to acquaint the student with the patient's chart and doctor's orders for treatments, medications, diagnostic tests and medical procedures. The information presented provides knowledge essential for the processing of physician orders. 4C/4/0/0

HLUC 1420 Health Unit Coordinator Fundamentals

Introduces the student to the health care facility environment and procedures. Students will become acquainted with their role in the health care setting, including ethical and legal standards, customer relations, telephone and communication techniques, problem solving, medical terminology, basic human structure, diseases and disorders. 4C/4/0/0

HLUC 1510 Processing Physicians' Orders 1

Designed to develop student skills in reading and processing physicians' orders. Students will be given hands-on applications in the processing of physicians' orders. It will include procedures for processing of orders related to patient diets, supplies, treatments, activities, nursing observations an medications. Computer use in the processing of physicians' orders will be introduced. (This course must be taken in the semester immediately preceding internship.) (Prerequisite(s) or Co-Requisite(s): HLUC 1410, HLUC 1420) 3C/2/1/0

HLUC 1511 Processing Physicians' Orders 2

Designed to give the students hands-on applications in the processing of physicians' orders. Students will be given sets of handwritten and routine orders which they will read, interpret and process. The student will be introduced to more difficult orders than were introduced in HLUC 1510. (This course must be taken in the same semester as HLUC 1510 and the semester immediately preceding internship.) (Prerequisite(s) or Co-Requisite(s): HLUC 1410 and HLUC 1420; Prerequisite(s): HLUC 1510) 3C/1/2/0

HLUC 2491 Health Unit Coordinator Internship

This is a cooperative training program with a community health care facility. The student will complete this experience at the internship facility. Students will be required to fill out a background study and submit a current immunization record. (Prerequisite(s): Completion of all HLUC courses with a "C" or better and instructor approval) 3C/0/0/3

HIST 1730 Contemporary World History

This course surveys Contemporary World History, from the end of World War II to the present with a focus on Europe, Asia, Africa, Latin America and the Middle East. Significant forces, ideas, events and people that have influenced the world since 1945 are studied. Course themes highlight how and why events transpired and created change in people's lives. Historical events are studied to provide an appreciation for their influence on contemporary society and the implications they may hold for the future. (Prerequisite(s): READ 0721 with a grade of "C" or better or concurrent enrollment or appropriate assessment score.) (MnTC: Goals 5 & 8) 3C/3/0/0

HIST 1745 U.S. History to 1865

This course surveys the political and social history of America from the seventeenth century to the end of the Civil War. The interaction of Europeans, Native Americans, and Africans through the Colonial Era, the American Revolution, and the Early Republic will be discussed. Topics covered also include Jacksonian Democracy, westward expansion, the role of women in the nineteenth century, nineteenth century immigration, and the controversy over slavery. (Prerequisite(s): READ 0721 with a grade of "C" or better or concurrent enrollment or appropriate assessment score.) (MnTC: Goals 5 & 7) 4C/4/0/0

HIST 1746 U.S. History Since 1865

This course surveys the political and social history of America from the end of the Civil War to the present. Topics covered include Reconstruction and racial segregation in the South, the Gilded Age and Progressive Era, the Great Depression of the 1930s, World Wars I and II, the war in Vietnam, the Civil Rights Movement, and social movements of the 1960s. Throughout the course the roles of women, immigrants, and people of color will be discussed. (Prerequisite(s): READ 0721 with a grade of "C" or better or concurrent enrollment or appropriate assessment score.) (MnTC: Goals 5 & 7) 4C/4/0/0

HIST 1750 Minnesota History

This course surveys Minnesota's historical development from the pre-Columbian period to the present. It focuses on the historic importance of Minnesota's geography and natural resources, American Indian-white relations, the development of Minnesota's unique political tradition and the emergence of Minnesota's diverse society and economy. Course readings, videos and class discussions are supplemented by visits to metro-area historic sites and the Minnesota Historical Society's History Center. In addition, students are exposed to the tools and techniques historians use to study the past as a part of completing research projects. (Prerequisite(s): READ 0721 with a grade of "C" or better or concurrent enrollment or appropriate assessment score.) (MnTC: Goals 5 & 10) 3C/3/0/0

HIST 1760 History of World Civilizations to 1500

This course surveys world history from the first civilizations to 1500 C.E. Course themes focus on political, ideological, economic, social, cultural, religious, technological and environmental developments in Africa, Eurasia and the Americas. (Prerequisite(s): READ 0721 with a grade of "C" or better or concurrent enrollment or appropriate assessment score.) (MnTC: Goals 5 & 8) 3C/3/0/0

HIST 1761 History of World Civilizations since 1500

This course surveys world history from 1500 C.E. to the present. Course themes focus on political, ideological, economic, social, cultural, religious, technological and environmental developments in Africa, Eurasia and the Americas. Special focus is given to global factors that allowed the West to exercise significant influence over the development of Africa, Asia and the Americas. (Prerequisite(s): READ 0721 with a grade of "C" or better or concurrent enrollment or appropriate assessment score.) (MnTC: Goals 5 & 8) 3C/3/0/0

HIST 1770 History of Women in the United States

This course explores the history of women in the United States from the colonial period to the present. Within this chronological framework, the course examines how women understood their lives as individuals and as members of families and communities. The course also explores strategies through which women of diverse races, classes, and ethnicities struggled to control their own lives and identities. Special focus is given to how ideologies of gender, race, class and sexuality framed American society and culture. (Prerequisite(s): READ 0721 with a grade of "C" or better or concurrent enrollment or appropriate assessment score.) (MnTC: Goals 5 & 9) 3C/3/0/0

HIST 2740 Immigration and Ethnic History of the United States

This course surveys the experiences of immigrant groups and ethnic minorities within the United States from the colonial period to the present. The experiences of American Indians and immigrant groups from Europe, Africa, Asia and Latin America are explored and their contributions to a multi-cultural America are discussed. Additional course themes include: slavery and its legacies, US government American Indian policy and US government immigration policy. (Prerequisite(s): READ 0721 with a grade of "C" or better or concurrent enrollment or appropriate assessment score.) (MnTC: Goals 5 & 9) 3C/3/0/0

HIST 2780 Special Topics in History

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (Prerequisite(s): READ 0721 with a grade of "C" or better or concurrent enrollment or appropriate assessment score.) (MnTC: Goals 5 & 7) Variable credits 1-6

HIST 2790 Historical Methods

This course is a capstone experience intended for students pursuing an AA degree with an emphasis in history. Students will arrange this course with a history instructor and, along with the instructor, tailor their course to their interests and/or intended future area of study. Students will be exposed to the profession's methodology and produce a research-based semester-long capstone project. (Prerequisite(s): Instructor approval) (MnTC: Goals 5 & 7) 2C/2/0/0

Hospitality Management

HSPM 1410 Introduction to Hospitality Management

This course provides an orientation to the hospitality industry. This includes an introduction to the structure of lodging, food service and tourism organizations, the role of lodging departments, the future of the industry and career opportunities. Course structure includes lecture, projects, discussion and guest speakers. 3C/3/0/0

HSPM 1421 Introduction to Tourism

This course explores the travel and tourism industry. Students will examine growth trends that include best travel options and working with foreign cultures and currencies. 2C/2/0/0

HSPM 1440 Event Management and Planning

This course will provide an overview of Event Management. Topics include identifying the purpose of special events, planning timelines, organization, managing volunteers, evaluation, invitations and logistics. Emphasis will be placed on the principles of management and marketing and how they apply in event planning. Career opportunities in event planning will also be explored. 3C/3/0/0

HSPM 2420 Hotel and Lodging Operations

This course provides students the key principles in the lodging industry, focusing on strategic planning as the foundation for operation effectiveness. 3C/3/0/0

HSPM 2440 Hospitality Marketing and Sales

This course provides principles and practices of marketing the services of the hospitality industry. Emphasis includes the marketing concept with applications leading to customer satisfaction. 3C/3/0/0

HSPM 2591 Hospitality, Management Internship

This course provides students the hands-on opportunity to work in the hospitality industry. (Prerequisite(s): Advisor approval) Variable 1-3 credits

Human Resources

HMRS 1400 Human Resource Management

Covers an introduction to the basic principles of Human Resource functions and services. It will provide background and understanding for further Human Resources courses in the Human Resource Program. 3C/3/0/0

HMRS 1490 Talent Management

This course provides students with a basic understanding of the employment and staffing functions in an organization. Attention will be devoted to the recruitment process, effective interviewing, applicant evaluation techniques, legal requirements, reference checking, and new employee orientation. This course also covers basic information about the training and development functions in an organization and its role in building an effective workforce. Students study effective training techniques including needs assessments, transfer of training, training evaluation, training methods, technology in training, and employee development issues. 3C/3/0/0

HMRS 1510 Human Resources Information Systems and Records

Covers basic information on, and an understanding of, types of Human Resource records, employers' information needs, and government recordkeeping/reporting needs. It also includes an introduction to various HRIS software programs, with hands-on applications. 3C/2/1/0

HMRS 1520 Compensation and Benefits Administration

Covers basic information about various types of benefits that are typically offered by employers. The course covers mandatory government benefits and voluntary benefits. Also included is information about employee compensation and related federal laws. 3C/3/0/0

HMRS 2410 Employee/Labor Relations

This course focuses on employee relations techniques such as: coaching, mentoring, performance management, employee discipline, workplace violence prevention, employee crisis management and effective communication, including gender and generational communication in the workplace. Also covered are the labor relations issues that supervisors need to deal with on a daily basis when working in a union environment. 3C/3/0/0

HMRS 2420 Employment Law and HR Policies

Provides students with an understanding of EEO legislation and other federal laws relating to employment and the impact of these laws on an organization. Students will also study the emerging legal issues facing today's Human Resource Departments. The course will also define the needs for HR policies and the development of a variety of policies. 3C/3/0/0

HMRS 2591 Human Resource Internship

Designed to provide the student with a purposeful, occupational experience in the Human Resource field. Each internship is an individualized experience. A training plan is created for each student, in conjunction with the training site, to provide experience related to the skills and knowledge acquired in the program. (Prerequisite(s): Advisor approval) Variable credits 3–6

Humanities

HUMA 1720 The Ancient and Medieval World

This course introduces students to the global humanities and shows the relationship between the culture of the past and life in the present. The course includes an examination of written works, art, architecture and music from Greece, Rome, the Middle Ages and the Renaissance. Texts, materials and interdisciplinary assignments will examine the arts and ideas of the West in relation to those of other world cultures, including India, East Asia, Africa and Native America. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 8) 4C/4/0/0

HUMA 1730 The Modern World

This course introduces students to the global humanities and shows the relationship between the culture of the past and life in the present. The course includes an examination of written works, art, architecture and music from the Modern World (roughly the 16th Century to the Present). Texts, materials and interdisciplinary assignments will examine the arts and ideas of the West in relation to those of other world cultures, including India, East Asia, Africa and Native America. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 8) 4C/4/0/0

HUMA 1750 Culture and Civilization: Spanish-Speaking Cultures

Taught in English, this course introduces students to the mosaic of qualities that make up the culture and civilization of Spanish-speaking people of the Americas, Spain and elsewhere across the globe. To provide students with an awareness of the cultural, social, religious and linguistic values of Spanish speaking cultures, multi-media resources (Internet, music, video) will be used to illustrate course topics, including the arts, literature and history. This course may include guest speakers and visits to local Latino/Hispanic cultural centers. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 8) 3C/3/0/0

HUMA 1770 The Art of Film

This course is an introduction to film as an art form and as a medium for portraying ideas, myths, human concerns and aesthetic principles. The course includes an examination of film techniques, film theories and artistic styles of films such as formalism, surrealism, expressionism and neorealism. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 6) 3C/3/0/0

HUMA 1780 American Film

Students will be introduced to American film as an art form and as a medium of cultural communication. The course is designed to improve "visual literacy" and to cultivate an ability to deal with film in an intelligent and critical way. The works of Edison, Porter, Griffith, Keaton, Chaplin, Ford, Capra, Welles, and Hitchcock are examples of works to be studied. The course will offer representative examples of the major film genres and styles, including comedy, the western, film noir, and others. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 7) 3C/3/0/0

HUMA 1790 International Film

A study of film as an art form and as a means of cultural communication from an international perspective. The course is designed to cultivate an ability to engage with film in a critical way, as well as broaden understanding of film and culture in a global context. Each semester a variety of national cinematic traditions will be examined including films from Europe, Japan, India, China, Africa, and Latin America. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 8) 3C/3/0/0

HUMA 1795 Special Topics in Humanities

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 6) Variable credits 1-6

Individualized Studies

INDS 1400 Individualized Studies Planning

This course prepares students for the Individualized Studies program. Students will work on strategies and produce a portfolio that demonstrates their plan for competencies in their selected field. 1C/1/0/0

Interpreter/Transliterator Sign Language

INTP 1440 Orientation to Interpreting

This course introduces students to the profession of sign language interpreting. It covers the history of interpreting as a field of professional practice, the required professional ethical and performance standards, the impact of legislation on the field, the phenomena of cross cultural dynamics, oppression of minority groups and the role of an interpreter as a cultural mediator. (Prerequisite(s): INTP 1500 Interpreting Process with a grade of "C" or better) 3C/3/0/0

INTP 1442 English Grammar for Sign Language Interpreters

This course covers fundamentals of English grammar and writing and their relationship to the study of ASL and interpreting/ transliterating. Topics include: parts of speech; prepositional phrases; simple, perfect, and progressive verb tenses; passive and active voice sentences; direct and indirect objects; predicate adjectives, predicate nouns, and predicate pronouns: fundamentals of English sentence structure; punctuation; capitalization; proofreading strategies; and grammatical aspects of English that create challenges for interpreters/ transliterators. The course provides terminology and skill-building exercises which will enable students to: more clearly talk about and analyze aspects of English and ASL; more accurately evaluate their interpreting/transliterating work; identify non-standard English; and evaluate and develop their use of spoken and written standard English. (Prerequisite(s): Completion of ASLS 1413 American Sign Language 3 with a grade of "C" or better) 2C/2/0/0

INTP 1465 Special Topics

A variable credit granting course in the area of interpreting/ transliterating, American Sign Language, specific sign forms, linguistic skills, Deaf Culture or a related area, that is designed to meet the needs of specific groups of students. Each course is designed and accepted based on a written syllabus outlining the objectives and procedures for delivery. Variable credits 1–5

INTP 1500 Interpreting Process

This course introduces students to the theory and application of the interpreting process. Application of interpreting process skills occurs through consecutive interpretation. The goal of the course is to develop cognitive processing skills involved in the interpreting process. (Prerequisite(s): Acceptance into the Sign Language Interpreter/ Transliterator Program and ASLS 1420 ASL Linguistics and/or INTP 1442 English Grammar for Sign Language Interpreters with a grade of "C" or better or taken concurrently with ASLS 1420 ASL Linguistics and INTP1442 English Grammar for Sign Language Interpreters. It is necessary for students in the Sign Language Interpreter/Transliterator Program to be able to process auditory and visual information.) 2C/2/0/0

INTP 1512 Consecutive Interpreting 1

This course develops consecutive interpreting skills introduced in INTP 1500 and prepares students for the simultaneous interpreting process. Students compare American Sign Language and English semantic/ syntactic structures to the consecutive interpreting process. Focus in this course will be on text translation, vocabulary expansion and interpreting process skill development. (Prerequisite(s): Grade of "C" or better in ASLS 1420 and INTP 1500) 4C/2/2/0

INTP 1513 Consecutive Interpreting 2

This course builds upon Consecutive Interpreting skills to prepare students for the simultaneous interpreting process. Students will analyze and compare more complex American Sign Language and English texts in order to prepare for the simultaneous interpreting task. (Prerequisite(s): Grade of "C" or better in ASLS 1430 and INTP 1512) 2C/2/0/0

INTP 2410 Video Relay Interpreting/ Video Remote Interpreting

This course introduces students to Video Remote Interpreting and Video Relay Interpreting. It consists of the history of VRI and VRS as a field of professional practice. It covers the call opening, middle and closing, call management, special populations, cultural considerations, register, affect, current technology, ethical considerations, federal and state governing rules, and similarities and differences between VRI and VRS. Vicarious trauma, self care, and team interpreting topics will be included. Practical application will be made through real-time phone calls. Course content is at an intermediate to advanced level of complexity. (Prerequisite(s): INTP 2592 Interpreter Internship with a grade of "C" or better) 2C/1/1/0

INTP 2411 Sign to Voice Interpreting 1

Focuses on the process of interpretation, provides practice of requisite skills and process tasks and applies skills and theory to the translation process. The course of study focuses on lexical development, syntactical language comparisons, voice production techniques, text/discourse/ interpreting process analysis, semantic mapping and diagnostic assessment. (Prerequisite(s): INTP 1513 with a "C" or better) 4C/1/3/0

INTP 2412 Sign to Voice Interpreting 2

Provides students with additional practice in specific skill areas related to sign-to-voice interpretation. Text/discourse/process analysis, lexical and syntactic development, voice production techniques for simultaneous sign-to-voice interpretation will be the focus. Course content is at an intermediate to advanced level of speed and complexity. Students will work primarily from videotaped language models. (Prerequisite(s): INTP 2411 with a grade of "C" or better) 2C/1/1/0

INTP 2421 Voice to Sign Interpreting 1

Provides students techniques for translating the source language English to the target language American Sign Language (ASL) in simultaneous manner. (Prerequisite(s): Grade of "C" or better in INTP 1513) 4C/1/3/0

INTP 2422 Voice to Sign Interpreting 2

This course allows students to continue practicing rendering the target language (ASL) from the source language (English) simultaneously. It also provides preparation for Internship. Continued emphasis and focus is on appropriate uses of lexical and syntactic principles and non-manual behaviors of ASL. (Prerequisite(s): Completion of INTP 2421 with grade of "C" or better) 2C/1/1/0

INTP 2431 Transliterating 1

This course covers the process of Transliteration (changing a message expressed in spoken English into a coded form of the language). The process moves along a continuum from Contact Language to a signed form of English. Specific subtasks are isolated in order to focus on transliterating skill development, enhancing component skills and incorporating ASL features. These skills are integrated into the performance of beginning to intermediate tasks. (Prerequisite(s): Grade of "C" or better in INTP 1513) 4C/1/3/0

INTP 2432 Transliterating 2

This course expands the process of visually representing English. Students will focus on the expansion and enhancement of transliterating skills at the English end of the ASL-English continuum. Students will incorporate ASL features into intermediate to advanced level texts presented in a simultaneous mode. (Prerequisite(s): Grade of "C" or better in INTP 2431) 2C/1/1/0

INTP 2450 Deaf/Blind Interpreting

Provides students with a working knowledge of the requirements, skills and communication techniques needed to interact and/or interpret with consumers who are Deaf/Blind. (Prerequisite(s): INTP 2411, INTP 2421, INTP 2431) 2C/2/0/0

INTP 2585 Internship Seminar

This course introduces students to the requirements, guidelines, professional practices and types of placements for field experience. Students will discuss protocol, skills, ethics and business practices needed for specific site placements. (Prerequisite(s): Grade of "C" or better in INTP 1513) 1C/1/0/0

INTP 2592 Interpreter Internship

This course is a career-related, supervised work experience that integrates classroom theory and skills with real-life experiences; further develops skills and abilities initiated in program coursework; develops mentoring relationships and skills; identifies resources; expands application of ethical decision making and problem-solving; and prepares students for national certification and employment. (Internship Eligibility: Grade of "C" or better in INTP 2411, 2421, and 2431. Internship Placement: Grade of "C" or better in Interactive Performance Skills Evaluations in INTP 2412 Sign to Voice 2, INTP 2422 Voice to Sign 2 and INTP 2432 Transliterating 2) 5C/0/0/5

Massage Therapy

MASS 1400 Introduction to Therapeutic Massage

This course will enable the student to track the history and development of massage therapy, understand the scope of practice, body mechanics for the practitioner, contraindications for therapy and professional ethics for practitioners. Students will review massage-specific anatomy and physiology with emphasis on muscle identification, actions and insertions on the skeleton. Students will be introduced to basic massage techniques through demonstration and practice. Students will practice correct table set-up and sanitation. Must earn a grade of "C" or better to proceed. (Prerequisite(s): Declared Massage Therapy major) 4C/2/2/0

MASS 1421 Massage Spa Techniques

Students will refine previously learned techniques from the MASS 1400 course. Advanced techniques in chair massage, hydrotherapy, stone therapy, lymphatic drainage massage, reflexology, aromatherapy, pregnancy massage and body wraps will be introduced. Students will learn to integrate various spa techniques in a single massage session. Must earn a grade of "C" or better in this course. (Prerequisite(s): MASS 1400 with a grade of "C" or better) 2C/0/2/0

MASS 1422 Massage Clinical Techniques

Students will refine previously learned techniques in Swedish massage and deep-tissue massage by demonstrating mastery of massage therapy contraindications, body mechanics, muscle actions and insertions. Students will learn stretches for both client and self-care. Advanced techniques in chair massage, reflexology, myofascial release, lymph drainage and neuromuscular therapy will be introduced. Must earn a grade of "C" or better in this course. (Prerequisite(s): MASS 1400 with a grade of "C" or better) 4C/2/2/0

MASS 1423 Advanced Clinical Sports Massage Techniques

Students will refine previously learned techniques. Students will investigate various treatment protocols utilizing scientifically proven, outcome-based techniques including Neuromuscular Therapy, Manual Lymphatic Drainage, Myofascial Release, Travel Trigger Point Therapy, Muscle Energy Technique, Proprioceptive Neuromuscular Facilitated Stretching, Active Isolative Stretching and Positional Release Technique. Students will learn to perform thorough patient assessments utilizing medical histories and objective findings through palpation, functional muscle testing, range of motion testing, postural examination and gait examination. Students will learn to create a care-plan based on evaluations; create treatment plans using carefully selected techniques for the given pathology; and learn to recommend exercises to the patient. Students will learn to give supplementary care as prescribed by a licensed Physician, Chiropractor or Physical Therapist for pathologies including multiple sclerosis, spinal cord injury, traumatic brain injury, stroke, diabetes, AIDS, cancer, burns, post-surgical scarring, chronic pain and fibromyalgia. (Prerequisite(s): Certificate in Massage Therapy or equivalent as evaluated by faculty) 5C/2/3/0

MASS 1480 Massage Therapy Practicum

This course meets the requirement of the performance and documentation of the minimum 50 full-body sessions. Students will demonstrate and apply all previously learned techniques including use of client intake information, knowledge of massage therapy contraindications and skills in charting for each client. Must earn a grade of "C" or better in this course. (Prerequisite(s): MASS 1400 and MASS 1422 with a grade of "C") 4C/0/0/4

MASS 1490 Clinical Massage Internship

Students will refine all previously learned techniques and put them into practice. Students are placed in a traditional clinical setting at Chiropractic offices, Medical Sport Institutes and Physical Therapy clinics for half of the internship. For the second half students may choose to focus on an area of choice such as oncology, pre and post natal, geriatric, AIDS, infant massage, or orthopedic settings. Must earn a grade of "C" or better in this course. (Prerequisite(s): MASS 1423 (with a grade of "C" or better), Instructor approval or completion of entire clinical massage curriculum and professional membership with ABMP including liability insurance. Students must have current CPR certificate and liability insurance on file at Saint Paul College before starting internship.) 5C/0/0/5

Mathematics

MATH 0741 Math Fundamentals 1

This course is designed for students who need to learn the basic principles of mathematics. Topics include whole numbers, fractions, decimals, and percents, applications of percents, graphs, and simple statistical measures. (Placement into this course will be according to college assessment score.) 3C/2/1/0

MATH 0742 Math Fundamentals 2

This course is a continuation of MATH 0741. Topics include whole numbers, fractions, decimals and percents, applications of percents, plane geometry, solid figures, graphs and simple statistical measures, integers, polynomials, and linear equations. (Placement into this course will be according to college assessment score or completion of MATH 0741 with a grade of "C" or better.) 3C/2/1/0

MATH 1411 Applied Mathematics

This course is required for students in certain trade programs. It is designed to help students develop the numerical skills needed to perform tasks in their trade. Topics include whole numbers, fractions, decimals, percents, ratios and proportions, powers, roots, integers, polynomials, equations, plane and solid geometry, trigonometric functions, and word problems relevant to the trades. (Placement into this course will be according to college assessment score or completion of MATH 0742 with a grade of "C" or better.) 3C/2/1/0

MATH 1420 Trade Algebra and Trigonometry

This course is intended for the student who needs to master the fundamentals of algebra and right triangle trigonometry as they apply to the construction trades. The content of this course includes a review of basic math, simplifying expressions involving constants and variables, solving algebraic equations, solving literal problems using spreadsheets and graphing calculators and solving construction trade problems with algebra and right triangle trigonometry. (Placement into this course will be according to college assessment score or completion of MATH 0742 with a grade of "C" or better.) 3C/3/0/0

MATH 1510 Introductory Algebra

This course is intended for students who need to master the fundamentals of algebra. The topics include a review of the real number system, solving equations and inequalities, and their applications, graphing linear equations, solving systems of linear equations, and exponents and polynomials. (Prerequisite(s): Grade of "C" or better in MATH 0742 or appropriate assessment score) 3C/3/0/0

MATH 1520 Intermediate Algebra

This course is intended for students who have had one year of high school algebra and need a refresher before taking courses such as College Algebra and/or Pre-Calculus. The topics include a review of solving equations and inequalities and their applications, exponents and polynomials, factoring polynomials, solving quadratic equations and their applications, rational expressions, rational exponents and radicals, and graphing functions (linear and quadratic). Students wanting to take Calculus will have the option of taking either Pre-Calculus or both College Algebra and Trigonometry as their prerequisites. (Prerequisite(s): Grade of "C" or better in MATH 1510, or appropriate assessment score) 3C/3/0/0

MATH 1710 Liberal Arts Mathematics

This class includes selected topics from the mathematics of social choice, growth and symmetry, and probability and statistics. Real-life applications are used to illustrate mathematical concepts. Modern discoveries, as well as classic problems, are described using straightforward examples. A fundamental objective is to develop an appreciation for the aesthetic elements of mathematics. The development of critical thinking skills through the application of mathematics is also emphasized. This course is designed for students who are not planning to take any further mathematics courses. This course can be used to satisfy the general education requirement for math. (Prerequisite(s): MATH 1520 Intermediate Algebra with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 4) 3C/3/0/0

MATH 1730 College Algebra

This course covers algebraic functions and their applications. Topics include linear and quadratic functions, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, systems of equations and inequalities, matrix algebra, discrete algebra, the binomial theorem and probability. Graphing calculators are used to further the student's understanding of essential mathematical concepts. Students wanting to take Calculus will have the option of taking either Pre-Calculus or both College Algebra and Trigonometry as their prerequisites. (Prerequisite(s): MATH 1520 with a grade of "C" or better, or appropriate assessment score) (MnTC: Goal 4) 3C/3/0/0

MATH 1740 Introduction to Statistics

This course covers concepts and applications of descriptive and inferential statistics. Measures of central tendency and variance, confidence intervals, normal distributions and central limit theorem are explored. The student learns about probability distributions and random variables. Techniques of estimation, hypothesis testing, z-scores, t-tests, F-tests, Chi-square tests, analysis of variance (ANOVA) and linear regression are covered in this course. This course can be used to fulfill the general education requirement for math, and transfer to 2 and 4 year institutions. (Prerequisite(s): MATH 1520 Intermediate Algebra with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 4) 4C/4/0/0

MATH 1750 Trigonometry

This course introduces trigonometric functions and their applications. Topics in trigonometry include angles and the unit circle, graphs of functions, equations, identities, triangles, and the Laws of Sines and Cosines. Vectors, polar coordinates, and parametric equations will also be explored. A review of the fundamentals of functions will be included at the beginning of the course. Students wanting to take Calculus will have the option of taking either Precalculus or both College Algebra and Trigonometry as their prerequisites. (Prerequisite(s): MATH 1730 College Algebra with a grade of "C" or better, or appropriate assessment score) (MnTC: Goal 4) 3C/3/0/0

MATH 1760 Pre-Calculus

The course introduces algebraic and trigonometric functions and their applications. Topics include polynomial, rational, exponential and logarithmic functions. Systems of equations and inequalities, matrices, determinants and analytic geometry will also be explored. In addition, this course covers identities and equations and the laws of sines and cosines. Students wanting to take Calculus will have the option of taking either Pre-Calculus or both College Algebra and Trigonometry as their prerequisites. (Prerequisite(s): MATH 1520 Intermediate Algebra with a grade of "C" or better, or MATH 1730 College Algebra with a grade of "C" or better, or appropriate assessment score) (MnTC: Goal 4) 4C/4/0/0

MATH 1790 Special Topics in Mathematics

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goal 4) Variable credits 1-6

MATH 2749 Calculus 1

This course is a beginning calculus course, which introduces the concepts of limits, derivative, differentiation and integration of functions with emphasis on applications. Topics include introduction to the derivatives and limits, tangent to a curve, properties of limits, derivative of a real function, the power rule and the algebra of derivatives, the chain rules, the mean value theorem, applications of differentiation including max-min problems and related rate problems, anti-derivatives and the definite integral. Graphing calculators are used to further the student's understanding of essential concepts. (Prerequisite(s): MATH 1750 Trigonometry or MATH 1760 Pre-Calculus with a grade of "C" or better, or appropriate assessment score) (MnTC: Goal 4) 4C/4/0/0

MATH 2750 Calculus 2

This course is a continuation of MATH 2749 Calculus 1 and the continued development of the properties and applications of integration. Topics include applications of integral, transcendental functions, techniques of integration, L'Hopital's rule, sequences and series and parametric equations and polar coordinates. A graphing calculator is required. (Prerequisite(s): A grade of "C" or better in MATH 2749) (MnTC: Goal 4) 4C/4/0/0

MATH 2753 Multivariable Calculus

This course is intended for students who have successfully completed MATH 2750 Calculus 2 and covers the calculus of several variables. Topics include functions of several variables, three-dimensional analytic geometry, vectors, partial derivatives, multiple integrals, vector fields, surface integrals, Green's Theorem, Stokes Theorem, and the Divergence Theorem. (Prerequisite(s): MATH 2750 Calculus 2 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 4) 4C/4/0/0

MATH 2760 Ordinary Differential Equations

This course is an introduction to differential equations, which focuses on ordinary differential equations but students will be introduced to partial differential equations. Topics include the basic definition, terminology and ideas of ordinary differential equation, finding solutions of and working with applications of first and second order differential equations, existence and uniqueness of solutions, variation of parameters, undetermined coefficients, matrix formulation of linear systems, Laplace transforms, and an introduction to numerical and graphical methods of solutions. (Prerequisite(s): MATH 2750 Calculus 2 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 4) 4C/4/0/0

Medical Laboratory Technician

MDLT 1400 Orientation

This course is designed to introduce students to the field of medical laboratory science and the role of the Medical Laboratory Technician in healthcare. The history of the medical laboratory science profession, and its scope of practice including lab practice areas and personnel will be discussed. In addition, the course will cover educational requirements, employment opportunities, certification, licensure, regulation and professional and patient codes of ethics. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Enrollment in MDLT Major courses) 1C/1/0/0

MDLT 1410 Laboratory Techniques

Basic skills and techniques will be explained and performed including basic instrumentation. Major topics covered are: safety and standard precautions, laboratory glassware and pipettes, microscopy, balances and weighing, specimen collection and processing, spectrophotometry, metric/chemistry math and solutions, and laboratory information systems. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): CHEM 1711 and BIOL 1730 or concurrent enrollment) 3C/2/1/0

MDLT 1421 Hematology 1

This course covers basic hematology procedures involving manual methods of cell counting and hemoglobin analysis. Emphasis is placed on hematopoiesis theory and blood cell structure concepts including function, appearance, and cell differentiation. Students will employ a laboratory information system to order tests and report results. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Enrollment in MDLT Major courses) 2C/1/1/0

MDLT 1422 Hematology 2

This course is a continuation of Hematology 1 and includes instrumentation, cell differentiation, correlation of laboratory findings and quality control. Diseases, special hematology procedures, and stains are correlated. Coagulation theory and laboratory procedures are covered in the course. Students will employ a laboratory information system to order tests and report results. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MDLT 1421) 4C/1/3/0

MDLT 1430 Urinalysis/Body Fluids

This course covers basic urinalysis procedures used in the clinical laboratory in the examination of a patient's urine. Students study urine formation, renal physiology, the role of the kidney in health and disease, urine specimen types, and components of the routine urinalysis test. The course also includes an overview of other non-urine body fluids analyzed in the clinical laboratory. In the laboratory, students will perform routine urinalysis using both manual and automated methods. Students will practice using a laboratory information system to order tests and report results. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Enrollment in MDLT Major courses) 3C/2/1/0

MDLT 1441 Clinical Chemistry 1

This course covers the analysis of various chemical constituents of plasma and serum. The physiology, methodology and clinical significance of carbohydrate metabolism, non-protein nitrogen, bilirubin metabolism, renal function and liver function is addressed. Laboratory techniques, concepts of math, photometry, pipetting and safety will be reviewed and emphasized. Quality assurance, quality control procedures and manual laboratory techniques will be presented and practiced. POCT procedures will be discussed and practiced. Students will employ a laboratory information system to order tests and report results. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Enrollment in MDLT Major courses) 2C/1/1/0

MDLT 1442 Clinical Chemistry 2

This course covers the theory and clinical correlations of proteins, enzymes, electrolytes, lipids, acid/base balance, and endocrinology. It includes a brief overview of therapeutic drug monitoring and toxicology. Students learn techniques of procedures, quality control, and normal values of chemical constituents analyzed. Concepts that are basic to the operation and maintenance of automated laboratory instruments will be taught. Students will test samples using a variety of automated analyzers. Students will employ a laboratory information system to order tests and report results. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): CHEM 1712 and BIOL 1740 or concurrent enrollment and a grade of "C" or better in MDLT 1441 and HLTH 1410) 4C/1/3/0

MDLT 1446 Phlebotomy

This course provides beginning instruction in blood specimen collection skills and procedures. The course addresses safety, legal issues, customer service, professionalism, the circulatory system, equipment, venipuncture, skin puncture and specimen transport/processing. Students may employ a laboratory information system to document specimen collection. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Enrollment in MDLT Major courses) 1C/0/1/0

MDLT 1451 Learning Lab 1-Introductory Skills

This course reinforces the basic skills required for attaining proficiency in performing introductory medical laboratory procedures in hematology and basic skills. It is designed to allow completion of hands-on skill activities and enhance practical aspects of introductory MDLT courses. The student will be given the opportunity to perform a variety of laboratory techniques with direct instructor supervision. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Enrollment in MDLT Major courses) 1C/0/1/0

MDLT 1452 Learning Lab 2-Introductory Skills

This course reinforces the basic skills required for attaining proficiency in performing introductory medical laboratory procedures in urinalysis, clinical chemistry and phlebotomy. It is designed to allow completion of hands-on skill activities and enhance practical aspects of introductory MDLT courses. The student will be given the opportunity to perform a variety of laboratory techniques with direct instructor supervision. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Enrollment in MDLT Major courses) 1C/0/1/0

MDLT 1453 Learning Lab 3-Intermediate Skills

This course reinforces the basic skills required for attaining proficiency in performing intermediate level medical laboratory procedures in phlebotomy, immunology, and hematology. It is designed to allow completion of hands-on skill activities and enhance practical aspects of intermediate MDLT courses. The student will be given the opportunity to perform a variety of laboratory techniques with direct instructor supervision. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Enrollment in MDLT Major courses) 1C/0/1/0

MDLT 1454 Learning Lab 4-Intermediate Skills

This course reinforces the basic skills required for attaining proficiency in performing intermediate level medical laboratory procedures in phlebotomy and clinical chemistry. It is designed to allow completion of hands-on skill activities and enhance practical aspects of intermediate MDLT courses. The student will be given the opportunity to perform a variety of laboratory techniques with direct instructor supervision. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Enrollment in MDLT Major courses) 1C/0/1/0

MDLT 1510 Immunology

This course covers basic theory in immunology, non-specific immunity and serological procedures. The reactions of antibodies and antigens are studied and performed in the laboratory. Laboratory procedures are designed to instruct the student in basic serology procedures such as serial dilutions, the use of commercial kits and interpretation of results. Students will employ a laboratory information system to order tests and report results. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Enrollment in MDLT Major courses) 2C/1/1/0

MDLT 2400 Mycology/Parasitology

This course covers parasites and fungi of medical importance. An emphasis is placed on identification of diagnostic stages and knowledge of specimen collection, handling, processing, and identification techniques. Students will employ a laboratory information system to order tests and report results. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Must earn a grade of "C" or better in MDLT 1410) 2C/1/1/0

MDLT 2410 Immunohematology

This course covers the introduction to both the theoretical and practical aspects of Immunohematology (transfusion medicine). Areas of study include a review of immunology concepts, blood group genetics, blood typing, blood group systems, antibody screening and identification, compatibility testing, donor selection, blood component preparation and usage and HDN. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Grade of "C" or better in MDLT 1510) 3C/1/2/0

MDLT 2420 Clinical Microbiology

This course covers the isolation and identification of clinically significant microorganisms. Emphasis is placed on specimen sources, growth characteristics, techniques for identification, safety, and quality assurance. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Enrollment in MDLT Major courses) 4C/1/3/0

MDLT 2430 Clinical Practice Orientation

This course explains the clinical laboratory structure and the role of the MDLT student during the practicum phase of the program. Students review theoretical concepts and procedures of testing performed in various clinical laboratory departments. Clinical practice policies and expectations are addressed. Must earn a grade of "C" or better in this course to complete the program. (Prerequisite(s): Grade of "C" or better in all coursework required through the first year including summer term) 1C/1/0/0

MDLT 2455 Learning Lab 5-Advanced Skills

This course reinforces the basic skills required for attaining proficiency in performing advanced level medical laboratory procedures in phlebotomy and immunohematology. It is designed to allow completion of hands-on skill activities and enhance practical aspects of advanced MDLT courses. The student will be given the opportunity to perform a variety of laboratory techniques with direct instructor supervision. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Enrollment in MDLT Major courses) 1C/0/1/0

MDLT 2456 Learning Lab 6-Advanced Skills

This course reinforces the basic skills required for attaining proficiency in performing advanced level medical laboratory procedures in phlebotomy, microbiology, mycology, and parasitology. It is designed to allow completion of hands-on skill activities and enhance practical aspects of advanced MDLT courses. The student will be given the opportunity to perform a variety of laboratory techniques with direct instructor supervision. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Enrollment in MDLT Major courses) 1C/0/1/0

MDLT 2591 Clinical Practice

In this clinical laboratory course, the student works under supervision in a hospital/clinic laboratory. The experience allows the students to refine lab techniques and apply knowledge learned in the didactic phase in an employment-like setting that offers realistic experiences unavailable in student laboratory sessions. Additionally, students acquire nontechnical attributes including, but not limited to, communication, critical thinking, multitasking and independent work skills. Students rotate through hematology, chemistry, urinalysis, microbiology, immunohematology (transfusion medicine), and coagulation departments. In addition, students perform routine specimen collection and processing procedures. (Prerequisite(s): Grade of "C" or better in all MDLT program requirements) Variable credits 1-9 C/0/0/1-9

MDLT 2593 Comprehensive Examinations

Students will be evaluated by comprehensive examinations on their knowledge of theory and practical applications to assist them in their preparation for a national certification examination. Evaluation is exercised in all department areas of the clinical laboratory. (Prerequisite(s): Grade of "C" or better in all required courses in the Medical Laboratory AAS degree including general education courses and clinical practice) 1C/0/1/0

Medical Office

MEDS 1420 Health Information Foundations

This course introduces the student to the health information management profession by covering topics fundamental to the field such as content, function, structure, and uses of health information, along with the health information profession itself. It covers prominent healthcare data sets, their purpose and use, as well as typical departmental functions associated with managing health information. An introduction of clinical vocabularies and classification systems is covered, as well as secondary data sources such as registries and indexes. Finally, students will learn the history, organization, financing, and delivery of health care services in the United States. Must earn a grade of "C" or better in this course to proceed. 3C/3/0/0

MEDS 1470 Anatomy & Physiology/Medical Office

This course provides the student with an understanding of anatomy and physiology of all systems of the human body. Common disease conditions of each body system will be highlighted. This course provides the student with a fundamental knowledge base for work in the medical office careers field. Must earn a grade of "C" or better in this course to proceed. 3C/3/0/0

MEDS 1480 Medical Terminology

This course exposes the student to the language of healthcare known as medical terminology. The student will develop an understanding of medical terminology by studying the pronunciation and definition of word parts as well as the proper format in bringing word parts together to form medical terms. Development of this foundation is designed to provide a medical vocabulary for future healthcare staff. Must earn a grade of "C" or better in this course to proceed. 3C/3/0/0

MEDS 1551 Medical Formatting/Transcription 1

Covers formatting and transcription of a variety of medical documents. Emphasis will be on authentic forms and material; formatting; spelling; building speed and accuracy; and proofreading and correcting errors. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MEDS 1480 or concurrent enrollment) 3C/2/1/0

MEDS 1552 Medical Transcription 2

A continuation of MEDS 1551. A variety of dictated medical material will be produced using electronic equipment. Emphasis will be on authentic forms and material, building speed and accuracy, advanced editing, proofreading and correcting errors. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MEDS 1551) 3C/2/1/0

MEDS 1553 Medical Transcription 3

Advanced course that continues the development of medical transcription skills using word processing equipment to produce a variety of usable medical documents. Emphasis will be on authentic material, building speed and accuracy, advanced editing, proofreading and correcting errors. Material will be from physicians from various ethnic backgrounds and will cover various medical specialty areas. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MEDS 1552) 3C/2/1/0

MEDS 1560 Computerized Health Information

An introduction to the concepts of computer technology associated with healthcare and the tools and techniques for collecting, storing and retrieving health care data. This course will explain the difference between data and information as well as discuss networks, data integrity and security, document imaging and automatic identification. Health information systems including administrative, patient registration, ADT, HIM applications, clinical, point of care, lab, radiology, pharmacy and voice recognition, will also be discussed. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MEDS 1420) 3C/3/0/0

MEDS 1562 Billing and Reimbursement

This course provides an introduction to commercial, managed care and federal insurance plans, including medical claim form preparation and processing, as well as the reimbursement systems and prospective payment systems (PPS) used in the healthcare industry. Billing processes and procedures will be discussed and practiced including clean claims and denials and adherence to the National Correct Coding Initiatives. Chargemaster maintenance, regulatory guidelines, and reimbursement monitoring and reporting will be covered, in addition to compliance strategies. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MEDS 1420) 2C/2/0/0

MEDS 1570 Human Disease

This course provides basic information about major disease conditions affecting all the major body systems. Information about diagnostic, treatment, and surgical procedures is also included. Students will do in-depth research on selected disease conditions using Merck Manual and the Internet. They will review and analyze medical reports reflecting the disease conditions that are presented in class. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MEDS 1480) 3C/3/0/0

MEDS 2430 Pharmacology for the Medical Office

This course offers basic information about drug terminology, drug names (generic and brand), drug classes, and the use of drugs. Drugs frequently prescribed for common disease conditions will be reviewed by body system. Students will use electronic resources and text-based references such as the Physician's Desk Reference (PDR) to look up detailed information about selected drugs that are being reviewed in class. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MEDS 1480) 2C/2/0/0

MEDS 2432 Alternative Health Record Systems

This course focuses on managing health information in health care facilities other than acute care hospitals. An introduction to the basic components of the content, use and structure of health care data and data sets and how these components link to primary and secondary record systems. Topics to be discussed include the content of the health record, documentation requirements, health care data sets, registries and indices, forms and screen design and primary versus secondary records. An explanation of the organization, financing and delivery of healthcare services will be discussed, as well as a discussion of such topics as accreditation standards and licensure and regulatory agencies. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MEDS 1420) 2C/2/0/0

MEDS 2434 Legal and Ethical Aspects of Health Information

An introduction to the legal and ethical issues that are relevant to health information. The court system and legislative process, as well as legal vocabulary will be communicated. Topics to be discussed include confidentiality, release of information, retention guidelines, patient rights and advocacy, advanced directives, and ethics. The new HIPAA guidelines will also be reviewed. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MEDS 1420) 2C/2/0/0

MEDS 2440 Supervision of Health Information

An introduction to the principles of supervision and organization in order to develop effective skills in leadership, motivation and team building approaches. Topics will include basic management principles, human resource supervision, budgeting basics, ergonomics, how to market HIM services and performance or quality improvement. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MEDS 1420) 2C/2/0/0

MEDS 2461 ICD-10-CM Coding

This course teaches the student to accurately code diagnoses using the ICD-10-CM coding system. This class brings the student through all of the coding conventions in order to develop a basic coding foundation. Coding of diagnoses from each body system will be covered as well as coding from healthcare documents. A comparison of ICD-9-CM and ICD-10-CM coding will be included in the course content. Emphasis is on Principle Diagnosis, Secondary Diagnoses, Complications, and Comorbidities. Other topics include DRG's, coding compliance, over-coding and under-coding. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MEDS 1470 and MEDS 1480, OR 5 years of coding experience [experienced individuals should contact the HIT advisor for further information]) 3C/3/0/0

MEDS 2462 ICD-10-PCS Coding

This course teaches the student to accurately code procedures using the ICD-10-PCS coding system. This class brings the student through all of the coding conventions in order to develop a basic coding foundation. Coding procedures from each section of ICD-10-PCS will be covered as well as coding from healthcare documents. A comparison of ICD-9-CM Procedure Coding and ICD-10-PCS Coding will be included in the course content. Emphasis will be on Principle Procedure and Secondary Procedures, DRG's, coding compliance, over-coding and under-coding. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MEDS 1470 and MEDS 1480, OR 5 years of coding experience [experienced individuals should contact the HIT advisor for further information]) 4C/4/0/0

MEDS 2470 CPT-4 Coding

This course teaches the student to accurately code procedures using the CPT-4 coding system. This class brings the student through all of the coding conventions in order to develop a basic coding foundation. Coding of procedures from each body system will be covered as well as coding from operative reports, emergency room reports, physician office reports and other healthcare documents. Students will also be trained in coding from all sections within the CPT-4 system as well as Evaluation and Management coding and HCPCS Level 2-National coding. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MEDS 1470 and MEDS 1480) 3C/2/1/0

MEDS 2480 Advanced Coding

In this course, students will use their basic ICD-10-CM and CPT- 4 coding skills while learning to correctly code diagnoses and procedures from a multitude of source documents such as Inpatient Records; Ambulatory Surgery Records; Emergency Room Reports; Physician Office Cases and Ancillary Service Reports. Students will also become familiar with Diagnosis Related Groups and Ambulatory Payment Classifications. Through instruction in coding these cases, the students will become familiar with what will be expected of them in a real coding position in a healthcare organization. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MEDS 2461, MEDS 2462 and MEDS 2470) 3C/3/0/0

MEDS 2510 Quality Management and Health Statistics

This course is an introduction to the principles of the quality assessment process which encompasses a framework for gaining skills in collecting and analyzing data. This course covers quality assessment and improvement including collection tools, data analysis and reporting techniques. Utilization management, risk management and case management will also be discussed. This course is also a study of the effective use, collection, arrangement, presentation and verification of health care data. Vital statistics, healthcare statistics and descriptive statistics, as well as reliability and validity of data will be discussed. Research techniques and the IRB process will also be covered. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MEDS 1420) 3C/3/0/0

MEDS 2590 HIT Internship/Capstone Project

Students will apply the coursework, theories, skills, and ethics learned during the program to the HIT Internship/Capstone. Under the supervision of a qualified health information professional, the student will gain professional practice and experience, when available, in a healthcare facility. Students will meet written goals and objectives and be evaluated by the Health Information Supervisor and the College Internship Coordinator. The capstone includes a focused review and objective measurement of the Domains and Subdomains required for writing the national certification examination. Students are required to select an independent area of study from a wide-range of topics and disciplines to broaden their scope of interest in health information management. Students work with faculty advisors to schedule the internship, independent study, and healthcare project. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): All required coursework for the Health Information Technology AAS Degree with a "C" or better in all MEDS-prefix courses and instructor approval.) 3C/3/0/0

Music

MUSC 1700 Music Theory and Lab 1

This course is Part 1 of a four-semester sequence in Music Theory and Lab focusing on the development of written music notation, including scales, tonality, key modes, intervals, transposition, chords, cadences, non-harmonic tones and melodic organization. Aural Skills laboratory focuses on practical musicianship training in keyboard, sight singing, and ear training. (Prerequisite(s): READ 0722 Reading 2 with a grade of "C" or better, or appropriate assessment score) (MnTC: Goal 6) 4C/2/2/0

MUSC 1705 Music Theory and Lab 2

Part 2 of a four-semester sequence in Music Theory and Lab focusing on the development of written music notation, including scales, tonality, key modes, intervals, transposition, chords, cadences, nonharmonic tones and melodic organization. Aural Skills laboratory focuses on practical musicianship training in keyboard, sight singing, and ear training. (Prerequisite(s): MUSC 1700 with a grade of "C" or better) (MnTC: Goal 6) 4C/2/2/0

MUSC 1710 Music Theory and Lab 3

Part 3 of a four-semester sequence in Music Theory and Lab focusing on the development of written music notation, including scales, tonality, key modes, intervals, transposition, chords, cadences, non-harmonic tones and melodic organization. Aural Skills laboratory focuses on practical musicianship training in keyboard, sight singing, and ear training. (Prerequisite(s): MUSC 1705 with a grade of "C" or better) (MnTC: Goal 6) 4C/2/2/0

MUSC 1715 Music Theory and Lab 4

Part 4 of a four-semester sequence in Music Theory and Lab focusing on the development of written music notation, including scales, tonality, key modes, intervals, transposition, chords, cadences, nonharmonic tones and melodic organization. Aural Skills laboratory focuses on practical musicianship training in keyboard, sight singing, and ear training. (Prerequisite(s): MUSC 1710 with a grade of "C" or better) (MnTC: Goal 6) 4C/2/2/0

MUSC 1720 Fundamentals of Music

This course has been designed and structured for students with very little or no musical background. Its goal is to provide you with the tools for a basic understanding of the rudiments of music. Course topics include: The Keyboard, Notation: Staff, and Melody, Clefs, Major Scales, Key Signatures, Minor Scales, Intervals, Triads and The Dominant Seventh Chord, Introduction to Rhythm and Meter, Basic Ear Training Exercises. (Prerequisite(s): READ 0722 Reading 2 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 6) 3C/3/0/0

MUSC 1730 Concert Choir

This course is a mixed choral ensemble specializing in a wide range of sacred and secular choral literature of all historical periods and nationalities. The ensemble provides singers the opportunity to rehearse, learn and perform repertoire for an a cappella choir as well as repertoire performed with professional instrumental ensembles. The Saint Paul College Concert Choir is open to all students, regardless of major. (MnTC: Goal 6) 2C/0/2/0

MUSC 1735 Class Piano 1

Part 1 of a two-semester sequence designed to develop basic keyboard and musicianship skills including technique, sight reading, harmonization, accompaniment, theory, and piano repertoire in preparation for the Piano Proficiency Exam. (MnTC: Goal 6) 2C/0/2/0

MUSC 1736 Class Piano 2

Part 2 of a two-semester sequence designed to develop basic keyboard and musicianship skills including technique, sight reading, harmonization, accompaniment, theory, and piano repertoire in preparation for the Piano Proficiency Exam. (Prerequisite(s): MUSC 1735 with a grade of "C" or better) (MnTC: Goal 6) 2C/0/2/0

MUSC 1740 Music Appreciation

This course is designed to heighten the enjoyment of music by improving listening skills, increasing musical knowledge, and exploring new forms and styles of Western music throughout the centuries. Course topics students will learn include basic elements of music, musical form and style throughout history, and representative composers and their music. (Prerequisite(s): READ 0722 Reading 2 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 8) 3C/3/0/0

MUSC 1745 History of Rock and Roll

The purpose of this course is to explore the emergence of rock and roll music as a cultural phenomenon in the United States. Besides rock and roll, American musical styles including rhythm and blues, country, folk and rock will be studied within a historical and cultural perspective. (Prerequisite(s): READ 0722 Reading 2 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 7) 3C/3/0/0

MUSC 1750 Jazz History

This introductory course is designed to help students become familiar with and appreciate jazz as an important American art form. The course follows the historical development of jazz style and innovations to Post-Modern developments and integration with other musical forms. Attendance at a live performance is required. (Prerequisite(s): READ 0722 Reading 2 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 7) 3C/3/0/0

MUSC 1760 American Music

This course provides an introduction to folk, ethnic, popular and classical music in the United States. It is designed to help students become familiar with the music from diverse cultural groups and regions of the country. America's Music is an historical overview of the evolution of musical traditions in American society. Attendance at a live performance is required. (Prerequisite(s): READ 0722 Reading 2 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 7) 3C/3/0/0

MUSC 1765 Music of Latin America and the Caribbean

This course introduces the musical styles and genres of Latin American and Caribbean music and the mix of aesthetic, cultural, and geographical distinctions that have emerged over time to define and identity the music of the continent. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 7) 3C/3/0/0

MUSC 1770 Music in World Cultures

The aim of this course is to gain a broader understanding of music as worldwide phenomenon through the study of selected musical traditions and cultures of the world. This course will concentrate on the development and historical background of the music, the introduction of typical musical instruments and most well-known musicians of each region, and the relationship between music and the society. (Prerequisite(s): READ 0722 Reading 2 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 8) 3C/3/0/0

MUSC 1790 Special Topics in Music

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goal 6) Variable credits 1-6

Natural Sciences

NSCI 1710 Earth Science

This course introduces students to topics in geology, oceanography, meteorology and astronomy. The solid earth and earth processes, the liquid hydrosphere and the gaseous atmosphere are studied, as well as the earth as a part of the solar system. It is intended for students interested in the natural sciences and can be used to fulfill the lab science requirement. Two hours of lab per week are required. Lab time will be used to reinforce lecture concepts and will include experiments, hands-on activities, and field trips. Traditional and web-enhanced sections are available. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 3 & 10) 4C/3/1/0

NSCI 1721 Introduction to Geology

This course introduces students to the fundamentals of Geology, including rock and mineral formation, geologic time, global tectonic processes such as earthquakes and volcanoes, and earth surface processes that change our landscape. Current issues relating to Geology, such as global climate change and energy resources will be addressed as well. Two hours of lab per week are required. Lab time will be used to reinforce lecture concepts and will include experiments, hands-on activities and field trips. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 3 & 10) 4C/3/1/0

NSCI 1730 Introduction to Oceanography

This course introduces students to basic scientific principles of oceanography. Topics covered will include the geological, biological, atmospheric, and chemical processes at work in the oceans, as well as contemporary issues related to marine pollution and resource use. Course includes lab-like learning activities. Traditional and online sections are available. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 3 & 10) 3C/3/0/0

NSCI 1740 Introduction to Meteorology

This course introduces students to basic scientific principles of meteorology. Topics include basic properties of the atmosphere, weather terminology, weather phenomena, instrumentation and forecasting. Course includes lab-like learning activities. Traditional and web-enhanced sections are available. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 3 & 10) 3C/3/0/0

NSCI 1750 Natural Disasters

This course introduces students to the investigation of the physical processes, origins of natural disasters and human and economic impacts caused by natural disasters. Content covered will include earthquakes, volcanoes, severe weather, climate change, wildfires, floods and other catastrophic phenomena. Course includes lab-like learning activities. Traditional, online and web-enhanced sections are available. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 3 & 10) 3C/3/0/0

NSCI 1770 Introduction to Energy and the Environment

This course introduces students to energy production, supply, efficiency and the projections of future needs. The potential of solar, biomass, photovoltaics, wind and other continuous flow sources are covered. Crude oil, natural gas, coal and nuclear sources of energy are studied. Environmental, political, economic and ethical considerations are reviewed. Course includes lab-like learning activities. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 3 & 10) 3C/3/0/0

NSCI 1780 Contemporary Issues in Science

Scientific dilemmas and advances in science make headlines every day. Without knowing the science behind the top issues, it is difficult to separate fact from hype. In this course we will focus on contemporary issues such as climate change, renewable energy, environmental toxins, stem cell research, gene therapy, and pandemic diseases. Students will learn the basic scientific concepts behind each issue and will then explore the ethical dilemmas that each issue brings up. Course includes lab-like learning activities. Traditional, hybrid, and online sections are available. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 3 & 9) 3C/3/0/0

NSCI 1782 Minnesota Geology

This course surveys Minnesota's geological history, from exploring the formation of the bedrock more than 2 billion years ago to the current processes that shape the land usage in this State today. Students will learn about the many ways the state's geology contributed to the economic, environmental and political development. Topics include: geologic time, plate tectonics, rock and mineral identification, topographic and geologic maps, superficial processes, and environmental concerns. Through numerous field trips, we will look to the Twin Cities metro area to provide examples of many different earth and environmental processes, and to give us hands-on experience understanding how these processes work (glacial history, rock formations, caves and ancient ocean floor, rivers, and other geologic sites). Course includes lab-like learning activities. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 3 & 10) 3C/3/0/0

NSCI 1790 Special Topics in Natural Science

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goals 3 & 10) Variable credits 1-6

NSCI 2770 Natural Sciences Internship

This course provides students with an opportunity to design and carry out a science research project under the supervision of a faculty advisor. The research report will be prepared using literature review, problem identification, procedural documentation, data collection, data analysis, findings, conclusions, and recommendations. Evaluation will be carried out by faculty teams and experts in the field. The course will also provide an opportunity for field study in an approved internship setting. (Prerequisite(s): Instructor approval) (MnTC: Goal 3) Variable credits 1-4

Nursing Assistant/Home Health Aide

NAST 1111 Nursing Assistant & Home Health Aide

This course introduces concepts of basic human needs, health illness continuum, and basic nursing assistant and home health aide skills. Skills are demonstrated in a supervised laboratory setting. (Prerequisite(s): Nursing Assistant Seminar and appropriate assessment score or grade of "C" or better in READ 0721) 4C/3/1/0

NAST 1112 Nursing Assistant-Clinical

This course will give the student clinical experience in a long-Term care facility. Completion of NAST 1111 and NAST 1112 will meet the state and federal criteria for employment in long- term care. The student must attend all hours of clinical. (Prerequisite(s): NAST 1111) 1C/0/1/0

Personal Trainer

PTRN 1410 Personal Training 1

This course introduces the student to the major components of fitness analysis, basic exercise program design, and the skills necessary for teaching individual activities. Components of exercise physiology are included throughout. Must earn a grade of "C" or better to proceed. (Prerequisite(s): Must be enrolled in Personal Trainer program.) 5C/3/2/0

PTRN 1420 Personal Training 2

This course explores advanced components of fitness analysis, functional training program design, and the skills necessary for teaching group activities. Components of exercise physiology are included throughout. (Prerequisite(s): PTRN 1410 with a grade of "C" or better) 5C/3/2/0

PTRN 1430 Functional Exercise Physiology

The emphasis of this class is to prepare Personal Trainers to be Metabolic Testing Specialists. Exploration of the effects of various types of exercise on body systems complete with testing protocols will be performed. VO2 max test, power tests, plyometric tests, Lactate testing, body fat testing, and speed testing will be performed. Progressions based on testing outcomes will be created. (Prerequisite(s): PTRN 1410 with a grade of "C" or better) 3C/1/2/0

PTRN 1490 Personal Training Internship

This course is the final component of the personal trainer curriculum that serves to integrate all materials learned in a practical setting. Students will be placed at various training facilities providing direct application of personal training techniques and methodologies. Must earn a grade of "C" or better in this course. (Prerequisite(s): Instructor approval or completion of entire personal trainer curriculum and current CPR certificate) *5*C/0/*5*/0

Pharmacy Technology

PHAR 1710 Pharmacy Law and Ethics

This course will provide the student with the Federal and State laws as they pertain to pharmacy. This course will also address ethical theories and principles as they apply to the area of pharmacy practice. It will assist in preparing the student for the Pharmacy Technician Certification Exam. Must earn a grade of "C" or better to proceed in the Pharmacy Technician program. 3C/3/0/0

PHAR 1715 Fundamentals of Pharmacy Technology 1

Fundamentals of Pharmacy Technology will provide students with a detailed, interactive experience that leads to the understanding of community pharmacy practice, medication safety and communications in health care. Students will participate in active learning activities in the classroom, online and in the pharmacy lab. This course is intended to meet the goals of the model curriculum for pharmacy technician training developed by the American Society of Health-System Pharmacists. This class will provide to the student information necessary for preparation of the Technician Certification Exam in prescription processing. Must earn a grade of "C" or better to proceed in the Pharmacy Technician program. 5C/4/1/0

PHAR 1720 Foundations of Pharmaceutical Calculations

This course will introduce the student to foundational mathematical calculations utilized in pharmacy practice. This course will teach mathematical calculation and problem solving for production of pharmaceutical products. Must earn a grade of "C" or better to proceed in the Pharmacy Technician program. (Prerequisite(s): MATH 0742 or appropriate assessment score) 4C/4/0/0

PHAR 1730 Principles of Pharmacy

This course offers a didactic review of prescription processing with laboratory application. Students will receive skill development and problem solving in non-sterile product preparation. (Prerequisite(s): PHAR 1720 Foundations of Pharmaceutical Calculations) 5C/3/2/0

PHAR 1735 Pharmacy Medication Technology

The student will use technologies within the scope of pharmacy practice. (Prerequisite(s): PHAR 1715 Fundamentals of Pharmacy Technology 1) 1C/1/0/0

PHAR 1750 Pharmacy Internship 1 - Retail

Students will receive pharmacy practice experience to refine skills necessary for employment as a pharmacy technician in a retail setting. (Prerequisite(s): PHAR 1730 Principles of Pharmacy and PHAR 1735 Pharmacy Medication Technology with a grade of "C" or better) 3C/0/0/3

PHAR 2710 Fundamentals of Pharmacy Technology 2

Systems, regulations and applications of pharmacy practice in institutional settings. (Prerequisite(s): PHAR 1715 Fundamentals of Pharmacy Technology 1 with a grade of "C" or better) 5C/4/1/0

PHAR 2720 Pharmacy Sterile Products Lab

This class will provide the student with the knowledge and skills to prepare, calculate, or produce sterile products for pharmaceutical use. (Prerequisite(s): PHAR 2710 Fundamentals of Pharmacy Technology 2) 5C/4/1/0

PHAR 2740 Pharmacotherapy of Disease Processes

The basic concepts of diseases and the mechanisms of disease will be presented. It will include the general physiologic principles for the following systems: nervous, endocrine, skeletal, muscular, cardiovascular, respiratory, gastrointestinal, renal, reproductive, skin, hematologic. The course will discuss immune disorders and immune system responses along with infectious diseases and effects of nutrition and heredity on disease. (Prerequisite(s): PHAR 2710 Fundamentals of Pharmacy Technology 2 with a grade of "C" or better) 4C/4/0/0

PHAR 2750 Pharmacy Internship 2 - Hospital

Experience in the institutional/hospital setting to refine skills learned in previous pharmacy technician coursework. (Prerequisite(s): PHAR 1750 Pharmacy Internship 1 - Retail) 4C/0/0/4

Philosophy

PHIL 1700 Introduction to Philosophy

The purpose of this course is to engage the student in a number of central topics in philosophy through the examination and analysis of the writings of contemporary and major Western philosophers, as well as through the close study of several fundamental issues which have arisen in the course of the development of the Western philosophical tradition. Topics of study will include areas such as the nature of human knowledge, perception and illusion, the nature of consciousness, personal identity, minds, brains and machines, freedom and determinism, philosophy of religion, and the meaning of life. The course will be conducted in a seminar/symposium format supplemented by lectures and student participation. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 6) 3C/3/0/0

PHIL 1710 Logic

Logic is the study of arguments. In this course the student will be introduced to the principles of logic and will be able to use these principles in evaluating verbal and written communication. Students will learn both about formal logic, which includes syllogisms and truth-functional logic, as well as informal logic, which includes fallacies and looking at arguments in context. Although this course falls within the goal of mathematics, it may not apply to certain technical programs or meet certain transfer requirements for mathematics. (MnTC: Goal 4) 3C/3/0/0

PHIL 1715 Philosophy of Scientific Reasoning

Do you ever wonder what the difference is between astrology and astronomy: Between alchemy and chemistry? Whether to believe any of the statistics you hear every day? How do we know what is science and what is pseudoscience? Are discoveries different from inventions? Can we say a hypothesis is true if we are less than 100% sure? In this course we discuss the questions above, and look at historical and contemporary case studies through short online films and text. We will compare statistical with casual reasoning and also distinguish between different kinds of research studies. Through online discussions and exercises, students will gain hands-on experience in evaluating and analyzing case studies in the physical, biological and social sciences. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 6) 3C/3/0/0

PHIL 1720 Ethics

The purpose of this course is to acquaint the student with the rich and varied tradition of ethical thought found in Western Civilization. Its historical focus will provide a background for perennial ethical themes. Students will examine a variety of theoretical frameworks through which to approach moral issues and will practice using the principles of each to make judgments about issues. The course will be conducted in a seminar/symposium format supplemented by lectures and student participation. Students are expected to develop a philosophical perspective on moral questions, as evidenced in the ability to relate the positions of various ethical philosophers to contemporary issues, both in written work and in classroom discussion. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 9) 3C/3/0/0

PHIL 1722 Health Care Ethics

This course introduces basic ethical theories, principles, and decisionmaking guidelines used in health care ethics. It examines moral issues confronting health care practitioners, patients, and others involved in medicine. The course includes philosophical analysis of contemporary, moral decision-making on topics such as disclosure, confidentiality, human cloning, medical research, abortion, transplantation, allocation of limited resources, cultural differences regarding medical practices, and euthanasia. The course is open to all students interested in health care ethics and is required for PN majors. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 9) 3C/3/0/0

PHIL 1740 World Mythology

This survey course introduces students to myths from around the world: stories about gods, heroes and heroines, monsters, the workings of the universe, and how human beings fit in. Myths address various important questions people have, such as "why are human beings on the earth?," "what is the best way to live a life?" and "why is there death?" We will look at how people have attempted to answer and make sense of these questions, as well as consider how these stories are a product of a particular culture and why they were so important to the people that produced them. We will also look at how they have continued to influence (Western) culture into the present time. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 8) 3C/3/0/0

PHIL 1742 Greek and Roman Mythology

This survey course introduces students to Greek and Roman mythology: stories about gods, heroes and heroines, monsters, the workings of the universe, and how human beings fit in. Myths address various important questions people have, such as "why are human beings on the earth?", "what is the best way to live a life?" and "why is there death?" We will look at how people have attempted to answer and make sense of these questions, as well as consider how these stories are a product of a particular culture and why they were so important to the people that produced them. We will also look at how they have continued to influence culture into the present time. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 8) 3C/3/0/0

PHIL 1750 Eastern Philosophy

The purpose of this course is to acquaint the student with the major Asian philosophies. Students will engage in study of the history and ideas of the following schools of thought: Hinduism, Taoism, Confucianism and Buddhism. This will include examination and analysis of selections from works such as the Upanishads, the Tao Te Ching, the Analects of Confucius and the writings of the Dalai Lama. Topics of study will include the nature of reality and being, social philosophy and ways of attaining knowledge. We will compare the ideas of Eastern philosophers on certain fundamental issues with the conclusions of various Western philosophies. The course will be conducted in a seminar/symposium format supplemented by instructor lectures and student participation. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 8) 3C/3/0/0

PHIL 1760 World Religions

An introduction to major world religions in India, China, Japan, the Middle East and indigenous religions from around the world. The course will focus on the main practices and beliefs, scriptures, formative periods and historical development of these great religions. It will also include ways fundamental religious questions are answered and a critique of religion from a secular perspective. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 8) 3C/3/0/0

PHIL 1790 Special Topics in Philosophy

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (Prerequisite(s): READ 0722 with a grade of "C" or better, or appropriate assessment score) (MnTC: Goal 6) Variable credits 1-6

Phlebotomy

PHLB 1405 Phlebotomy

This course provides instruction in blood specimen collection skills and procedures. The course addresses safety, legal issues, customer service, professionalism, equipment, venipuncture, skin puncture procedures, and specimen transport/processing. Emphasis is placed on attaining competency in safe blood specimen collection and effective sample processing/handling to preserve specimen integrity as well as on demonstration of effective communication and professional skills to function in a health care setting. (Prerequisite(s): HLTH 1410, BIOL 1730, PHIL 1722, SPCH 1710 or SPCH 1720, HLTH 1430 or concurrent enrollment) 4C/2/2/0

PHLB 1410 Phlebotomy Clinical Experience

This course provides concentrated practice and phlebotomy skill development in a health care setting (affiliate) where information learned in PHLB 1400 can be applied. Students work under the guidance and supervision of clinical staff at the assigned affiliate. Demonstration of a minimum of 100 successful blood collection procedures is required. The specific class times will vary according to the assigned site. (Prerequisite(s): PHLB 1400) 2C/0/0/2

Physics

PHYS 1720 Principles of Physics 1

This course introduces students to fundamental principles of physics and their application to familiar phenomena. Topics include motion, fluids, heat, work, forces, gravity, waves and sound, and energy. The topics will be related to modern technology and everyday phenomena. The course is intended for students who have not had a high school physics course. Lecture and laboratory. (Prerequisite(s): MATH 1730 with a grade of "C" or better) (MnTC: Goal 3) 4C/3/1/0

PHYS 1722 Principles of Physics 2

This course is a continuation of PHYS 1720 Principles of Physics 1. It covers electricity and magnetism, light and optics, simple circuits, topics in modern physics and applications and technology. Lecture and lab. (Prerequisite: PHYS 1720 Principles of Physics 1) (MnTC: Goal 3) 4C/3/1/0

PHYS 1760 Descriptive Astronomy (no lab)

This course introduces students to astronomy. It includes the observation of the planets and stars weather permitting. The course will include topics such as life and death of stars, dark matter, formation of a solar system, the Big Bang Theory and more. Course includes lab-like learning activities. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 3 & 10) 3C/3/0/0

PHYS 2700 General Physics 1 (with Calculus)

Calculus-based course with a study of Kinematics, Dynamics, Laws of Motion, Gravitation, Kinetic and Potential Energy; Conservation of Energy; Linear and Angular momentum; Equilibrium and Fluid Dynamics. Designed to fulfill physics requirements for students in liberal arts and sciences, engineering, and other related science fields. Class includes lecture and lab. High School Physics is recommended. (Prerequisite(s): MATH 2749 Calculus 1 with a grade of "C" or better) (MnTC: Goal 3) 5C/4/1/0

PHYS 2710 General Physics 2 (with Calculus)

Continuation of General Physics 1 (with Calculus). Topics include: Wave Phenomenon, Fluids, Electricity and Magnetism; electrical circuits, light and optics and modern physics. Designed to fulfill physics requirements for students in liberal arts and sciences, engineering, and other related science fields. Class includes lecture and lab. (Prerequisite(s): PHYS 2700 General Physics 1 with a grade of "C" or better) (MnTC: Goal 3) 5C/4/1/0

PHYS 2760 Introductory Astronomy (with lab)

This course is designed for the non-science student who wants to know more about astronomy. We'll be studying the motion of the night sky, the plants and what shapes them, how stars are made and what happens when stars die all the way out to the edges of the known universe. Topics of note will include Planetary Formation, Extra Solar Planet Search, Dark Matter, Dark Energy, the Expanding Universe, and many more fun topics! This course includes a laboratory component with hands on activities to help build understanding. (Prerequisite(s): MATH 0742 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 3 & 10) 4C/3/1/0

PHYS 2790 Special Topics in Physics

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goal 3) Variable credits 1-6

Pipefitting

PIPE 1410 Pipe Science/Math

Study of selected branches of physics and math applied to pipefitting. Areas covered include properties of matter, heat, math and mechanics. (Prerequisite(s): Must be enrolled in Pipefitting pre-apprenticeship program) 5C/2/3/0

PIPE 1420 Pipe Blueprint Reading

Study of basic drafting principles as they relate to piping drawing and blueprints. (Prerequisite(s): Must be enrolled in Pipefitting preapprenticeship program) 3C/1/2/0

PIPE 1430 Pipe Welding 1

Basic course in oxyacetylene welding and cutting of pipe. (Prerequisite(s): Must be enrolled in Pipefitting Pre-apprenticeship program) 5C/1/4/0

PIPE 1441 Basic Heating 1

Introductory course on low pressure steam. Areas include boiler, piping and heat transfer units. (Prerequisite(s): Must be enrolled in Pipefitting pre-apprenticeship program) 3C/1/2/0

PIPE 1442 Basic Heating 2

This course is a basic study of hydronic heating systems. Areas include systems, piping layout and figuring heat loss. (Prerequisite(s): Must be enrolled in Pipefitting pre-apprenticeship program) 3C/1/2/0

PIPE 1445 Apprentice Pipefitting Theory

Introductory course on pipefitting apprenticeship programs. Areas include heating, cooling and piping procedures. (Prerequisite(s): Must be enrolled in Pipefitting apprenticeship program.) 2C/0/2/0

PIPE 1451 Pipe Shop 1

Care and use of tools and equipment and uses of different types of pipe fittings, hangers and the assembly of pipe and fittings are covered. (Prerequisite(s): Must be enrolled in Pipefitting pre-apprenticeship program) 4C/0/4/0

PIPE 1452 Pipe Shop 2

Course consists of tube bending, flaring, soldering, brazing and rigging. (Prerequisite(s): PIPE 1451 and must be enrolled in Pipefitting preapprenticeship program) 4C/0/4/0

PIPE 1455 Introduction to Apprentice Pipe Welding 1

Basic course in pipe welding and cutting of pipe. (Prerequisite(s): Must be enrolled in Pipefitting apprenticeship program.) 2C/0/2/0

PIPE 1522 Basic Air Conditioning and Refrigeration

Fundamental concepts of air conditioning are presented. Areas include air treatment, moisture content, ventilation and purity. (Prerequisite(s): PIPE 1451 and must be enrolled in Pipefitting pre-apprenticeship program) 2C/1/1/0

PIPE 1530 Pipe Welding 2

Basic course in arc welding on plate and pipe. (Prerequisite(s): PIPE 1451 and must be enrolled in Pipefitting pre-apprenticeship program) 5C/0/5/0

PIPE 1540 Electric Controls

Fundamentals of electricity and electrical circuits are covered. (Prerequisite(s): PIPE 1451 and must be enrolled in Pipefitting pre-apprenticeship program) 3C/1/2/0

PIPE 1550 Basic Gas

This is an introductory course on gas used in gas fired heating systems. Areas covered include natural gas burners, LP gas burners, pipe sizing, flue venting, electricity and safety pertaining to gas fired systems. (Prerequisite(s): PIPE 1451 and must be enrolled in Pipefitting preapprenticeship program) 3C/2/1/0

PIPE 1716 Certified Pipe Welding Layout (Lab)

Students will learn pipe math layout for weld fittings in a lab setting. 2C/0/2/0

PIPE 2611 Gas and Gas Controls

This course is intended to provide a fundamental understanding of the various gas-fired mechanical systems and gas controls associated with heating and air conditioning equipment. To include residential furnaces, rooftop units, unit heaters, makeup air units, and hot water boilers, In field troubleshooting techniques will be covered. (Prerequisite(s): Must be enrolled in the Pipefitters apprenticeship training program) 2C/0/2/0

PIPE 2614 Boiler Systems

This course is intended to provide the apprentice a strong foundation in stationary steam engineering, separate or combined low and high pressure and liquid systems. 2C/0/2/0

PIPE 2615 Pipe Layout and Installation 1

Care and use of tools and equipment used by the pipefitter. Study the pipe math necessary for pipe installation. Different types of pipe, pipe fittings, hangers and supports. Skills needed to install steel threaded pipe with both straight and offset runs. (Prerequisite(s): Must be enrolled in the Pipefitter apprenticeship program) 2C/0/2/0

PIPE 2616 Pipe Layout and Installation 2

Advanced pipe layout math skills. Skills needed to run copper, PVC, CPVC. This will include soldering, bending, and flaring copper. Threading, gluing, and fusing of plastic pipe. Students will have the opportunity to receive a Certification in Fusion Installation. (Prerequisite(s): Must be enrolled in the Pipefitter apprenticeship program) 2C/0/2/0

PIPE 2622 Rigging, Industrial Safety and OSHA

This course is designed to cover a broad range of OSHA safety standards in the construction industry. The second half of the course will concentrate on industrial rigging of pipe and equipment. (Prerequisite(s): Must be enrolled in the Pipefitter apprenticeship program) 2C/0/2/0

PIPE 2623 Apprenticeship Refrigeration & Air Conditioning

This course covers applied refrigeration and air conditioning for first year pipe trade apprentices. The course focuses on the understanding of refrigeration theory and its application as it relates to the installation, operation, maintenance, troubleshooting, and repair of residential, commercial, industrial, and institutional refrigeration and air conditioning systems. A strong emphasis is placed on electrical theory, electrical application, electrical code, and electrical safety, as it applies to both low and high voltage circuits of air conditioning and refrigeration equipment. 2C/0/2/0

PIPE 2625 Ammonia/Steam/Hot Water Systems

This course is intended to provide the apprentice with information and skill for the proper piping of refrigeration, hot water and high-pressure steam. 2C/0/2/0

PIPE 2626 Basic Service Applications

This course is intended to provide a fundamental understanding of the various mechanical equipment and controls associated with heating and air conditioning equipment. Basic schematics, fundamentals of electricity and in-field troubleshooting techniques will also be covered. 2C/0/2/0

PIPE 2627 Basic Electricity

This course is intended to provide the apprentice a basic understanding of electricity. This course will combine both text and practical hands-on work. 2C/0/2/0

PIPE 2628 Commercial Pneumatics

This course is on learning control of modem air conditioning, ventilation, and heating equipment. Part of the course will be on design, service, and basic understanding of various air handling systems. Another part will be hands on pneumatic and electric controls. (Prerequisite(s): Must be enrolled in the Pipefitters apprenticeship program) 2C/0/2/0

PIPE 2631 Industrial Pneumatics

This course provides an understanding of instrumentation, controls and pneumatics for industrial, manufacturing and process plants. 2C/0/2/0

PIPE 2632 Commercial Refrigeration

This course encompasses electrical wiring diagrams electronic control theory and circuits related to the components used in the installation and repair of Refrigeration systems. Refrigeration mechanical components and related equipment and tools used for installation and repair. (Prerequisite(s): Must be enrolled in the Pipefitting pre-apprentice program) 2C/0/2/0

PIPE 2635 Apprenticeship Pipe Science

Basic understanding on electrical devices, circuits, and electric measuring instruments as they relate to the installation of mechanical equipment and piping systems. 2C/0/2/0

PIPE 2636 Electrical Controls and Diagrams

This course is intended to provide the apprentice a strong foundation in the fundamentals of electrical theory, terminology, and application. This information will provide the apprentice with a background for understanding the basic operation of various types of electrical circuits and equipment. 2C/0/2/0

PIPE 2638 Computer Controls

This course is designed to assist students in understanding computer concepts including the functions of the Internet and the Web. 2C/0/2/0

PIPE 2641 Supervisory Training/Public Relations

This course will cover both the METAL and the MENTAL aspect of the role of Foreman/Supervisor, as well as how to deal with both employers (management) needs and wants, and following the rules of labor unions, OSHA, demanding General Contractors and others. 2C/0/2/0

PIPE 2642 Piping Design

This course will introduce the fundamentals in the design of ASNE B31.1 Power Piping, material selection, and supports. The course will provide the UA Apprentice examples of applications of power piping codes, and proper piping material selection and installation. Classroom examples will be demonstrated on the fundamentals of ordering materials, calculating pipe hanger loads, flexibility analysis, design of expansion loops, cold springing, hanger selection and installation, hanger spacing and inspection, and reaction forces on piping systems. The course will provide hands-on experience in the installation of constant and variable spring hangers and proper piping installation practices. 2C/0/2/0

PIPE 2643 Test and Balance of Systems

This course covers the necessary steps for pipe trades apprentices and journeymen to start up, test, and balance heating, ventilation, and air conditioning systems. Students shall learn to test and balance systems by instruction and hands-on experience in measuring quantities such as pressures, temperature, the rates at which air and water are flowing, and electrical current and voltage. These measurements are then compared with corresponding quantities called for by the design specifications, and any necessary regulating is done to make actual measurements meet required values. 2C/0/2/0

PIPE 2644 Power Burners and Controls

This is a course on gas and oil power burners and related control systems. The course will include flame safety controls and boiler controls. Also included will be different boiler and burner types and designs. 2C/0/2/0

PIPE 2645 Direct Digital Controls

This course is focused on computer based electronic control systems that control a wide variety of heating, ventilating, air conditioning, refrigeration (HVACR) and other equipment installed in buildings which regulate environmental systems. 2C/0/2/0

PIPE 2651 Refrigeration Code

This course is designed to prepare students for the City of Saint Paul Competency Card in refrigeration code. (Prerequisite(s): Must be enrolled in the Pipefitting pre-apprentice program) 1C/0/1/0

PIPE 2652 Oil Code

This course covers the installation and repair of fuel oil burning equipment, storage tanks and piping systems. Codes governing the installation and start up and service of this equipment will be covered. The emphasis in this course will be to apply knowledge learned in this class to the safe and proper installation and service of equipment and to obtain a certificate of competency for this work. (Prerequisite(s): Graduate of Pipefitting day school program or pipefitting work experience) 1C/0/1/0

PIPE 2653 Gas Code

This course covers the installation and repair of gas burning equipment and piping systems. Codes governing the installation and start up and service of this equipment will be covered. (Prerequisite(s): Graduate of Pipefitting day school program or pipefitting work experience) 1C/0/1/0

PIPE 2654 Hot Water Code

This course is intended to provide the student with information on the proper and safe piping of hot water. (Prerequisite(s): Graduate of Pipefitting day school program or pipefitting work experience) 1C/0/1/0

PIPE 2655 Ammonia Code

The purpose of this course is for registered Pipefitter Apprentices to learn and understand the Minnesota Department of Labor and Industry, High Pressure Piping and Code for Power Piping Systems. Registered apprentices shall also be instructed in the current proper piping practices for the installation of steam, hot water, oil, and ammonia refrigeration systems. 2C/0/2/0

PIPE 2656 High Pressure Steam Code

The purpose of this course is for registered pipefitter apprentices to learn and understand the Minnesota Department of Labor and Industry, High Pressure Piping and Code for Power Piping Systems. Registered apprentices shall also be instructed in the current proper piping practices for the installation of high steam pressure steam systems. 2C/0/2/0

PIPE 2657 Advanced Boiler Systems

Review of Hydronics heating and cooling systems. Introduction to boiler types, such as fire tube, water tube, condensing, and no condensing boilers. Students will understand hot water, low pressure steam, and high pressure steam boilers. Learning how to size pipe to attain delivery of desired BTU's to equipment. Discussion and understanding of the different burner fuel systems, as in natural gas, oil, propane, and electric. Students will understand burner ignition, and flame safety. Thorough coverage of pumps for HVAC systems, covering different types, i.e. positive displacement, and non positive displacement, pump installation, alignment, and repair. Pumping system calculations on pumping head & GPMs and pump curve analysis. 2C/0/2/0

Plumbing

PLMB 2610 PreApprentice Plumbing

This is an introductory course on the use of tools, materials and fittings used in the plumbing field. (Prerequisite(s): Must be enrolled in the Plumbing apprentice program) 2C/0/2/0

PLMB 2612 Job Safety & Health

This course provides knowledge of jobsite hazards and work safety. (Prerequisite(s): Must be accepted into the Plumbing apprentice program) 2C/0/2/0

PLMB 2614 Applied Math for Plumbing

This course covers basic mathematics and practical application to plumbing. (Prerequisite(s): Must be enrolled in the Plumbing apprentice program) 4C/0/4/0

PLMB 2616 Plumbing Welding

This is an introductory course in welding and the principles used in welding. (Prerequisite(s): Must be enrolled in the Plumbing apprentice program) 4C/0/4/0

PLMB 2617 Plumbing Welding 2

This course is for apprentice and journeyman plumbers With prior experience in welding and the plumbing field who wish to upgrade their skills and knowledge. The student must demonstrate safe use of cutting and welding equipment. The student must meet with the Coordinator prior to registration for this class. (Prerequisite(s): Must be enrolled in the Plumbing apprentice program) 1C/0/1/0

PLMB 2618 Basic Drawing

This course introduces the student to basic concepts of drafting, blueprints and plan specifications used in the construction field. (Prerequisite(s): Must be enrolled in the Plumbing apprentice program) 4C/0/4/0

PLMB 2621 Plumbing 1

This course introduces the student to basic scientific principles applied in plumbing. It will introduce the student to drainage and vent systems and the Minnesota State Plumbing Code. (Prerequisite(s): Must be enrolled in the Plumbing apprentice program) 4C/0/4/0

PLMB 2622 Plumbing 2

This course covers proper pipe sizing and installation of piping systems, the installation of plumbing fixtures, appliances and methods used in the installation and repair of these systems. (Prerequisite(s): Must be enrolled in the Plumbing apprentice program) 4C/0/4/0

PLMB 2623 Plumbing 3 Gas Installations & Gas Controls

This course introduces the student to fundamental principles of gas burning appliances and the service and repair of these appliances and systems. (Prerequisite(s): Must be enrolled in the Plumbing apprentice program) 4C/0/4/0

PLMB 2624 Plumbing 4 Commercial & Residential Service

This course introduces students to tools and methods used in servicing and repair of plumbing systems in residential and commercial buildings. (Prerequisite(s): Must be enrolled in the Plumbing apprentice program) 4C/0/4/0

PLMB 2631 Plumbing Code 1

This course covers the Minnesota State Plumbing code and looks at each section in detail. (Prerequisite(s): Must be enrolled in the Plumbing apprentice program) 2C/0/2/0

PLMB 2632 Plumbing Code 2

This course covers the Minnesota State Plumbing code and is a continuation of Plumbing Code 1. (Prerequisite(s): Must be enrolled in the Plumbing apprentice program) 2C/0/2/0

PLMB 2633 Plumbing Code 3

This course covers the Minnesota State Plumbing code and is a continuation of Plumbing Code 2. (Prerequisite(s): Must be enrolled in the Plumbing apprentice program) 2C/0/2/0

PLMB 2634 Plumbing Code 4

This course covers the Minnesota State Plumbing code and is a continuation of Plumbing Code 3. (Prerequisite(s): Must be enrolled in the Plumbing apprentice program) 2C/0/2/0

PLMB 2640 Advanced Blueprint Reading & Heavy Rigging

Study of basic blueprint reading and layout and pipe drawings related to the plumbing field. This course also introduces the student to basic rigging. (Prerequisite(s): Must be enrolled in the Plumbing apprentice program) 4C/0/4/0

PLMB 2650 Industrial Plumbing

This is an introductory course to industrial plumbing work. It focuses on welding, rigging and materials used in industrial plumbing work. (Prerequisite(s): Must be enrolled in the Plumbing apprentice program) 4C/1/3/0

Political Science

POLS 1720 Introduction to American Government

This course provides an overview of the American political system. The course focuses on the principles of the constitution; the concept and processes of federalism; the interaction between the executive, legislative and judicial branches of government; the emergence of political parties, popular opinion, political campaigns; the evolution of domestic and foreign policy; and the role of the media in US politics. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score.) (MnTC: Goals 5 & 9) 3C/3/0/0

POLS 1740 Introduction to World Politics

This course introduces core themes, concepts, and debates in the study of international politics. This course will focus on the causes of war, the global economy, human rights, and humanitarian intervention. Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score.) (MnTC: Goals 5 & 8) 3C/3/0/0

POLS 1750 Introduction to Political Science

This course provides an introduction to political science with an emphasis on democracy, ideologies and current issues. We will explore how ideological differences lead to disagreements on a variety of global and domestic issues. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 9) 3C/3/0/0

POLS 1760 Introduction to Political Philosophy

This course provides an introduction to enduring themes and questions in the history of political philosophy. We will study a selection of both historical and contemporary thinkers as a way to investigate the social, moral and political foundations of modern society. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 9) 3C/3/0/0

POLS 1790 Special Topics in Political Science

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goals 5 & 9) Variable credits 1-6

Practical Nursing

PRNS 1425 Essentials of Clinical Pharmacology

This course introduces the concepts of pharmaceuticals and dosage math. Included is information on pharmacokinetics, pharmacodynamics, common adverse side effects, and contraindications to drug use. Emphasis is placed on drug classifications and safe administration of medications to patients across the life span. Dosage math includes information on the systems of measurement, conversions, solving for x, ratio and proportions, pediatric formulas, and IV drip rate problems. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MATH 0742 or appropriate assessment score. Grade of "C" or better in HLTH 1410, BIOL 1730, ENGL 1711 and PSYC 1720. Must be accepted as a Practical Nursing major.) 2C/2/0/0

PRNS 1435 Foundations of Nursing

Students in Foundations of Nursing are introduced to basic theory and nursing skills required to care for patients of both genders throughout the lifespan, with particular emphasis on the geriatric patient. Students are given the opportunity to demonstrate these skills in the laboratory setting. An introduction to the nursing process provides the student with a beginning framework for decision making. The concepts of teamwork, collaboration, safety, quality improvement, professional identity/behavior, patient-centered care, evidence based practice, and care management are introduced. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Grade of "C" or better in HLTH 1410, BIOL 1730, ENGL 1711 and PSYC 1720. Must be accepted as a Practical Nursing major.) 4C/1/3/0

PRNS 1481 Clinical 1

This course provides students the opportunity to work with health care personnel, apply learned basic skills, the nursing process, and critical thinking in caring for assigned patients. Students will follow plans of care, deliver save and competent cares to patients of both genders, and complete written clinical assignments applying to theory learned in Level I. Students will demonstrate competency within the Practical Nurse scope of practice under the direction of a nursing instructor. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Grade of "C" or better in PRNS 1425, PRNS 1435, PRNS 2410 and PRNS 1521) 3C/0/3/0

PRNS 1482 Clinical 2

In this clinical course, the Practical Nursing students will maintain a safe and effective care environment while taking care of selected patients throughout the life span. Students will implement cares and skills learned in prior Practical Nursing theory and lab courses while functioning within the roles and limitations of the LPN scope of practice. Students will use patient centered cares in collaboration with teamwork to meet the basic needs of assigned patients. Students will maintain professional identity by demonstrating dependability and accountability. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Grade of "C" or better in PRNS 1481, PRNS 1524 and PRNS 2410) 3C/0/3/0

PRNS 1483 Clinical 3

In this clinical course, the Practical Nursing students will care for selected patients in specialty areas (med/surg, psychosocial nursing, pediatrics and obstetrics) to afford them a well-rounded experience. Students will implement patient centered cares learned in prior theory and lab courses. Students will continue to use LPN scope of practice as a guide to implement a safe and effective care environment, and medication administration will be safe. Students will demonstrate professional identity by being dependable and accountable for actions. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Grade of "C" or better in PRNS 1482 and PRNS 1530) 3C/0/3/0

PRNS 1521 Nursing Care of Adults 1

This theory course is a detailed study of pathophysiology of adult patients. Students use their knowledge of normal physiology. Sensory, neurological, musculoskeletal, integumentary, hematologic, lymphatic, immune and infectious disease disorders are studied. Course topics also include fluid/electrolyte imbalance, pain management, pre- and postoperative care, oncology and gerontology. Students apply knowledge based on patient-centered care within the practical nurse scope of practice in preparation to provide safe, quality care. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Grade of "C" or better in PRNS 1425, PRNS 1435, and PRNS 2410 or concurrent enrollment) 4C/4/0/0

PRNS 1524 Nursing Care of Adults 2

This theory course continues the study of pathophysiology of adult patients. Genitourinary/reproductive, cardiovascular, gastrointestinal, respiratory and endocrine system disorders are studied. Students at this level continue utilizing critical thinking to apply information to situations in a safe and effective care environment. Principles of inter-professional teams and shared decision-making are studied and discussed in preparation for clinical experiences. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Grade of "C" or better in PRNS 1491 and PRNS 1521) 3C/3/0/0

PRNS 1530 Maternal Child Health

This course is designed to build on the student's understanding of child growth and development and the basic health needs of the mother, the newborn infant, and the family during pregnancy, labor, delivery, and post-partum period. It provides an overview of the LPN scope of practice when caring for the obstetric and pediatric patient. Patient centered care is emphasized while discussing common pediatric disorders, recommended plans of care, and the concepts of prevention and treatment. Concepts of teamwork and collaboration are integrated throughout the course along with a specific group project each student must complete and present. Upon completion of this course, students will be able to describe safe and effective care utilizing the nursing process for the obstetric and pediatric patient. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Grade of "C" or better in PRNS 1482 and PRNS 1524) 3C/3/0/0

PRNS 2410 Psycho/Social Nursing

This course is designed to build on the student's understanding of human behavior and provides an overview of the LPN scope of practice when caring for patients with alterations in mental health. Patient-centered care is emphasized while exploring common mental health disorders such as depression, anxiety, schizophrenia, bipolar disorder, eating disorders, and cognitive disorders. Concepts of teamwork and collaboration are integrated throughout the course. The basic components of evidence-based practice are introduced. Upon completion of this course, students will be able to describe safe and effective patient care to maintain psychosocial integrity by using the nursing process. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Grade of "C" or better in, HLTH 1410, BIOL 1730, ENGL 1711, and PSYC 1720. Must be accepted as a Practical Nursing major.) 2C/2/0/0

PRNS 2491 Transition to Practice

In this course additional topics and skills are taught that relate to the professional scope of practice for the graduate practical nurse, demonstrating the progression from education to practice. Students will work in a clinical setting applying the knowledge, skills, attitude and the practice of safe effective care expected of the Practical Nursing graduate. They have progressed from a novice level to an accomplished level in the areas of communication, teamwork, problemsolving and the practice of safe effective care. In depth NCLEX-PN preparation is also emphasized in this course. Must earn a grade of "C" or better in this course to complete the program. (Prerequisite(s): Grade of "C" or better in all Nursing Program course requirements) 2C/1/1/0

Psychology

PSYC 1710 General Psychology

This course introduces psychological theory, experimental findings and applications of human behavior. Topics include research methodology, the nervous system, perception, cognition and memory, learning theory, human development, personality, emotions, attitudes, motivation, socialization and psychological disorders and related treatments. The course will explore current research and issues in psychology, including the influence of heredity and the environment on behavior. (Prerequisite(s): READ 0721 with a grade of "C" or better, or concurrent enrollment, or appropriate assessment score.) (MnTC: Goal 5) 4C/4/0/0

PSYC 1720 Psychology throughout the Lifespan

The focus of this course is on human development throughout the lifespan. The course includes research methodology, theoretical perspectives and the physical, cognitive and psychosocial changes that influence people throughout their development. An application of research and theory to current issues will be addressed. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 9) 3C/3/0/0

PSYC 1740 Abnormal Psychology

This course offers an integrated and multidimensional perspective of the study of psychopathology. Students learn about research methods, clinical assessment and diagnosis of psychological disorders using DSM codes as a reference. Students also explore the ways in which mental illness affects peoples' lives. (Prerequisite(s): PSYC 1710 General Psychology) (MnTC: Goals 5 & 7) 4C/4/0/0

PSYC 1750 Introduction to Health Psychology

This course examines how psychological, social and biological factors interact with and affect individuals' efforts to promote their own health and prevent or cope with illness. Topics include individual responses by gender, age and ethnicity; variations in health-related behaviors, stress and illness; whether, and what kind of, treatment individuals seek for health problems and whether they adhere to treatment recommendations; and the theories and methods used by psychologists to understand these issues. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 7) 3C/3/0/0

PSYC 1760 Social Psychology

This course focuses on social psychological theories and research to analyze how an individual's thoughts, feelings, and actions influence other people, social settings, and institutions. Specific emphasis will be placed on the ways in which an individual's cognitive processes affect their emotions and behaviors, as well as their interpretation of social interactions. Topics include perception, attribution, socialization, attitudes, conflict, altruism, groups, power, conformity, prejudice, collective behaviors, and social movements. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 5) 4C/4/0/0

PSYC 1790 Special Topics in Psychology

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goal 5) Variable credits 1-6

Reading

READ 0721 Reading 1

This course emphasizes comprehension and learning strategies necessary to respond effectively to a variety of college texts, readings and assignments. The course focuses on identifying main ideas, supporting details, organizational patterns typically found in college texts, summarizing, and developing college level vocabulary. (Placement into this course will be according to college assessment score.) 3C/3/0/0

READ 0722 Reading 2

This course emphasizes critical reading strategies and college level vocabulary. It presents college reading as information processing and focuses on strategies for improving comprehension, selection, organization and recall. Materials represent a variety of academic disciplines and occupational areas. (Placement into this course will be according to assessment score or successful completion of READ 0721 with a grade of "C" or better.) 3C/3/0/0

READ 0725 Vocabulary Development

This course emphasizes strategies and practice to build college- level and major-specific vocabulary, including guessing meaning from context, and identification of Latin/Greek roots and word parts. The course presents a variety of methods to increase reading, writing, and speaking vocabularies, as well as to foster lifelong vocabulary development. In addition to general academic vocabulary, students will build career-specific vocabulary through nonfiction and research reading in the major areas. 1C/1/0/0

READ 1490 Special Topics in Reading

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. Variable credits 1-6

Related Welding

RWLD 1410 Welding for Carpenters

Carpentry students become acquainted and familiar with basic welding and oxyacetylene cutting processes while learning proper safety techniques associated with welding. 3C/0/3/0

RWLD 1445 Basic Welding for Auto Mechanics

Basic course in welding that includes Oxy-Fuel welding, cutting and brazing, GMAW (wirefeed) in all positions and introduction to SMAW (stick). Instruction will be conducted through lecture, demonstrations and live shop practice. Shop safety will be emphasized at all times. 2C/0/2/0

RWLD 1450 Advanced Mig & Tig Welding

Covers basic welding of light gauge metals, in all positions, as it relates to the Truck Mechanics field, with an emphasis on safety. 2C/0/2/0

RWLD 2621 Apprenticeship Pipe Welding 1

Pipe Welding 1 is a 2-credit class that meets for fifteen nights. The intent of the course is to teach uphill pipe welding. The weld procedure will be a 6010 root pass and a 7018 fill and cover pass. Six-inch schedule 40 carbon steel pipe will be the practice and test material used. Ninety percent of the class time will be spent in the weld shop and ten percent will be in a classroom setting with lectures and demonstrations. 2C/0/2/0

RWLD 2622 Apprenticeship Pipe Welding 2

This course covers welding carbon steel pipe in position, cutting, beveling and prepping pipe, and proper line-up technique prior to applying tack welds. Also covered is welding out pipe joint in various positions and proper and safe use of welding equipment. (Prerequisite(s): Must be enrolled in the Pipefitters apprenticeship training program) 2C/0/2/0

RWLD 2623 Apprenticeship Pipe Welding 3

This is a course on welding carbon steel pipe in position. Areas covered include: cutting, beveling, and prepping pipe; proper lineup technique prior to applying tack welds; welding out pipe joint in various positions; and proper use and safety of welding equipment. (Prerequisite(s): Must be enrolled in Pipefitters Apprenticeship Training program.) The emphasis will be on the student having a basic understanding of pipe welding in position and how to set up and operate welding machines. They will also have the knowledge and eye-hand coordination to complete a carbon steel pipe weld in a fixed position. 2C/0/2/0

RWLD 2624 Apprenticeship Pipe Welding 4

Introduction to heliarc welding. (Prerequisite(s): Must be enrolled in the Pipefitter apprenticeship program) 2C/0/2/0

RWLD 2627 Apprenticeship Pipe Welding 7

Includes Orbital welding for clean room pharmaceutical and food grade and biomedical application. (Prerequisite(s): Must be enrolled in the Pipefitter apprenticeship program) 2C/0/2/0

RWLD 2660 Apprenticeship Pipe Welding 1 – Advanced

Upon completion of the course, the student/welder will know how to fit up, tack up, and weld out a set of pipe coupons in the 2G, 5G, and 6G positions. Additionally, the student/welder will know how to make a root repair, describe the numbers on the electrodes, give approximate weight of six-inch pipe, and be able to give the proper take-off dimensions for 90-degree and 45-degree weld fittings. Students will build on their knowledge and skills learned in Apprentice Pipe Welding 1. In addition, they will acquire the knowledge of tests parameters for ASME piping specs. 2C/0/2/0

RWLD 2661 Apprenticeship Pipe Welding 2 – Advanced

This is a course on welding carbon steel pipe in position. Areas covered include: cutting, beveling, and prepping pipe; proper lineup technique prior to applying tack welds; welding out pipe joints in various positions; proper use and safety of welding equipment. Emphasis will be on the basic understanding of pipe welding in position, how to set up and operate welding machines, and eye- hand coordination to complete a carbon steel pipe weld in a fixed position. (Prerequisite(s): Must be enrolled in Pipefitters Apprenticeship Training Program) 2C/0/2/0

RWLD 2662 Apprenticeship Pipe Welding 3 – Advanced

The student will be able to perform and heliarc pipe weld in 2, 5, and 6G positions. 2C/0/2/0

RWLD 2663 Apprenticeship Pipe Welding 4 – Advanced

Orbital weld procedure. Students will program a variety of orbital weld machines for various piping entities. Students will understand the equipment and where to acquire necessary information and materials for the correct procedures and applications required for oil refineries, nuclear power house, food grade and pharmaceutical industries. 2C/0/2/0

RWLD 2670 Journeyman Pipe Welding 1

An open lab course to provide opportunities for pipefitting apprentices and journeymen to practice the various types of pipe welding necessary for job opportunities, certification tests, etc. without having to enroll in a formal course with attendance and grade restrictions. 1C/0/1/0

Respiratory Therapist

RESP 1411 Respiratory Care Essentials

This course introduces the basic sciences and concepts required for the study of respiratory care. This includes fundamentals of chemistry, cardiopulmonary anatomy, physiology, mathematics, physics, and an introduction to the equipment used in basic respiratory care. Emphasis will be placed on physical gas laws and metabolic respiration. An introduction to the hospital and the patient's medical record will be provided. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Acceptance into the program major. Must be taken concurrently with RESP 1412) 2C/1/1/0

RESP 1412 Respiratory Care Essentials Lab

This course provides hands-on practice with equipment used in basic respiratory care. This will take place in a supervised lab. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Must be taken concurrently with RESP 1411) 1C/0/1/0

RESP 1510 Cardiopulmonary Pathophysiology 1

This course is an introduction to the assessment and pathophysiology of the patient with cardiopulmonary disease. Emphasis is on assessment of oxygenation, ventilation and acid- Base balance. Students are introduced to pulmonary pathophysiology emphasizing differences in obstructive and restrictive lung disease. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): CHEM 1711, HLTH 1410, HLTH 1420, RESP 1411 and 1412) 3C/1/2/0

RESP 1521 Respiratory Care Therapeutics

This course introduces the student to basic respiratory care therapeutics including: oxygen administration, aerosol delivery devices, bronchial hygiene methods and lung hyperinflation techniques. Specific equipment, indications, contraindications, and adverse reactions associated with each therapeutic procedure are covered. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): CHEM 1711, RESP 1411 and 1412, HLTH 1420; Co-Requisite(s): RESP 1522, RESP 1540) 4C/3/1/0

RESP 1522 Respiratory Care Therapeutics Lab

This course provides demonstrations and hands-on practice in the use of equipment and procedures required for basic respiratory care therapeutics. This will take place in a supervised lab. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Must be taken concurrently with RESP 1521) 1C/0/1/0

RESP 1540 Respiratory Care Pharmacology

This is an in-depth course in cardiopulmonary pharmacology emphasizing drug classification, basic chemistry and action on tissue receptors. Describes indications, actions and dosages of drugs used in cardiopulmonary care. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): CHEM 1711, RESP 1411 and 1412, HLTH 1410 & HLTH 1420; Co-Requisite(s): RESP 1521 and 1522) 2C/1/1/0

RESP 1591 Respiratory Care Clinical 1

Student will have direct patient contact and provide basic patient care procedures as directed by the clinical instructor. Emphasis is on data collection, application of oxygen, aerosol/humidification devices, bronchial hygiene and lung hyperinflation techniques. Students will also collect vital signs, practice physical assessment and auscultation techniques. Student will record appropriate information in patient's chart. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): RESP 1411 and 1412, HLTH 1420; Completion of American Heart Association CPR Course "C." Co-Requisite(s): RESP 1521, 1522, and RESP 1540) 2C/0/0/2

RESP 1592 Respiratory Care Clinical 2

A continuation of clinical practice procedures for administration of routine patient care therapy. Emphasis is on bedside patient assessment and introduction to the critically ill patient. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): RESP 1510, RESP 1520, RESP 1540, RESP 1591; Co-Requisite(s): RESP 2410) 3C/0/0/3

RESP 1593 Respiratory Care Clinical 3

A continuation in clinical practice with emphasis given to acute care therapy. Mechanical ventilation and critical care skills are practiced and evaluated. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): RESP 1592, RESP 2410, RESP 2420) 4C/0/0/4

RESP 1594 Respiratory Care Clinical 4

Continuation of clinical practice skills with emphasis on critical care monitoring and procedures. Students will rotate through pediatrics, long-term care and adult critical care. A cystic fibrosis rotation will also occur during this semester. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): RESP 1593, RESP 2470) 6C/0/0/6

RESP 1596 Respiratory Care Clinical 5

Continuation of clinical practice skills in ICU. Students will rotate through neonatal/pediatric ICU, hemodynamic rotation and adult critical care. Medical Director rounds in the hospital and clinic are completed during this semseter. ACLS certification is obtained this session. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): RESP 1594) 5C/0/0/5

RESP 2411 Mechanical Ventilation

This is an introductory course in the use of mechanical ventilation. Positive and negative pressure machines are discussed, as well as other equipment and procedures related to mechanical ventilation. Methods of monitoring ventilator patient response to therapy are also described. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): RESP 1510, RESP 1521, 1522, RESP 1540, RESP 1591; Co-Requisite(s): RESP 1592) 3C/1/2/0

RESP 2412 Mechanical Ventilation Lab

This course provides hands-on practice in the clinical application and safety of mechanical ventilation. This will take place in a supervised lab. Must be taken concurrently with RESP 2411 Mechanical Ventilation. Must earn a grade of "C" or better in this course to proceed. 1C/0/1/0

RESP 2420 Cardiopulmonary Pathophysiology 2

This course continues the study of cardiopulmonary pathophysiology. Emphasis is placed on specific obstructive, restrictive and hemodynamic abnormalities. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): RESP 1510; Co-Requisite(s): RESP 1592) 1C/0/1/0

RESP 2430 Neonatal/Pediatric Respiratory Care

This course introduces the student to principles of neonatal and pediatric respiratory care. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): RESP 2420) 2C/1/1/0

RESP 2440 Management of the Critically III Patient

This is an advanced course in mechanical ventilation and medical management of the critically ill patient. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): RESP 2411, 2412, and RESP 2420; Co-Requisite(s): RESP 1593) 4C/1/3/0

RESP 2450 Cardiopulmonary Diagnostics

This course will examine cardiopulmonary function studies, the techniques used and the significance of the individual tests with regard to pulmonary disease. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): RESP 2420) 1C/0/1/0

RESP 2470 Registry Review

Advanced study in respiratory care procedures and preparation for the required NBRC entry-level examination. Each student must purchase and successfully complete the NBRC self-assessment entry-level examination. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): RESP 2411, 2412, and RESP 1593) 3C/1/2/0

RESP 2510 Survey of Human Disease

This is a course in human pathology in which all body systems will be studied in relation to common diseases. This course is designed to assist the respiratory care student to acquire a basic knowledge of pathology required for the practice of respiratory care. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): RESP 2411 and 2412) 2C/1/1/0

RESP 2571 Advanced Clinical Life Support Simulation Training

This course is designed to train health program students in advanced life support skills in a simulation lab setting. Students will demonstrate competencies on mock patients in the lab. Students will be videotaped while they perform skills. Training is according to American Heart Association Standards. Upon successful completion of the competencies, students will receive cards documenting their training. Must earn a grade of "C" or better in this course to proceed. 2C/0/2/0

Sheet Metal

SMET 1410 Sheet Metal Fitting Layout & Design

Covers sheet metal layout using parallel line development, radial line development and triangulation. Duct design and sizing will be included. 4C/2/2/0

SMET 1415 OSHA 30 HR Training

Students will be given information on fire, ladders, scaffolding, electrical, cranes and personal protective equipment. Students will be trained in welding shop, sheet metal shop and field safety practices. 2C/2/0/0

SMET 1420 Sheet Metal Fitting Fabrication

Covers the procedures used to fabricate sheet metal fittings. Common seams and fasteners will be described. 4C/1/3/0

SMET 1430 Sheet Metal Drafting & Blueprint Reading

Covers principles of mechanical drawing. Students will interpret sheet metal blueprints. 2C/1/1/0

SMET 1440 Sheet Metal Welding

Covers the four processes used to weld sheet metal: Oxyacetylene, Shielded Metal Arc Welding, Gas Metal Arc Welding (Wirefeed) and Gas Tungsten Arc Welding (Tig or Heliarc). 5C/1/4/0

SMET 1450 Sheet Metal Practical Problem Solving

This course covers math used in the sheet metal trade. 2C/1/1/0

SMET 1510 Duct System Layout & Design

Covers the layout and design of duct systems used for HVAC and industrial ventilation systems. (Prerequisite(s): SMET 1410, SMET 1415, SMET 1420, SMET 1430, SMET 1440, SMET 1450) 4C/2/2/0

SMET 1520 Duct System Fabrication

Covers the fabrication and assembly of various types of duct systems. (Prerequisite(s): SMET 1410, SMET 1415, SMET 1420, SMET 1430, SMET 1440, SMET 1450) 4C/1/3/0

SMET 1530 Architectural Sheet Metal

Covers the fabrication and assembly of various types of architectural sheet metal systems. Installation techniques will also be described. (Prerequisite(s): SMET 1410, SMET 1415, SMET 1420, SMET 1430, SMET 1440, SMET 1450) 4C/2/2/0

SMET 1540 Power Machine Operation

Covers the fabrication of sheet metal items using the power shear, press brake, power rolls, punch press and spotwelder. (Prerequisite(s): SMET 1410, SMET 1415, SMET 1420, SMET 1430, SMET 1440, SMET 1450) 3C/1/2/0

SMET 1550 Sheet Metal CAD/CAM Systems

Covers the setup and operation of plasma cutting systems and computer aided drafting systems. (Prerequisite(s): SMET 1410, SMET 1415, SMET 1420, SMET 1430, SMET 1440, SMET 1450) 3C/1/2/0

Sociology

SOCI 1710 Introduction to Sociology

This course introduces students to sociology: the systematic study of human interaction and society. Major theoretical perspectives and research methods of sociology will be examined. The primary goal is to create an awareness of, and appreciation for, the range of social and cultural variations throughout the United States and worldwide, stressing characteristics shared by all people. Readings and social science examples will be drawn from cultures around the world, including the pluralistic culture of the United States. Another focus of the class is to dispel common myths and stereotypes surrounding society and human behavior. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score.) (MnTC: Goals 5 & 7) 4C/4/0/0

SOCI 1720 Social Problems

This course introduces students to modern issues of societal concern, including social problems that have endured over time and those that have emerged as societies modernize and cultures change. The influence of globalization on cultures around the world will be discussed. Specific topics include: inequalities of race, class, gender, age, and sexual orientation, modern family issues, crime and violence, drugs, war and terrorism, global health, environmental factors affecting society and culture, poverty, and population growth. Critical thinking skills will be developed through class discussions, debates, and course assignments. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score.) (MnTC: Goals 5 & 8) 3C/3/0/0

SOCI 1730 Sociology of Families and Relationships

This course introduces students to the central ideas, challenges, theoretical perspectives and the diversity of human relationships, marriages and families. Global perspectives regarding families and the diversity of intimate relationships in contemporary societies will be discussed. Topics in this course could include the origins of marriage and diverse patterns of love, conflict, sexuality, parenting, single-hood, interpersonal violence, divorce, extended families and gender roles. Reading and examples will be drawn from societies around the world. Common myths and challenges related to stereotypes of the "typical" family and "functional" relationships will be explored. Critical thinking skills will be developed through class discussions, debates and course assignments. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score.) (MnTC: Goals 5 & 7) 3C/3/0/0

SOCI 1740 Sociology of Work

Sociology of Work introduces students to theories, issues and perspectives about work and workplaces in a global economy. The course explores occupations and professions in historical and contemporary settings. The interdependence of economic, social and political factors that shape and change the nature of work are covered within a global context. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score.) (MnTC: Goals 5 & 8) 3C/3/0/0

SOCI 1760 Mass Media and Society

This course provides students with a general understanding of how mass media operates in society and the influence of media messages in the areas of print media, recordings, radio, film, advertising, public relations, digital media and the Web. The course will emphasize basic definitions and the functions of mass media forms and practices; the impact of mass media on society; and major theoretical perspectives and research methods of society will be used to analyze various examples of media. Specific areas of discourse explored in this course may include racism, sexism, heterosexism, ageism, stereotypes, discrimination, violence, and crime. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 5) 4C/4/0/0

SOCI 1765 Sociology of Crime and Deviance

This course will offer students an introduction to the sociological study of crime and deviance. We will examine the major types of crimes, such as violent crime, property crime, cybercrime, white- collar crime, and organized crime. This course will cover major sociological theories used to explain crime and deviance. Students will also learn about the relativity of deviance, how power, social control, and labeling are used to socially construct definitions of deviance, and the consequences of being labeled deviant. Topics in deviance may include suicide, mental illness, obesity, body modification, substance abuse, and sexual diversity. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 7) 3C/3/0/0

SOCI 1766 Juvenile Delinquency

This course is designed to familiarize students with the sociological study of juvenile delinquency in the United States, while simultaneously cultivating an historical and international perspective on delinquency. Topics include the nature of delinquency, means of measuring delinquency, theoretical understandings of delinquency, societal influences upon and responses to delinquency, as well as the development of the juvenile justice system. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC Goals: 5 & 9) 3C/3/0/0

SOCI 1772 Introduction to Criminal Justice

This course will introduce students to the major components of the American Criminal Justice System; specifically, the police, corrections and the courts. Students will discuss the various types of crime and how crime is measured. Additional topics may include: a brief history of crime and punishment, the development of the criminal justice system, causes of crime and victimization, styles of policing, levels of the court system, philosophies of punishment, juvenile justice and prison life. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 9) 3C/3/0/0

SOCI 1774 Introduction to Corrections

This is an introductory course designed to provide students with an overview of the problems and ethical dilemmas that face America's correctional system. The institution of corrections is not only a study of our prison system but is, in fact, the study of a complex network of societal relationships and institutions. This course examines the history, present, and future of U.S. corrections. The role of penitentiaries, prisons, jails, and grass roots organizations is explored along with the concepts of punishment, rehabilitation, retribution, restoration and transformation. (Prerequisite(s): Grade of "C" or better in READ 0721 or appropriate assessment score) (MnTC: Goals 5 & 9) 3C/3/0/0

SOCI 1776 Probation, Parole and Alternative Sentencing

This course is designed to introduce students to the fields of probation and parole. We will examine a variety of community-based correctional practices and strive to understand the roles of individuals who work within community programming. Most importantly, we will begin to gain an understanding of those individuals who receive the services of these fields. The ultimate goal of this course is for students to develop their ability to critically examine a diverse range of correctional programming. (Prerequisite(s): Grade of "C" or better in READ 0721 or appropriate assessment score) (MnTC: Goals 5 & 9) 3C/3/0/0

SOCI 1780 Social Psychology

This course focuses on social psychological theories and research to analyze how an individual's thoughts, feelings and actions influence other people, social settings and institutions. Topics include perception, attribution, socialization, attitudes, conflict, altruism, groups, power, conformity, prejudice, collective behaviors and social movements. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score.) (MnTC: Goals 5 & 7) 4C/4/0/0

SOCI 1790 Special Topics in Sociology

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score. (MnTC: Goal 5) Variable credits 1-6

Spanish

SPAN 1710 Beginning Spanish 1

An introduction to Spanish based on real-life situations, as well as an introduction to various aspects of Hispanic societies. Comprehension and basic speaking skills are emphasized. Some reading and writing is required. The overall goal of this course is to provide students with the linguistic foundation necessary to later achieve proficiency in the Spanish language. No previous knowledge of Spanish is necessary. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 8) 5C/4/1/0

SPAN 1720 Beginning Spanish 2

A continuation of SPAN 1710. Emphasis is on extending skills in everyday spoken Spanish. (Prerequisite(s): SPAN 1710 with a grade of "C" or better or Placement Exam or instructor approval) (MnTC: Goal 8) 5C/4/1/0

SPAN 1730 Intermediate Spanish 1

This course provides continued development of communication in reading, writing, listening and speaking. There is an emphasis on communicating ideas in writing and conversation. As a part of the course, students will be exposed to the cultures of Spanish- speaking people through art, literature and history. (Prerequisite(s): SPAN 1720 with a grade of "C" or better or Placement Exam or instructor approval) (MnTC: Goals 6&8) 5C/4/1/0

SPAN 1740 Intermediate Spanish 2

This course is a continuation of SPAN 1730. The course provides continued development of communication in reading, writing, listening and speaking. There is an emphasis on communicating ideas in writing and conversation. As a part of the course, students will be exposed to the cultures of Spanish speaking people through art, literature and history. This course is usually offered during the spring term (Prerequisite(s): SPAN 1730 with a grade of "C" or better, or Placement Exam or instructor approval) (MnTC: Goals 6 & 8) 5C/4/1/0

SPAN 1790 Spanish for the Workplace

An introduction to basic Spanish conversational communication focusing on the specific context and situations of the workplace. The aim of this course is to achieve a basic level of proficiency in conversational Spanish to exchange information and perform basic everyday tasks. This class may be offered for specific career industries such as the Hospitality or Healthcare industries. When this happens, the career industry will be specified in the title. No previous knowledge of Spanish is necessary. This course is usually offered during the summer term. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goal 8) 3C/3/0/0

SPAN 1795 Special Topics in Spanish

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goal 8) Variable credits 1-6

Speech

SPCH 1700 Introduction to Speech Communications

This course introduces the various principles of spoken human communication. Students will explore and practice the principles of effective oral communication within contexts of 21st Century life. Instructional methodologies instruct students on computer- mediated communication issues as well as international audience analysis and multi-cultural demands of interpersonal dyads. Students will first practice the basic skills of this discipline and then demonstrate how to adapt these abilities to practical applications in both personal and business environments, within various situations. (MnTC: Goals 1 & 8) 3C/3/0/0

SPCH 1710 Fundamentals of Public Speaking

This course covers the basic principles of preparing, researching, and delivering informative, persuasive, impromptu, and extemporaneous speeches. Instructional methodologies instruct students on computer-mediated communication issues as well as international audience analysis and multi-cultural demands of public speaking venues. In addition, this course will include audience analysis and suggestions for overcoming speech anxiety. Students will analyze and evaluate the arguments and rhetorical methods used in public communication. (MnTC: Goals 1 & 8) 3C/3/0/0

SPCH 1720 Interpersonal Communication

This course focuses on the practical and theoretical concepts of human communications and the styles used in personal, social and professional environments. Students will also acquire skills in critical thinking, perception, listening, verbal and non-verbal expressions and conflict resolution. Students will evaluate their individual strengths and weaknesses in depth and develop techniques to improve interpersonal relations. (MnTC: Goals 1 & 7) 3C/3/0/0

SPCH 1730 Intercultural Communication

This course will study the influence of cultural differences on communication from both the sender and receiver of information. The course views the human communication process as it is influenced by nationality, ethnicity, linguistic development and gender. The course will explore the ways in which culture can shape the view of "reality" held by its members and influence communication patterns and cross- cultural relationships. Specifically, the United States cultural orientations will be compared to those in other regions of the world. (MnTC: Goals 1 & 8) 3C/3/0/0

SPCH 1740 Mass Media and Communications

The influence of mass media communications on today's culture is an important issue in the United States and throughout many parts of the world. Students will research the influence of mass media on society. Topics include: advertising, propaganda, ethics, First Amendment issues, the role of government, literacy requirements of a digital world, and problems and criticisms of media. (Prerequisite(s): Grade of "C" or better in READ 0721 or appropriate assessment score) (MnTC: Goals 5 & 9) 3C/3/0/0

SPCH 1750 Small Group Communication

In this course students will study communication in small groups. Topics include effective group communication theory and skills; group leadership, cohesion and roles; conflict resolution and decision making; planning and conducting meetings; and parliamentary procedure. The course explores group functioning in a variety of settings, including the workplace. There is an emphasis on the practical application of the content and the practice of oral communication skills. (MnTC: Goals 1 & 9) 3C/3/0/0

SPCH 1770 Family Communication

This course centers upon the human communication process from within the contextual dimensions of diverse family units. Elements of study include family patterns and functions, that drive communication, relationship development and its barriers, and family role definitions and functions. The course is designed to provide a sense of understanding of how a family communicates, and the forces which influence the family unit, from both the inside and outside of various family configurations. (MnTC: Goals 1 & 7) 3C/3/0/0

SPCH 1780 Gender Communication

This course explores the many interconnected aspects of gender communication, enabling students to experience how gender, within communication and culture, creates, maintains, and changes interpersonal relationships. Communication contexts covered in the course will include family, friendships, education, the media, the workplace, and other markers of identity. (MnTC: Goals 1 & 7) 3C/3/0/0

SPCH 1790 Special Topics in Speech

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goal 1) Variable credits 1-6

Supply Chain Logistics

BSLM 1410 Transportation Management

Introduction to basic transportation concepts and the relevance of transportation in our economy. Characteristics of each mode of transportation including rail, highway, carrier pricing, pipelines, air and water will be discussed and evaluated. 3C/3/0/0

BSLM 1510 Distribution Management

Designed to clarify and define the primary role of warehousing and logistics in today's economy. This course includes inventory control, material handling equipment, just-in-time productivity and quality control. 3C/3/0/0

BSLM 2420 Supply Chain Management

Supply chain management provides training in the areas of efficient administration and control of logistical components: transportation, inventory, packaging, warehousing, materials handling, customer service and their eventual integration into a logistics system. 4C/4/0/0

BSLM 2450 Purchasing Principles and Applications

The course covers a broad overview of the objectives of Purchasing; its authority, responsibility, management function and expectations. Students learn how and why the purchasing function has far-reaching effects on a company's profit or loss. Purchasing is a dynamic business function and is important in controlling costs in large dollar expenditures. The Purchasing department deals with Production, Engineering, Marketing, Sales, Logistics, Stores, Inventory Control, Transportation, Quality Assurance and Finance. The primary objective of purchasing is to buy the right materials, of the right quality, in the right quantity, at the right time, at the right price, from the right source. 3C/3/0/0

BSLM 2491 Business Logistics Management Internship

Students who participate in an internship gain first-hand knowledge in the industry under the guidance of a faculty member and a worksite supervisor. Students must state their goals and planned outcomes to participate in an internship. (Prerequisite(s): Instructor approval) Variable credits 1–3

BSLM 2497 Business Logistics Management Special Topics

The intent of this course is to allow flexibility in providing learning experiences to meet a special need of the student, the major program and the College. (Prerequisite(s): Instructor approval) Variable credits 1–3

Theatre and Drama

THTR 1710 Introduction to Theatre

This course introduces students to the study and exploration of theatre. Students will study the diversity of drama and explore the methods and styles of actors, directors, playwrights and designers. (MnTC: Goal 6) 3C/3/0/0

THTR 1716 Theatre Around the World

This course provides an introduction to the diverse theatrical styles and plays performed around the world. Students will explore a variety of theatre focusing on Eastern and Western cultures around the globe exploring the cultural, historical, social, religious, and linguistic significance of this work. Students will examine the aspects that go into creating these forms of theatre including, acting, design, and stagecraft. Students will explore these forms of theatre and their impact on theatre around the world today. (Prerequisite(s): READ 0722 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 6 & 8) 3C/3/0/0

THTR 1720 Exploring the Theatre Arts

This course provides an introduction to the study of the various forms of theatrical arts and sciences. Students will participate in dramatic readings, acting, improvisation, stagecraft, costuming, stage management, scenic design, dramatic analysis and related practicum of the business of theatre. Students will visit local productions to assist in their understanding of the activities of theatrical professionals. (MnTC: Goal 6) 3C/3/0/0

THTR 1725 Acting 1

This course provides students an Introduction to Acting. Students engage in physical and vocal exercises training the actor's voice and body. Students will also develop the skills to respond critically to theatrical performances. Students engage in vocal and physical warmups and exercises, read and analyze plays, use improvisation towards developing characters in scenes from a variety of plays. (Prerequisite(s): Grade of "C" or better in READ 0722 or appropriate assessment score) (MnTC: Goal 6) 3C/3/0/0

THTR 1730 Theatre Stagecraft and Production

This course provides an introduction to Theatre Stagecraft and Production with units on acting, stage movement, set construction, painting, lighting, special effects, and scenic design, among other topics. Participation in current theatre production is required. This course may be repeated for credit. (MnTC: Goal 6) 3C/3/0/0

THTR 1740 Fundamentals of Playwriting – Playwriting 1

This course focuses on the skills necessary for writers who write for the stage rather than the page. Students work to develop an ability to create stage plots and dialogue. Through a series of writing and reading activities, exercise and assignments, students work to explore character, conflict and drama through their writing. Students also work through writing exercises to develop the skills to structure a play with a clear beginning, middle and end. Students are encouraged to develop their work and the course culminates in a reading of short plays. (Prerequisite(s): READ 0722 Reading 2 with a grade of "C" or better, ENGL 1415 Fundamentals of Writing 2 with a grade of "C" or better, or appropriate assessment score) (MnTC Goal: 6) 3C/3/0/0

THTR 1790 Special Topics in Drama and Theatre

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goal 6) Variable credits 1-6

THTR 2725 Acting 2

This course provides students continued study in acting skills. Students work to develop and exercises basic acting skills through practical application of the fundamental elements of the actor's art and work. Students will become more familiar with the actor's tools and a variety of acting techniques and the best ways to utilize them. Students engage in more detailed physical and vocal exercises training the actor's voice and body. Students read and analyze plays and develop character analysis and script analysis skills. Through acting exercises, activities, development of acting techniques, and scene work, students will develop the skills required to create three-dimensional characters in scene work. (Prerequisite(s): THTR 1725 Acting 1 or instructor approval) (MnTC: Goal 6) 3C/3/0/0

Truck Technician

TRKM 1400 Introduction and Safety

This course will introduce the student to the trucking industry and the role of the student as a truck technician within this industry. Personal, shop, tool and environmental safety will be emphasized. 1C/0/1/0

TRKM 1445 Truck Welding 1

Beginning course includes a combination of oxyacetylene welding, cutting, arc and MIG welding in a limited time. Basic shop procedures and safety are emphasized as is proper care of tools and equipment. Instruction will be conducted by lecture- demonstrations and shop practice. Practice on four basic joints in three basic positions is provided. Building an understanding and skill in the use of welding and manual cutting equipment are developed. 2C/0/2/0

TRKM 1455 Truck Welding 2

Continuation of skills developed in TRKM 1445. Includes advanced Arc and MIG welding techniques for frame repair in the trucking industry. Emphasis on safety procedures. 2C/0/2/0

TRKM 1521 Electrical 1

This course covers the design, theory of operation, repair procedures, and diagnosis of batteries, lighting systems, instruments and accessories used in commercial trucks. 5C/1/4/0

TRKM 1522 Electrical 2

This course covers the design, theory of operation, repair procedures and diagnosis of starting systems, charging systems and an introduction to electronic systems used in commercial trucks. 5C/1/4/0

TRKM 1551 Clutch and Transmission

This course covers the design, theory of operation, repair procedures, and diagnosis of clutches and manual transmissions used in commercial trucks. 5C/1/4/0

TRKM 1552 Driveshafts and Differentials

This course covers the design, theory of operation, repair procedures and diagnosis of drive shafts and differentials used in commercial trucks. 4C/1/3/0

TRKM 1553 Automatic and Automated Transmission

This course covers the design, theory of operation, repair procedures, and diagnosis of automated manual transmissions and automatic transmissions used in commercial trucks. 4C/1/3/0

TRKM 1560 Truck Brake Systems

This course covers the design, theory of operation, repair procedures, and diagnosis of hydraulic and air brake systems used in commercial trucks. 6C/1/5/0

TRKM 2401 Steering and Suspension Systems

This course covers the design, theory of operation, repair procedures, and diagnosis of steering, suspension and chassis components used in commercial trucks. 6C/1/5/0

TRKM 2425 Truck Cab Climate Control Systems

This course covers the design, theory of operation, repair procedures, and diagnosis of the heating, ventilation and air conditioning systems used in commercial trucks. 3C/1/2/0

TRKM 2440 Gasoline Engines

This course covers the design, theory of operation, repair procedures, and diagnosis of gasoline engine fuel and ignition systems used in commercial trucks. Engine overhaul procedures will also be covered. 6C/1/5/0

TRKM 2511 Diesel Engines 1

This course covers the design, theory of operation, repair procedures, and diagnosis of diesel engines used in commercial trucks. 6C/1/5/0

TRKM 2512 Diesel Engines 2

This course covers the design, theory of operation, repair procedures, and diagnosis of mechanical and electronic fuel systems used on diesel engines in commercial trucks. 6C/1/5/0

TRKM 2540 Preventive Maintenance

This course covers the preventive maintenance practices used to keep commercial trucks and trailers in proper and safe working order. Shop procedures, record keeping, computer use and job seeking skills will also be covered. 3C/1/2/0

Welding Technology

WLDG 1400 Industrial Shop Practices 1

This core course covers all the required safety instruction for all the 1400 category welding processes and the related shop equipment used. Instruction on welding equipment set-up and parameter settings along with welding theory will be covered for all welding processes. Students will be able to identify and demonstrate proper safety practices and usage on shop and welding equipment. (Co-Requisite(s): WLDG 1400-1450 will be taken in succession within the same semester block) 4C/4/0/0

WLDG 1410 Welding Basics

This introductory course will cover shop safety practices, the theories and concepts necessary for an understanding of basic oxyacetylene welding, cutting and brazing processes. Emphasis will be on safe work habits based on current industry standards. It will also cover carbon arc and plasma arc cutting. (Co-Requisite(s): WLDG 1400-1450 will be taken in succession within the same semester block) 2C/0/2/0

WLDG 1420 SMAW: E6010

This course covers the introduction of the theories and concepts necessary for the SMAW process using the E6010 electrode in the various welding positions, according to current industry and AWS standards. Instruction on the use, care and safety practices of SMAW equipment will also be emphasized. (Co-Requisite(s): WLDG 1400-1450 will be taken in succession within the same semester block) 2C/0/2/0

WLDG 1430 SMAW: E7018

Covers the manipulative skills and procedures required to attain entry level proficiency of E7018 Shielded Metal Arc welds in all positions. Weld plate testing procedures will be offered allowing the student the opportunity to achieve qualification. (Co-Requisite(s): WLDG 1400-1450 will be taken in succession within the same semester block) 3C/0/3/0

WLDG 1440 GMAW Short Arc

Provides students with the opportunity to build proficiency in the GMAW (Gas Metal Arc Welding) process using the short arc transfer on mild steel. All positions will be covered. Students will be expected to work to industry and AWS standards for apprentice welders in the area of quality and efficiency. (Co-Requisite(s): WLDG 1400-1450 will be taken in succession within the same semester block) 2C/0/2/0

WLDG 1450 Intro to Blueprint/Measuring Devices

This course is designed to cover such fundamental principles of drawing interpretation as may be required by a layout welder and setup person. To accomplish this objective, basic lines and blueprint viewing functions are studied and projects are assigned to reinforce base knowledge. This course also covers the use of different measuring devices used in the welding trades. (Co-Requisite(s): WLDG 1400-1450 will be taken in succession within the same semester block) 3C/3/0/0

WLDG 1500 Industrial Shop Practices 2

This core course covers all the required safety instruction for all the 1500 category welding processes and the related shop equipment used. Instruction on welding equipment set-up and parameter settings along with welding theory will be covered for all welding processes. Students will be able to identify and demonstrate proper safety practices and usage on shop and welding equipment. (Prerequisite(s): Must complete 1st semester core group 1400-1450 prior to advancing to 2nd semester core group 1500-1540; Co-Requisite(s): WLDG 1500-1540 will be taken in succession within the same semester block) 4C/4/0/0

WLDG 1510 GMAW Spray and Pulse Spray

Provides students with the opportunity to build proficiency in the GMAW process using the spray and pulse spray transfers on mild steel. All positions will be covered. Students will be expected to work to industry standards for apprentice welders in the area or quality and efficiency. Weld testing plate procedures will be offered allowing the student the opportunity to achieve qualification. (Prerequisite(s): Must complete 1st semester core group 1400-1450 prior to advancing to 2nd semester core group 1500-1540; Co-Requisite(s): WLDG 1500-1540 will be taken in succession within the same semester block) 3C/0/3/0

WLDG 1520 GMAW Core Wires

Designed to build proficiency in FCAW, FCAW-G, Metal Core and SAW processes. The student will be expected to perform to industry standards as required for apprentice welders. Weld plate testing procedures will be stressed, allowing the student the opportunity to achieve qualification. (Prerequisite(s): Must complete 1st semester core group 1400-1450 prior to advancing to 2nd semester core group 1500-1540; Co-Requisite(s): WLDG 1500-1540 will be taken in succession within the same semester block) 3C/0/3/0

WLDG 1530 Intro to GTAW

Provides students with the opportunity to build proficiency in the GTAW process on mild steel in all positions. The student will be expected to work to industry and AWS standards for apprentice welders in the area of quality and efficiency. (Prerequisite(s): Must complete 1st semester core group 1400-1450 prior to advancing to 2nd semester core group 1500-1540; Co-Requisite(s): WLDG 1500-1540 will be taken in succession within the same semester block) 3C/0/3/0

WLDG 1540 Blueprint Welding Symbols/Math/Welder

Qualification This course will focus on the knowledge of welding symbols as specified by the American Welding Society, (AWS). Welding inspection and welder qualification procedures will also be covered. (Prerequisite(s): Must complete 1st semester core group 1400-1450 prior to advancing to 2nd semester core group 1500-1540; Co-Requisite(s): WLDG 1500-1540 will be taken in succession within the same semester block) 3C/3/0/0

WLDG 2400 Industrial Shop Practices 3

This core course covers all the required safety instruction for all the 2400 category welding processes and the related shop equipment used. Instruction on welding equipment set-up and parameter settings along with welding theory will be covered for all welding processes. Students will be able to identify and demonstrate proper safety practices and usage on shop and welding equipment. (Prerequisite(s): Must complete 1st & 2nd semester core groups 1400-1540 prior to advancing to 3rd semester core group 2400-2440; Co-Requisite(s): WLDG 2400-2440 will be taken in succession within the same semester block) 4C/4/0/0

WLDG 2410 GMAW Aluminum and SST

Provides students with the opportunity to build proficiency in the GMAW process using both Aluminum and Stainless Steel. The introduction of the Aluminum and Stainless numbering system will be covered. Students will be expected to perform to industry and AWS standards as required for apprentice welders in the areas of quality and efficiency. (Prerequisite(s): Must complete 1st & 2nd semester core groups 1400-1540 prior to advancing to 3rd semester core group 2400-2440; Co-Requisite(s): WLDG 2400-2440 will be taken in succession within the same semester block) 2C/0/2/0

WLDG 2420 GTAW Aluminum and SST

Provides students with the opportunity to build proficiency in the GTAW process using aluminum & stainless steel in various weld positions. Aluminum & Stainless numbering systems will also be reviewed. Students will be expected to perform to industry and AWS standards as required for apprentice welders in the areas of quality and efficiency. (Prerequisite(s): Must complete 1st & 2nd semester core groups 1400-1540 prior to advancing to 3rd semester core group 2400-2440; Co-Requisite(s): WLDG 2400-2440 will be taken in succession within the same semester block) 4C/0/4/0

WLDG 2430 Grinding and finishing

Designed to create an in-depth knowledge of abrasives and equipment used in the welding & fabricating industry. Students will gain proficiency in both grinding and high grade finishing on various base materials according to paint, food and pharmaceutical standards. (Prerequisite(s): Must complete 1st & 2nd semester core groups 1400-1540 prior to advancing to 3rd semester core group 2400-2440; Co-Requisite(s): WLDG 2400-2440 will be taken in succession within the same semester block) 2C/1/1/0

WLDG 2440 Intro to Robotic Welding and Fabrication

Designed as an introduction to robotic welding as it applies to manufacturing. Students will be given specified projects in order to develop fabrication techniques used in industry. (Prerequisite(s): Must complete 1st & 2nd semester core groups 1400-1540 prior to advancing to 3rd semester core group 2400-2440; Co-Requisite(s): WLDG 2400-2440 will be taken in succession within the same semester block) 4C/1/3/0

WLDG 2500 2D CAD

This course introduces the practices and procedures for the use of Radan software in the Fabrication field. Students will be required to work within industry standards for 2D CAD blueprint drafting. (Prerequisite(s): Must complete 1st, 2nd & 3rd semester core groups 1400-2440 or receive instructor approval prior to advancing to 4th semester Advanced Certificate 2500-2570; Co-Requisite(s): WLDG 2500-2570 will be taken in succession within the same semester block) 2C/2/0/0

WLDG 2510 Safety

Designed to give students safety and operational instruction on all shop equipment required in the 2500 series certificate. Students will demonstrate correct safety procedures required in all the automated fabrication processes. (Prerequisite(s): Must complete 1st, 2nd & 3rd semester core groups 1400-2440 or receive instructor approval prior to advancing to 4th semester Advanced Certificate 2500-2570; Co-Requisite(s): WLDG 2500- 2570 will be taken in succession within the same semester block) 1C/1/0/0

WLDG 2520 CNC Plasma

This course is designed to expose the student to CNC functions utilizing M & G coding Editing and perform CNC programing functions. Students will use proper safety equipment set up procedures and perform CNC operations according to industry standards. (Prerequisite(s): Must complete 1st, 2nd & 3rd semester core groups 1400-2440 or receive instructor approval prior to advancing to 4th semester Advanced Certificate 2500-2570; Co-Requisite(s): WLDG 2500-2570 will be taken in succession within the same semester block) 2C/1/1/0

WLDG 2530 Press Brake Operations

Designed to build proficiency in sheet metal fabrication the student will be expected to work within industry standards using math formulas, bend allowances and measuring instruments as required for apprentices. Students will program the CNC press to achieve correct bending outcomes to industry requirements. (Prerequisite(s): Must complete 1st, 2nd & 3rd semester core groups 1400-2440 or receive instructor approval prior to advancing to 4th semester Advanced Certificate 2500-2570; Co Requisite(s): WLDG 2500-2570 will be taken in succession within the same semester block) 3C/1/2/0

WLDG 2540 Robotic Welding Operations

Designed to build proficiency in fabrication skills beyond the previous diploma courses. The student will be expected to work within Industry standards as for apprentice fabricators using robotic programing, set up procedures, trouble shooting and repair of robotic functions. (Prerequisite(s): Must complete 1st, 2nd & 3rd semester core groups 1400- 2440 or receive instructor approval prior to advancing to 4th semester Advanced Certificate 2500-2570; Co-Requisite(s): WLDG 2500-2570 will be taken in succession within the same semester block) 3C/1/2/0

WLDG 2550 Industrial Equipment

Designed to build proficiency in the metal fabricating field, the student will be expected to perform within industry standards for apprentice welders/fabricators. The student will be introduced to lifting devices which are encountered in live work situations, using fork truck and overhead cranes. (Prerequisite(s): Must complete 1st, 2nd & 3rd semester core groups 1400-2440 or receive instructor approval prior to advancing to 4th semester Advanced Certificate 2500-2570; Co-Requisite(s): WLDG 2500-2570 will be taken in succession within the same semester block) 2C/1/1/0

WLDG 2560 Layout Practices

Course 2560 will allow the student to demonstrate knowledge of manufacturing layout and planning through designated projects. These projects will require the student to use advanced techniques in design, layout and fabrication processes used in industry. (Prerequisite(s): Must complete 1st, 2nd & 3rd semester core groups 1400-2440 or receive instructor approval prior to advancing to 4th semester Advanced Certificate 2500-2570; Co-Requisite(s): WLDG 2500-2570 will be taken in succession within the same semester block) 4C/1/3/0

WLDG 2570 Robotic Welding Capstone

Through this capstone offering, students will have the opportunity to meet specified credit requirements utilizing shop experiences approved by the overseeing Instructor. (Prerequisite(s): Must complete 1st, 2nd & 3rd semester core groups 1400-2440 or receive instructor approval prior to advancing to 4th semester Advanced Certificate 2500-2570; Co-Requisite(s): WLDG 2500-2570 will be taken in succession within the same semester block) 1C/0/1/0

WLDG 2590 Welding Special Projects

The intent of this course it to allow flexibility in providing learning experiences to meet a special need of the student, the major program and the College. (Prerequisite(s): Instructor approval) Variable credits 1-4

Women's and Gender Studies

WGST 1785 Foundations in Women's Studies

This course serves as an introduction to the field of women's and gender studies. Using an interdisciplinary approach, the course examines the conditions and circumstances affecting the lives of (primarily) women in the United States. The course explores the roles that women play in society, with careful attention to the ideas and factors that shape those roles. Students will examine how ideas about gender (as well as race, ethnicity, social class, sexual orientation, physical ability and age) are informed by institutions, cultural beliefs, and social practices. Throughout the course, emphasis is placed on the diversity of women's experience in contemporary United States and connections to women worldwide. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC Goals: 5 & 9) 3C/3/0/0

WGST 1790 Special Topics in Women's and Gender Studies

This course is designed to present additional or unique material and learning experiences within a specified discipline. The course will be based on student need, flexibility, and may be designed to meet various transfer and pre-major course requirements. Please see a current Course Schedule for complete course details. (MnTC: Goals 5 & 9) Variable credits 1-6

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Directions & Parking

Easy to Find. Easy to Get To.

From the South (35E)

Take the Kellogg Boulevard Exit, turn left. Continue to John Ireland Boulevard, turn left at the traffic light. Continue to Marshall Avenue, turn right.

From the North (35E) or From the East (I-94W)

Take the Marion Street Exit, turn left passing over the freeway. Continue on Kellogg Boulevard to John Ireland Boulevard, turn right at the traffic light. Continue to Marshall Avenue, turn right.

From the West (I-94E)

Take the Marion Street Exit, at the top of the exit ramp take a right onto Kellogg Boulevard. Turn right at traffic light onto John Ireland Boulevard. Continue to Marshall Avenue, turn right.

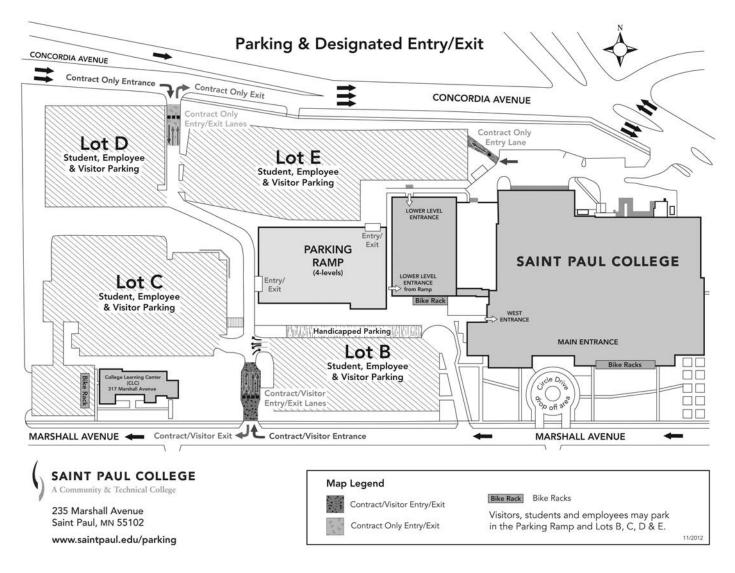
Bus Information

Saint Paul College is also easy to reach by bus. Routes 12, 21, 65, 94B and 94L service the College directly. Other routes such as 5, 9, 10, 14, 15 and 31 drop off passengers within walking distance of the College.

Visitor Parking

Visitor parking is available in any open, undesignated space in the Parking Ramp or Lot B, C, D or E.

Enter parking lot via Marshall Avenue.



For the most up-to-date information about parking and fees, go to the College Website: www.saintpaul.edu/parking

Parking Information

Parking Lots/Designated Parking Areas

For the most up-to-date information about parking and fees, please see the College Website: www.saintpaul.edu/parking

Parking Policy

It is mandatory for all motor vehicles parked on the Saint Paul College campus to use the controlled parking access system. Visitors may park anywhere in the lots and ramp except for marked reserved spaces. Vehicles parked in handicapped parking spaces require a valid State-Issued Handicapped Permit. All violators will be ticketed.

Regulations

All persons operating a vehicle on campus are responsible for being familiar with, and complying with, all traffic and parking regulations. A complete list of parking violations and parking policy may be obtained from the Office of Public Safety on the first floor. Saint Paul College assumes no liability for care of, damage to, and/or protection of any vehicle or its contents at any time while it is operated on or parked on the campus property. Possession of a parking access card neither reserves nor guarantees a parking space.

Motorcycle Parking:

Motorcycle parking is available in the designated parking areas by the Kellogg Boulevard and Marshall Avenue entrances. Visitors with motorcycles can park in either the upper or lower lot designated motorcycle parking area; however, visitors must use the Marshall Avenue entrance and then exit at Marshall Avenue by paying the hourly rate when leaving. The cement motorcycle parking areas are located to the left of the Kellogg Boulevard entrance in the lower lot and in the upper lots at the east end of Lot B.

NO PARKING ZONES:

- Any restricted parking space without a proper parking tag.
- Any handicapped space without a legally displayed sticker or license plate.
- Fire lanes. This includes leaving room for a minimum of two vehicles to pass at the end of each row.
- In front of any garage doors.
- Any Right-of-Way areas. This includes the area north of the Truck and Fabrication Shops to allow for oversized vehicle maneuvering.
- Any areas not paved or designated for parking. This includes sidewalks, curbs, and lawns.

If You Receive a Citation for a Parking Violation

Payment is to be directed to the Tuition Office and requires a copy of the citation. Payment is due fifteen (15) business days from the date the citation was issued. Checks are to be made payable to Saint Paul College. You may appeal your citation within fifteen (15) business days from the date the citation was issued. Appeal forms are available at the Public Safety Desk. The form must be filled out completely to be considered. If you fail to pay your parking citation(s), the fine(s) will be placed on your student record. If the ticket goes unpaid, a hold will be placed on your account and you will be unable to get a copy of your transcript or register until the fine is paid. Unpaid tickets will be processed through the college's normal collection process and the debt may be submitted to Minnesota Department of Revenue for collection.

It is mandatory that all motor vehicles parked on the Saint Paul College campus use the parking access system to go in and out of the parking lot.



For more information

If you need more information, please contact us. We will be glad to answer your questions.

Visit our Web site: www.saintpaul.edu

E-mail: starthere@saintpaul.edu

General information: 651.846.1600

Schedule a "Start Here" information session: www.saintpaul.edu/StartHere





Minnesota state colleges & universities



A Community & Technical College

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