



2013 – 2014 Catalog



SAINT PAUL COLLEGE
A Community & Technical College

start here.
go anywhere.

SAINT PAUL COLLEGE

2013–2014 CATALOG

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



SAINT PAUL COLLEGE

A Community & Technical College

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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Information Directory

General Information	651.846.1600
TTY – Minnesota Relay	7-1-1
Fax	651.846.1703
Academic Success Coordinators	651.846.1357
www.saintpaul.edu/AcademicSuccess	
Alumni Relations	651.846.1469
www.saintpaul.edu/Alumni	
Assessment, Intake	651.846.1555
www.saintpaul.edu/Assessment	
Bookstore	651.846.1422
Textbook Look-up	www.saintpaulcollegebookstore.com
Career and Placement Center	651.846.1384
www.saintpaul.edu/CareerCenter	
Child Care Center	651.846.1581
Counseling	651.846.1383
Disability Services	651.846.1547
www.saintpaul.edu/DisabilityServices	
English for Speakers of Other Languages (ESOL)	651.846.1555
www.saintpaul.edu/ESOL	
Enrollment Services	651.846.1555
www.saintpaul.edu/Admissions	
Financial Aid	651.846.1386
www.saintpaul.edu/FinancialAid	
Foundation/Friends of Saint Paul College	651.846.1469
www.friendsofsaintpaulcollege.org	
IT Services/Help Desk	651.846.1440
Library/Learning Commons	651.846.1489
Public Safety	651.846.1322
Registration & Student Records	651.846.1515
www.saintpaul.edu/Registration	
Student Life	651.846.1659
www.saintpaul.edu/StudentLife	
Student Records and Transcripts	651.846.1515
Transfer Center	651.846.1739
www.saintpaul.edu/TransferCenter	
Tuition Office	651.846.1395
www.saintpaul.edu/Tuition	
Tutoring/Academic Support	651.846.1623
www.saintpaul.edu/Tutoring	
Veterans Educational Benefits	651.846.1372

College Calendar 2013-14

Fall Semester 2013

August 26, 2013 – December 20, 2013

Fall Semester Begins	08/26/13
Labor Day – College Closed	08/31 – 09/02/13
Saturday Classes Begin	09/07/13
No Classes	10/17 – 10/18/13
Veterans Day – College Closed	11/11/13
Thanksgiving – College Closed	11/28 – 12/01/13
Saturday classes end	12/14/13
Final Exams	12/14 – 12/20/13
Fall Semester Ends	12/20/13

Spring Semester

January 13, 2014 – May 16, 2014

Spring Semester Begins	01/13/14
Saturday Classes Begin	01/18/14
Martin Luther King Holiday –Closed	01/20/14
No classes after 6:00pm – Precinct Caucus	02/04/14
Presidents' Day Holiday – College Closed	02/17/14
Professional Development	02/18/14
<i>No classes before 4:00 pm</i>	
Spring Break	03/10 – 03/16/14
Student Success Day	03/27/14
Saturday classes end	05/10/14
Final Exams	05/10 – 05/16/14
Graduation Ceremony 2013/2014	05/15/14
Spring Semester Ends	05/16/14

Summer Term

June 2, 2014 – July 25, 2014

Summer Term Begins	06/02/14
Independence Day – College Closed	07/04/14
Final Exams	07/21 – 07/25/14
Summer Term Ends	07/25/14

2013 - 2014 Holidays – Campus Closed

Labor Day Weekend	Aug 31 – Sept 2, 2013
Veterans Day Holiday	November 11, 2013
Thanksgiving Holiday	Nov 28 – Dec 1, 2013
Martin Luther King Day	January 20, 2014
Presidents' Day	February 17, 2014
Independence Day	July 4, 2014

Calendar is subject to change.

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

Welcome to *your* Saint Paul College

The mission of Saint Paul College is to provide
“Education for Employment...Education for Life.”



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!

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 wonderful campus community.

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!

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 indeed 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.

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 thousands of students for employment or transfer to four-year colleges and universities, both inside and outside the state of Minnesota. To date, we have graduated over 40,000 students.

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 is known for student engagement in active and collaborative learning, student-faculty interaction, and support for learning. If you are looking for a caring, supportive, and nurturing 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.

Learn more about the College and services for students, programs and career opportunities by exploring our Web site at www.saintpaul.edu or scheduling an on-campus visit.

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

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.



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

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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 by: The American Culinary Federation Education Foundation's Accrediting Commission (ACFEF), The Committee on Accreditation for Respiratory Care, the National Accrediting Agency for Clinical Laboratory Sciences and the National League for Nursing Accrediting Commission. The Practical Nursing Program is approved by the Minnesota Board of Nursing. Business programs are accredited by the 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 two-year and four-year colleges and universities in the Minnesota State Colleges and Universities system. The College's in the system provide a wide array of opportunities for lifelong education in academic and technical fields, ranging from short-term certificate programs to masters degrees. Approximately 33,500 students graduate from Minnesota State Colleges and Universities each year. Refer to the System Web site www.mnscu.edu for further information.

Alliances and Memberships

Students, Alumni & the Employer Connection

Saint Paul College offers undergraduate programs of two years or fewer 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 a unique Alumni Association to complement the educational process. All Saint Paul College graduates are encouraged to join. Call 651.846.1469 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.

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

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 life-long service to students and graduates.

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

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. This information may be obtained from the Career and Placement Center or from the College Web site at www.saintpaul.edu/resources/careers. If you would like further information on the Career and Placement Center, please contact 651.846.1384, career.center@saintpaul.edu or visit Room 1250.

Customized Training & Continuing Education (CTCE)

The Customized Training and Continuing Education division at Saint Paul College stands ready to serve the educational and professional growth needs of organizations and individuals in the greater metro area. For more than 20 years, we have delivered customized training, workforce development, assessment and consulting to business, industry, government, non-profit organizations, and entrepreneurs, along with continuing education and training to individuals searching to boost performance and career opportunities.

Customized Training

Customized Training provides quality training programs that deliver at your location, online or on our campus. We can assist your business or organization to stay 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 works best for the client and their employees, for example:

- **Web-Based Training** features over 100 Courses.
- **Seminars** provide information to participants on important, timely topics.
- **Workshops** are designed to include intense activities to influence employee application of new behaviors, attitudes, or skills.
- **Courses** are aimed at increasing skills or specific knowledge relating to employment and are held over a period of time. Time is allowed for practice, lab work, or independent study.

Whatever the format, you can be assured of thorough, professional training that will effectively bring bottom-line results to your company.

Training Offered:

- Business & Workplace Skills
- Business Writing
- Coaching
- Communication Skills
- Customer Service
- Ethics
- Finance/Bookkeeping
- Health Care
- Leadership Training
- Lean-Flow Certification for Health Care
- Lean-Flow Training
- Quality Assurance
- Safety

- Software Training
- Supervisory & Management Training
- Workers Comp

Continuing Education

Continuing Education is perfect for the adult learner interested in non-credit courses to boost your career or for your own personal enrichment. Choose from online or classroom-based courses in areas of personal enrichment, professional development, workforce training, marketing and sales courses and also many self-study courses.

Courses Include:

- AutoCAD Training
- Business Planning
- Computer Applications
- Health Care Careers
- Leadership/Management
- Lean-Flow Methodologies
- Mariner's Academy
- Motorcycle Training
- NABCED Certifications
 - Solar PV Installer
 - Solar PV Technical Sales
- ServSafe® Certification

Any CTCE class can be offered at your work site or custom tailored to meet your employees' needs. Call 651.846.1800 or visit www.saintpaul.edu/CTCE 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 www.saintpaul.edu/apply.
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 the Intake 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. 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.
4. 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, sentence skills 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.

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 651.846.1555.

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, tech prep 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 conferred 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 Transfer 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 www.saintpaul.edu.

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 www.collegeboard.org 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, non-college 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.

Link to American Council of Education
http://www.acenet.edu/Content/NavigationMenu/ProgramsServices/MilitaryPrograms/Transcript_FAQs.htm

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—Service Members 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.

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 college-level 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. The faculty of this area can communicate with several different language groups. This program offers a variety of support services and specially tailored classes to meet the unique needs of ESOL students.

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.

Background Checks 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 information is located on the Web site. This schedule contains a listing of classes that are available each academic term and is available approximately eight weeks before the beginning of each term. The Course Schedule lists the courses, number of credits, class times, instructors' names, room numbers and prerequisites, whenever possible. Registration dates and guidelines are also listed on the College Web site.

Students are encouraged to work with a Academic Success Coordinator, a Transfer Specialist or Faculty advisor when planning their classes. Students who have questions, or who need help in making career decisions, should make an appointment with the Director of the Career and Placement Center.

Class sizes are limited. Full classes are posted on the Saint Paul College course schedule online. Some courses do offer a waitlist option.

Registration for classes takes place each semester and summer term. Information on how and when to register is provided to new students when they are accepted for

admission. Information is posted on the Web site for returning students. Not all courses listed in the College Catalog are offered every term.

Students who have a financial hold at any Minnesota State College or University may not be allowed to enroll in courses at Saint Paul College until the financial hold has been removed.

A Registration Schedule is published for each term and indicates assigned dates and times for registration. New students can register for classes following orientation sessions. Returning students are encouraged to consult with an advisor prior to registration.

Registration Process for New and Returning Students

1. Select courses, noting course ID numbers.
2. Login to your student account and register online.
3. Pay tuition and fees online or at the tuition office. A deferment to hold your classes can be received by having an ISIR for financial aid, a completed third party authorization, a Nelnet Payment Plan, a certified student loan, or a scholarship. Refer to the Saint Paul College Tuition Office web page for the full detail on your payment/deferment options.
4. Purchase books and supplies and attend classes. If purchasing books and supplies with financial aid you must complete a Financial Aid book charging request which can be found on the Saint Paul College Tuition Office webpage. Loans need to be fully certified to be used on a voucher. Refer to the Financial Aid book charging process link found on the Saint Paul College Tuition Office webpage for detailed information and important dates. If using a third party agency voucher, a completed third party authorization must be received by the tuition office. The cost of books can be found on the Saint Paul College Bookstore Web site. If possible, Pay for books with your own money or reserve them prior to the start of class either at the bookstore or online at www.saintpaulcollegebookstore.com. This will help to avoid the long lines at the Bookstore in the first week of the semester.

Adding, Dropping, or Withdrawing

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 withdraw deadline may be assigned a grade of “FW”. Refer to the current Course Schedule for details.

Students who do not plan to 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 may be assigned a grade of “FN”. 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 contact an Academic Success Coordinator to develop an academic plan and to have the hold released. To make an appointment with an Academic Success Coordinator you can call 651-846-1692 or go to the Administration Office, Room 1400.

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 be 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 paid their tuition by the posted due date will lose their place in each registered class.

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—	Refund
Fall & Spring Terms	
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 length)	
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 that is 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

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. Part-time 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 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

- Federal Work-Study
- State Work-Study

These programs employ students on campus. 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 Loan

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, first year students may borrow

up to \$5,500 per academic year and second year students, up to \$6,500. The student must complete online Entrance Loan Counseling and a Master Promissory Note and be registered for 6 credits.

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 Educational Loans, may bridge the gap between government programs and the cost of attendance. Eligibility is often based on your credit score.

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 www.ohe.state.mn.us
- Veteran Benefits (VA) www.vba.va.gov
- Minnesota Department of Veterans' Affairs www.mymilitary.education.org
- Minnesota Educational Assistance for War Orphans www.ohe.state.mn.us
- 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:
 - www.fastweb.com
 - www.finaid.org
 - www.going2college.org
 - www.fastaid.com
 - www.college-scholarships.com

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 www.fafsa.gov. 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. If other post-secondary schools have been attended prior to attending Saint Paul College, request an *official* academic transcript be sent to the Student Records Office for credit evaluation. This is a requirement for Minnesota State Grant eligibility.
4. Once the Financial Aid Office receives the ISIR electronically from the Student Federal Aid, the student's application will be reviewed for accuracy and completeness. It is important that any requests for additional information 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.
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 their 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 www.saintpaul.edu 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 a total withdraw from Saint Paul College for any reason after the drop/add deadline, you will 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 institution 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.

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 www.saintpaul.edu/FinancialAid.

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 Timeframe

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 timeframe. 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 time frame 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

- 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 on the Appeals Form available online at www.saintpaul.edu/FinancialAid or in the Financial Aid Office. 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, page 28.

Academic Amnesty/Forgiveness

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 be 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 timeframe.

Education Tax Credits

The Taxpayer Relief Act (TRA) of 1997 provides for two tax credits that students may be eligible to claim: the Hope Scholarship Tax Credit and the Life-Long Learning Tax Credit. The Hope Scholarship Tax Credit is a tax credit and not a scholarship. If you do not pay federal income tax, this credit will not apply to you. The credit applies to students enrolled at least half-time for at least one term during the calendar year. The credit applies only to citizens or permanent residents of the United States. The credit applies 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 the credit; however, you must report the grant or other payment as income.

Many details surround the Hope Scholarship Tax Credit and the Life-Long Learning Tax Credit. Saint Paul College does not provide Income Tax Counseling. We recommend that you consult with a tax professional to see if you qualify. Information on the Hope Scholarship Tax Credit is available in the Tuition Office. Tax Credit brochures are available in the Financial Aid Office.

Student Services

Office of Enrollment Services

Enrollment Services provides prospective and current students with up-to-date information on program options and guide sheets 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.

Academic Advising

Program Faculty Advisors assist you with program planning and course selection. They provide detailed information about programs, employment opportunities and transfer options. Students are strongly encouraged to meet with their Faculty Advisor prior to registering each term.

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.

Academic Success Coordinators

Academic Success Coordinators provide early academic intervention for students exhibiting at-risk behaviors. The Academic Success Coordinators work with students who

are in College Readiness Program (CRP) courses to plan their academic careers. The Academic Success Coordinators monitor Satisfactory Academic Progress. Students on academic probation are required to work with an Academic Success Coordinator to develop an academic success plan. Students seeking registration guidance, assistance with time management or who have concerns about being a successful college student are encouraged to meet with an Academic Success Coordinator. Appointments can be made by call 651.846.1357 or e-mailing academicsuccess@saintpaul.edu.

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 Educational Benefits

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 www.gibill.va.gov. 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 Veteran's Center. The Veteran 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 posted on the CastNet system monitors around the campus hallways.

Disability Services

Saint Paul College is committed to providing equal access to educational opportunities for all students, including those with disabilities. The Coordinator of Disabilities 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 Coordinator of Disability Services, Caidin Riley, assists in the transition of students with disabilities to Saint Paul College programs. The Coordinator of Disability Services is responsible for identification, referral, advocacy, accommodation and inter-agency coordination. The Coordinator of Disability Services, Caidin Riley, is located in Enrollment Services, in Room 1302, and can be reached at 651.846.1547.

Reasonable Accommodation Policy

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 Coordinator 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 Coordinator 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 as 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, quiet room, audio tests
- 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, Coordinator 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-to-one 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 offered each semester. 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 Internet-based career information system that can assist in career planning. For more information on ISEEK, visit the Web site at www.iseek.org.

Additional Services

Child Care

Child care services are offered to students enrolled at Saint Paul College, which sponsors on-campus child care in partnership with the Children's Home Society & Family Services (CHSFS). The Center has separate areas that provide appropriate care to three age groups: infants, toddlers and preschoolers.

Interested students may enroll their children on a schedule that accommodates their college class schedule. Student parents are encouraged to visit with 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 6:30am to 4:30pm, except College holidays.

City View Dining and Catering

The City View Cafeteria is open Fall and Spring Semesters from 7:00am to 7:00pm Monday through Thursday, and 7:00am to 2:00pm on Fridays.

Summer Semester 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 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

City View Commons is available to students to dine, study, or just meet friends. Lounge areas are also located in the College's skyway and on the fourth floor.

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: You should take an active role in your own wellness and health. You should 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 Learning Commons (Room 1260) and the operation hours for each semester are posted on the CastNet system monitors around the campus hallways. 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.

Phi Theta Kappa (PTK)

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.

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.

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. Currently the following student clubs are recognized at Saint Paul College:

- All Trades Club
- Association for Computing Machinery (ACM)
- Environmental Action Society
- Muslim Student Association
- PRISM Campus Alliance
- Respiratory Care Club
- Scitamard Society (Dramatics)
- Student Science Association
- Interest Groups

For students that would like official recognition and involvement support from Student Life but do not meet the criteria required to be a recognized Student Association, you 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. Previous Interest Groups have been:

- ASL Conversation Group
- Mindstorm – Philosophy Group
- Friends of Bill W. – Support Group
- Geology Group

OrgSync

OrgSync is a web-based platform that allows you to connect with several organizations, departments, and students on campus! You can join a Student Association's OrgSync portal and learn all about their activities, communicate with members or sign up to attend campus events. OrgSync has discussion forums, photo sharing, messaging, calendars, and an e-portfolio tool that showcases your work and involvement! OrgSync makes

your college experience a little easier by putting all of these fancy features in one easy-to-access place! For more information: www.saintpaul.edu/orgsync.

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 www.saintpaul.edu/tutoring for available days and hours for specific subjects.

Learning Commons

Mission

The Saint Paul College Learning Commons mission is to support and enhance the educational mission of the College. 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.

Services

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.

Additional Learning Common Services

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.

Learning Commons Location

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.

Hours and Additional Services

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 Rooms 3225 and 3115. 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 www.saintpaul.edu.

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 www.saintpaulcollegebookstore.com, 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: www.saintpaulcollegebookstore.com. 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 exempted 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 Data Protection Act, 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 www.saintpaul.edu. 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

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
B	3
C	2
D	1
F	0
I	0
FN = Failure for Non Attendance	0
FW = Failure due to Unofficial Withdraw	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	B	12
PSYC 1710	4	A	16
BTEC 1410	3	F	0
BTEC 1418	3	C	6
BTEC 1435	<u>3</u>	P	<u>0</u>
Total:	17		34
GPA = 34 / 17 = 2.0			

Grade Report

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

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. 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 a high school Grade Point Average of 3.75 or higher The College offer honors sections of carefully designed courses from a variety of disciplines and program areas each academic year. Honors sections will be designated on students' college transcripts (i.e. "PHIL 1720 01 Ethics – Honors"). Eligible students who successfully complete three honors courses and an honors special topics seminar 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 ESL 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, 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 non-refundable 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 www.saintpaul.edu/GraduationApplication 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.

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 Degree 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
Minnesota 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) 3 cr	9
Goal 2: Critical Thinking Fulfilled when 10 goal areas (40 credits) are completed	
Goal 3: Natural Sciences Minimum of two courses from two different disciplines, one of which must be a lab course.	7
Goal 4: Mathematical/Logical Reasoning Minimum of one course. Courses must be numbered between 1700-1799 or 2700-2799	3
Goal 5: History and the Social and Behavioral Sciences Minimum of three courses from three different disciplines.	9
Goal 6: Humanities and Fine Arts Minimum of three courses from three different disciplines.	9
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.

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 prepares 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.

<u>AS Degree General Education Requirements</u>	<u>Cr</u>
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 or Goal 4 Goal 3: Natural Sciences Goal 4: Mathematical/Logical Reasoning	3
Goal 5: History, Social Sciences and Behavioral Sciences	3
Goal 6: Humanities and Fine Arts	3
Goals 1–10 of the Minnesota Transfer Curriculum Select a minimum of 14 additional credits Students must select courses from at least six (6) Goal Areas of the Minnesota Transfer Curriculum.	14
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 Administration
Business Information Technology
Child Development Careers
Clinical Sports Massage
Computer Network Engineering
Computer Programming
Cosmetology
Culinary Arts
Electrical Technology
Entrepreneurship
Esthetician
Global Trade Specialist
Health Information Technology
Healthcare Informatics
Hospitality Management
Human Resources
Manufacturing Technology
Marketing
Medical Office Professional
Medical Laboratory Technician
Music Business
Personal Trainer
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 Degree 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 or 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 General 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.

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 set up and 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 Trade Division, 651.846.1320.

Saint Paul Joint Apprenticeship Committees

(Includes both day and evening programs)

- Pipefitters
- Plumbers

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.

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

- demonstrate understanding of scientific theories.
- 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.
- communicate their experimental findings, analyses, and interpretations both orally and in writing.
- 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.

- illustrate historical and contemporary applications of mathematical/logical systems.
- clearly express mathematical/logical ideas in writing.
- explain what constitutes a valid mathematical/logical argument (proof).
- 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.

- employ the methods and data that historians and social and behavioral scientists use to investigate the human condition.
- examine social institutions and processes across a range of historical periods and cultures.
- use and critique alternative explanatory systems or theories.
- develop and communicate alternative explanations or solutions for contemporary social issues.

6. 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.

- demonstrate awareness of the scope and variety of works in the arts and humanities.
- understand those works as expressions of individual and human values within an historical and social context.
- respond critically to works in the arts and humanities.
- engage in the creative process or interpretive performance.
- 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.

- understand the development of and the changing meanings of group identities in the United States, history and culture.

- demonstrate an awareness of the individual and institutional dynamics of unequal power relations between groups in contemporary society.
- analyze their own attitudes, behaviors, concepts and beliefs regarding diversity, racism, and bigotry.
- 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.
- 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.

- describe and analyze political, economic, and cultural elements which influence relations of states and societies in their historical and contemporary dimensions.
- demonstrate knowledge of cultural, social, religious and linguistic differences.
- analyze specific international problems, illustrating the cultural, economic, and political differences that affect their solution.
- 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.

- examine, articulate, and apply their own ethical views.
- understand and apply core concepts (e.g. politics, rights and obligations, justice, liberty) to specific issues.
- analyze and reflect on the ethical dimensions of legal, social, and scientific issues.
- recognize the diversity of political motivations and interests of others.
- 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 inter-relatedness of human society and the natural environment. Knowledge of both bio-physical principles and socio-cultural systems is the foundation for integrative and critical thinking about environmental issues.

- explain the basic structure and function of various natural ecosystems and of human adaptive strategies within those systems.
- discern patterns and interrelationships of bio-physical and socio-cultural systems.
- describe the basic institutional arrangements (social, legal, political, economic, religious) that are evolving to deal with environmental and natural resource challenges.
- evaluate critically environmental and natural resource issues in light of understandings about interrelationships, ecosystems, and institutions.
- propose and assess alternative solutions to environmental problems.
- 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 the College Transfer Specialist located 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
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

Goal 2: Critical Thinking			Credits
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	2700	Biochemistry (p)	4
BIOC	2790	Biochemistry Internship/Research Project	1-4
BIOL	1720 ¹⁰	Environmental Science: Current Issues	3
BIOL	1725 ^{10*}	Environmental Science	4
BIOL	1730*	Human Body Systems	3
BIOL	1735*	Exploring Biology	4
BIOL	1740*	General Biology 1: The Living Cell	5
BIOL	1745 ^{10*}	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	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	2711*	Organic Chemistry 1 (p)	4
CHEM	2712*	Organic Chemistry 2 (p)	4
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	1710 ^{10*}	Earth Science	4
NSCI	1721 ^{10*}	Introduction to Geology	4
NSCI	1730 ^{10*}	Introduction to Oceanography	3
NSCI	1740 ^{10*}	Introduction to Meteorology	3
NSCI	1750 ^{10*}	Natural Disasters	3
NSCI	1770 ^{10*}	Introduction to Energy & the Environment	3
NSCI	1780 ⁹	Contemporary Issues in Science	3

*Course contains lab

(p) = Indicates prerequisite required for course

NSCI	1782 ^{10*}	Minnesota Geology	3
NSCI	1790 ^{10*}	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	1760 ¹⁰	Descriptive Astronomy (no lab)	3
PHYS	2700*	General Physics 1 (w/ Calculus) (p)	5
PHYS	2710*	General Physics 2 (w/ Calculus) (p)	5
PHYS	2760 ^{10*}	Introductory Astronomy (with lab)	3

Goal 4: Mathematical/Logical Reasoning	Credits
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MATH	1710	Liberal Arts Mathematics (p)	3
MATH	1730	College Algebra (p)	3
MATH	1740	Introduction to Statistics (p)	4
MATH	1750	Trigonometry (p)	3
MATH	1760	Pre-Calculus (p)	4
MATH	2749	Calculus 1 (p)	4
MATH	2750	Calculus 2 (p)	4
MATH	2753	Calculus 3 (p)	4
MATH	2760	Ordinary Differential Equations (p)	4
PHIL	1710	Logic	3

Goal 5: History, Social Sciences, and Behavioral Sciences	Credits
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ANTH	1710 ⁷	Introduction to Cultural Anthropology	4
ANTH	1720 ¹⁰	Introduction to Physical Anthropology	4
ANTH	1730 ⁸	Gender and Culture in Global Perspective	3
ANTH	1790	Special Topics in Anthropology	3
ECON	1710	Introduction to the American Economy	3
ECON	1720 ⁸	Macroeconomics	3
ECON	1730 ⁸	Microeconomics	3
GEOG	1700 ¹⁰	Physical Geography	3
GEOG	1720 ⁸	Human/Cultural Geography	3
GEOG	1730 ⁸	Global Economic Geography	3
GEOG	1740 ⁸	World Geography	3
GEOG	1750 ¹⁰	Minnesota Geography	3
HIST	1730 ⁸	Contemporary World History	3
HIST	1745 ⁷	U.S. History to 1865	4
HIST	1746 ⁷	U.S. History Since 1865	4
HIST	1750 ¹⁰	Minnesota History	3
HIST	1760 ⁸	History of World Civilizations to 1500	3
HIST	1761 ⁸	History of World Civilizations since 1500	3
HIST	1770 ⁹	History of Women in the United States	3
HIST	2740 ⁹	Immigration and Ethnic History of the United States	3
HIST	2780 ⁷	Special Topics in History	1-3
HIST	2790 ⁷	Historical Methods	2
POLS	1720 ⁹	Introduction to American Government	3
POLS	1740 ⁸	Introduction to World Politics	3
POLS	1750 ⁹	Introduction to Political Science	3
POLS	1760 ⁹	Introduction to Political Philosophy	3
PSYC	1710	General Psychology	4
PSYC	1720 ⁹	Psychology Throughout the Lifespan	3

PSYC	1730	Introduction to Child Psychology (p)	3
PSYC	1740 ⁷	Abnormal Psychology (p)	4
PSYC	1750 ⁷	Introduction to Health Psychology	3
PSYC	1760 ⁷	Social Psychology	4
SOCI	1710 ⁷	Introduction to Sociology	4
SOCI	1720 ⁸	Social Problems	3
SOCI	1730 ⁷	Sociology of Families and Relationship	3
SOCI	1740 ⁸	Sociology of Work	3
SOCI	1760	Mass Media and Society	4
SOCI	1765 ⁷	Sociology of Crime and Deviance	3
SOCI	1766 ⁹	Juvenile Delinquency	3
SOCI	1772 ⁹	Introduction to Criminal Justice	3
SOCI	1780 ⁷	Social Psychology	4
SOCI	1790	Special Topics in Sociology	1-3
SOCI	2760 ⁷	Sociology through Film and Music	3
WGST	1785 ⁹	Foundations in Women's Studies	3

Goal 6: Humanities and Fine Arts	Credits
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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	1724 ⁷	The Design of Everyday Life	3
ARTS	1726 ⁷	Art in the Cities	3
ARTS	1730	Drawing 1	3
ARTS	1731	Drawing 2 (p)	3
ARTS	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	3
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

*Course contains lab

(p) = Indicates prerequisite required for course

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 1710 ⁸	The Art of Being Human: An Introduction to Humanities	4
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
MUSC 1720	Fundamentals of Music	3
MUSC 1740 ⁸	Music Appreciation	3
MUSC 1745 ⁷	History of Rock and Roll	3
MUSC 1750 ⁷	Jazz History	3
MUSC 1760 ⁷	American Music	3
MUSC 1765 ⁷	Music of Latin America and the Caribbean	3
MUSC 1770 ⁸	Music in World Cultures	3
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
THTR 1710	Introduction to Theatre	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 2725	Acting 2 (p)	3

Goal 7: Human Diversity**Credits**

ANTH 1710 ⁵	Introduction to Cultural Anthropology	4
ARTS 1722 ⁶	American Animation	3
ARTS 1724 ⁶	The Design of Everyday Life	3
ARTS 1726 ⁶	Art in the Cities	3
ASLS 1435	Deaf Studies/Culture	3
ENGL 1780 ⁶	Recently-Arrived Contemporary Immigrant Literature	3
ENGL 1790 ⁶	Contemporary Writers of Color	3
ENGL 2721 ⁶	Survey of American Literature 1 (p)	3
ENGL 2722 ⁶	Survey of American Literature 2 (p)	3
ENGL 2740 ⁶	Native American Literature (p)	3
ENGL 2750 ⁶	African American Literature (p)	3
HIST 1745 ⁵	U.S. History to 1865	4

HIST 1746 ⁵	U.S. History Since 1865	4
HIST 2780 ⁵	Special Topics in History	1-3
HIST 2790 ⁵	Historical Methods	2
HUMA 1780 ⁶	American Film	3
MUSC 1745 ⁶	History of Rock and Roll	3
MUSC 1750 ⁶	Jazz History	3
MUSC 1760 ⁶	American Music	3
MUSC 1765 ⁶	Music of Latin America and the Caribbean	3
PSYC 1740 ⁵	Abnormal Psychology (p)	4
PSYC 1750 ⁵	Introduction to Health Psychology	3
PSYC 1760 ⁵	Social Psychology	4
SOCI 1710 ⁵	Introduction to Sociology	4
SOCI 1730 ⁵	Sociology of Families and Relationships	3
SOCI 1765 ⁵	Sociology of Crime and Deviance	3
SOCI 1780 ⁵	Social Psychology	4
SOCI 2760 ⁵	Sociology through Film and Music	3
SPCH 1720 ¹	Interpersonal Communication	3
SPCH 1770 ¹	Family Communication	3
SPCH 1780 ¹	Gender Communication	3

Goal 8: Global Perspective**Credits**

ANTH 1730 ⁵	Gender and Culture in Global Perspective	3
ARTS 1720 ⁶	Art Appreciation	3
ARTS 1760 ⁶	World Art	3
ASLS 1413	American Sign Language 3 (p)	3
ASLS 1414	American Sign Language 4 (p)	3
CHIN 1710	Beginning Chinese 1	5
CHIN 1720	Beginning Chinese 2 (p)	5
ECON 1720 ⁵	Macroeconomics	3
ECON 1730 ⁵	Microeconomics	3
GEOG 1720 ⁵	Human/Cultural Geography	4
GEOG 1730 ⁵	Global Economic Geography	3
GEOG 1740 ⁵	World Geography	3
HIST 1730 ⁵	Contemporary World History	3
HIST 1760 ⁵	History of World Civilizations to 1500	3
HIST 1761 ⁵	History of World Civilizations since 1500	3
HUMA 1710 ⁶	The Art of Being Human	4
HUMA 1720 ⁶	The Ancient and Medieval World	4
HUMA 1730 ⁶	The Modern World	4
HUMA 1750 ⁶	Culture & Civilization: Spanish-Speaking Cultures	3
HUMA 1790 ⁶	International Film	3
MUSC 1740 ⁶	Music Appreciation	3
MUSC 1770 ⁶	Music in World Cultures	3
PHIL 1740 ⁶	World Mythology	3
PHIL 1742 ⁶	Greek and Roman Mythology	3
PHIL 1750 ⁶	Eastern Philosophy	3
PHIL 1760 ⁶	World Religions	3
POLS 1740 ⁵	Introduction to International Relations	3
SOCI 1720 ⁵	Social Problems	3

*Course contains lab

(p) = Indicates prerequisite required for course

SOCI	1740 ⁵	Sociology of Work	3
SPAN	1710	Beginning Spanish 1	5
SPAN	1720	Beginning Spanish 2 (p)	5
SPAN	1730	Intermediate Spanish 1 (p)	5
SPAN	1740	Intermediate Spanish 2 (p)	5
SPAN	1790	Spanish for the Workplace	3
SPCH	1700 ¹	Introduction to Speech Communications	3
SPCH	1710 ¹	Fundamentals of Public Speaking	3
SPCH	1730 ¹	Intercultural Communication	3

Goal 9: Ethic and Civic Responsibility			Credits
BIOC	1761 ³	Chemical & Biological Ethics and Regulations (p)	4
BIOL	1785 ³	Biology of Men and Women	3
HIST	1770 ⁵	History of Women in the United States	3
HIST	2740 ⁵	Immigration and Ethnic History of the United States	3
NSCI	1780 ³	Contemporary Issues in Science	3
PHIL	1720 ⁶	Ethics	3
PHIL	1722 ⁶	Health Care Ethics	3
POLS	1720 ⁵	Introduction to American Government	3
POLS	1750 ⁵	Introduction to Politics	3
POLS	1760 ⁵	Introduction to Political Philosophy	3
PSYC	1720 ⁵	Psychology Throughout the Lifespan	3
SOCI	1766 ⁵	Juvenile Delinquency	3
SOCI	1772 ⁵	Introduction to Criminal Justice	3
SPCH	1750 ¹	Small Group Communication	3
WGST	1785 ⁵	Foundations in Women's Studies	3

Goal 10: People and the Environment			Credits
ANTH	1720 ⁵	Introduction to Physical Anthropology	4
BIOL	1720 ^{3*}	Environmental Science: Current Issues	3
BIOL	1725 ^{3*}	Environmental Science	4
BIOL	1745 ^{3*}	General Biology 2: The Living World (p)	5
GEOG	1700 ⁵	Physical Geography	4
GEOG	1750 ⁵	Minnesota Geography	3
HIST	1750 ⁵	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	2760 ^{3*}	Introductory Astronomy (with lab)	3

*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.

The **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. 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.

The **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. 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 (www.saintpaul.edu) or the Minnesota Transfer Web site (www.mntransfer.org) for more information.

Obtain the following materials and information from the four-year institution: College catalog Transfer brochure, if available Information about admissions criteria and materials required for admission (e.g., transcripts, test scores, portfolio, etc). Note that some majors have limited enrollments and/or special admission requirements such as higher grade point averages. Information on financial aid (how to apply and by what date).

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, transcribed 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 2013-2014

(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/AS	BA Psychology	Argosy University
AA/MnTC	- Various Majors	Augsburg College
AA	BS Education (DLiTE program)	Bemidji State University
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
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 2013-2014

(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".

Accounting AAS	BS	Various Business Degrees	Cardinal Stritch University-Woodbury
	BBA	Accounting	Concordia University
	BBA	Finance	Concordia University
	BAS	Organizational Administration	Metropolitan State University
	BS	Accounting Management	Saint Mary's University-Minneapolis University of Wisconsin-Stout
Auto Body Repair AAS	BAS	Technology Management	Bemidji State University
	BS	Operations Management	Minnesota State University-Moorhead
	BS	Management	University of Wisconsin-Stout
Auto Body Repair Diploma	BS	Operations Management	Minnesota State University-Moorhead
Automotive Service Technician AAS	BS	Operations Management	Minnesota State University-Moorhead
	BS	Management	University of Wisconsin-Stout
Automotive Service Technician Diploma	BS	Operations Management	Minnesota State University Moorhead
Biomedical Engineering Technology AS	BA	Individualized Studies	Metropolitan State University
	BS	Management	University of Wisconsin-Stout
Business Administration AAS	BS	Various Business Degrees	Cardinal Stritch University-Woodbury
	BA	Organizational Management and Leadership	Concordia University
	BAS	Organizational Administration	Metropolitan State University
	BS	Business Management	Saint Mary's University-Minneapolis University of Wisconsin-Stout
Business Information Technology AAS	BS	Various Majors	Cardinal Stritch University-Woodbury
	BA	Information Technology in Management	Concordia University
	BAS	Organizational Administration	Metropolitan State University
	BS	Management	University of Wisconsin-Stout

Business Management AS	BS BS BS	Various Majors Business Administration Management	Cardinal Stritch University-Woodbury Metropolitan State University University of Wisconsin-Stout
Cabinetmaking Diploma	BS	Operations Management	Minnesota State University-Moorhead
Carpentry Diploma	BS	Operations Management	Minnesota State University-Moorhead
Chemical Technology AS	BA BS	Individualized Studies Management	Metropolitan State University University of Wisconsin-Stout
Chemical Technology Certificate	BA	Individualized Studies	Metropolitan State University
Child Development AS	BS BS BS	Early Childhood Education Human Development & Family Studies Management	University of Wisconsin-Stout University of Wisconsin-Stout University of Wisconsin-Stout
Child Development AAS	BS BS BS	Early Childhood Education Human Development & Family Studies Management	University of Wisconsin-Stout University of Wisconsin-Stout University of Wisconsin-Stout
Child Development ASL AS	BS	Management	University of Wisconsin-Stout
Clinical Sports Massage AAS	BA BS	Kinesiology Management	Concordia University University of Wisconsin-Stout
Computer Graphics and Visualization AS	BA BS BS	Technical Communication and Professional Writing Operations Management Management	Metropolitan State University Minnesota State University-Moorhead University of Wisconsin-Stout
Computer Network Engineering AAS	BS BAS BS BS	Various Majors Organizational Administration Operations Management Information and Communication Technologies Management	Cardinal Stritch University-Woodbury Metropolitan State University Minnesota State University-Moorhead University of Wisconsin-Stout University of Wisconsin-Stout
Computer Programming AAS	BS BAS BS BS BS	Various Majors Organizational Administration Operations Management Information and Communications Technologies Management	Cardinal Stritch University-Woodbury Metropolitan State University Minnesota State University-Moorhead University of Wisconsin-Stout University of Wisconsin-Stout
Computer Science AS	BS BS	Various Majors Management	Cardinal Stritch University University of Wisconsin-Stout
Construction Supervisor AAS	BAS BS	Industrial Management Management	Metropolitan State University University of Wisconsin-Stout
Cosmetology AAS	BS	Management	University of Wisconsin-Stout
Culinary Arts AAS	BS BS	Culinology Hotel, Restaurant, and Tourism Management	Southwest Minnesota State University University of Wisconsin-Stout
Energy Process Technology AAS	BAS BS BS	Industrial Management Operations Management Management	Metropolitan State University Minnesota State University-Moorhead University of Wisconsin-Stout
Entrepreneurship AAS	BS BAS BS	Various Majors Organizational Administration Management	Cardinal Stritch University Metropolitan State University University of Wisconsin-Stout
Global Trade Specialist AAS	BS BAS BAS BS	Various Majors International Commerce Organizational Administration Management	Cardinal Stritch University-Woodbury Metropolitan State University Metropolitan State University University of Wisconsin-Stout
Health Information Technology AAS	BS BS BAS BS	Various Majors Health Information Management Organizational Administration Management	Cardinal Stritch University-Woodbury College of St. Scholastica Metropolitan State University University of Wisconsin-Stout
Hospitality Management AAS	BS BS	Hotel, Restaurant and Tourism Management Management	University of Wisconsin-Stout University of Wisconsin-Stout
Human Resources AAS	BS BAS BS	Various Majors Organizational Administration Management	Cardinal Stritch University Metropolitan State University University of Wisconsin-Stout
Land Surveying Technology AS	BS	Management	University of Wisconsin-Stout
Management Information Systems AS	BS BS	Various Majors Management	Cardinal Stritch University University of Wisconsin-Stout
Manufacturing Technology AAS	BAS BS BMM BS	Industrial Management Operations Management Manufacturing Management Management	Metropolitan State University Minnesota State University-Moorhead University of Minnesota-Crookston University of Wisconsin-Stout
Marketing AAS	BS BS	Marketing Management	Saint Mary's University-Twin Cities Campus University of Wisconsin-Stout
Massage Therapy Certificate	BA	Kinesiology	Concordia University
Medical Laboratory Technician AAS	BS BS	Clinical Laboratory Science Management	Winona State University University of Wisconsin-Stout

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 “Goal5 – 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 36-39 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 and
Computer Graphics &
Visualization Programs 47

Health Science &
Service Programs 71

Science, Technology,
Engineering, Math &
Liberal Arts 97

Transportation,
Construction and
Building Trades, and
Technical Programs 115

Business and Computer Graphics & Visualization Programs

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.

Accounting

Accounting AAS Degree	48
Accounting Technician Diploma	48

Business Administration/ Business Technology

Business Administration AAS Degree	49
Business Certificate	50
Business Information Technology AAS Degree	51
Business Information Technology Certificate	52
Business Applications Specialist Certificate	52

Business Management

Business Management AS Degree	53
Leadership Certificate	54
Nonprofit Certificate	55
Project Management Certificate	56
Supervision Certificate	56

Entrepreneurship

Entrepreneurship AAS Degree	56
Entrepreneurship Certificate	57
Music Business AAS Degree	57

Finance

Finance Certificate	58
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Global Trade

Global Trade Specialist AAS Degree	59
Global Trade Professional Certificate	60

Hospitality Management

Hospitality Management AAS Degree	60
Restaurant Management Certificate	61
Event and Meeting Management Certificate	61

Human Resource Management

Human Resources AAS Degree	62
Human Resources Specialist Certificate	63
Human Resources Professional Certificate	63

Marketing

Marketing AAS Degree	64
Social Media Marketing Certificate	64

Supply Chain Logistics

Supply Chain Logistics AAS Degree	65
Supply Chain Logistics Advanced Technical Certificate	66

Computer Graphics & Visualization

Computer Graphics and Visualization Careers

Computer Graphics and Visualization AS Degree	66
Visualization Technology AAS Degree	67
Visualization Technology Certificate	67
Computer Animation Certificate	68
Web Design Certificate	68
Photography Entrepreneurship AAS Degree	68
Digital Photography Certificate	69

For additional computer programs, see Computer Science, pages 102-106.

Accounting

Accounting AAS Degree 64 Credits
 Accounting Technician Diploma. 39 Credits

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.

Students must have a high school diploma or an equivalency certificate. 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, junior accountant or comptroller. The financial accounting technician positions are found in the areas of public accounting, private accounting, nonprofit accounting, auditing, taxation, cost accounting and managerial positions.



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Accounting AAS Degree

ACSBP Accredited

Program Outcomes

1. Graduates will possess the knowledge and skills for immediate employment in related business support areas.
2. 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 work and personal roles.
5. Graduates will serve their employers and clients in all phases of accounting, including cost accounting, taxes, estates and trusts and nonprofit accounting.
6. Graduates will have critical thinking skills.

Program Requirements

Required Business Core		Cr
Professional Component		
ACCT 1411	Principles of Accounting 1	4
BTEC 1421	Business Information Applications 1 OR	
CSCI 2410	Management Information Systems	3
BTEC 1445	Business Communications	3
BUSN 1410	Introduction to Business	3
BUSN 2470	Legal Environment of Business	3
Required Business Core		16
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	4
ACCT 2540	Financial Modeling for Spreadsheets	4
Subtotal		28
General Education/MnTC Requirements		Cr
Refer to the Minnesota Transfer Curriculum Course 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		3
	ECON 1720 Macroeconomics (required) – 3 cr OR	
	ECON 1730 Microeconomics (required) – 3 cr	
Goal 6: Humanities and Fine Arts		3
General Education Requirements		16
Total Program Credits		60

Accounting Technician Diploma

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.

Program Outcomes

1. Graduates will possess the knowledge and skills for immediate employment in related business support areas.
2. 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 serve their employers and clients in all phases of accounting, including cost accounting, taxes, estates and trusts and nonprofit accounting.

Program Requirements

Course		Cr
ACCT 1411	Principles of Accounting 1	4
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 2420	Managerial Accounting	4
ACCT 2540	Financial Modeling for Spreadsheets	4
BTEC 1421	Business Information Applications 1	3
BUSN 1480	Career Resources	1
	Choose a SPCH course, 1000 level or higher, or ENGL 1711 or higher	3
	Subtotal	35
	Business Elective	4
	Total Program Credits	39

Business Administration/ Business Technology

Business Administration AAS Degree	60 Credits
Business Certificate	16 Credits
Business Information Technology AAS Degree . . .	60 Credits
Business Information Technology Certificate	30 Credits
Business Applications Specialist Certificate	25 Credits

Business Administration 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. Business Administration is recommended for experienced staff, those wishing to increase their potential for promotion, as well as entry-level employees. Graduates will have expert skills and in-depth software knowledge.

Career Opportunities

The opportunities for employment in the business administration area are unlimited depending on the individual's strengths and interests. Employment for managers is expected to grow at an average pace. 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.
5. Graduates will have critical thinking skills.



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Business Administration AAS Degree

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Program Requirements

Program Prerequisites

BTEC 1400	Keyboarding (or keyboarding skills) (2cr)
BTEC 1418	Computer Fundamentals (or knowledge of computers) (3cr)

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
Required Business Core		16

Course Cr

BTEC 1423	Business Information Applications 2	4
BTEC 1530	Communication Technology	4
BTEC 2410	Business Procedures	4
BTEC 2550	Emerging Business Technologies	4
BUSN 1440	Marketing Principles	3
BUSN 2450	Management Fundamentals	3
Choose 5 credits from the following electives:		5
ACCT 1412	Principles of Accounting 2	4
BTEC 1410	Advanced Keyboarding Applications	3
BTEC 2506	Business Information Applications 3	4
BUSN 1482	Business Career Resources	2
Subtotal		27

General Education/MnTC Requirements Cr

Refer to the Minnesota Transfer Curriculum Course 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	4
Goal 3: Natural Sciences	
BIOL 1725 Environmental Science – 4 cr OR	
Goal 4: Mathematical/Logical Reasoning	
MATH 1740 Introduction to Statistics – 4 cr	
Goal 5: History, Social Science, and Behavioral Sciences	3
ECON 1720 Macroeconomics (required) – 3 cr OR	
ECON 1730 Microeconomics (required) – 3 cr	
Goal 6: Humanities and Fine Arts	3
General Education Requirements	17

Total Program Credits 60

Business Certificate

The Business Certificate consists of the business core classes that are required for all business degree programs.

Program Outcomes

1. 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 Requirements

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



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Business Information Technology

AAS Degree

ACSBP Accredited

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 the 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 Requirements

Program Prerequisites

BTEC 1400	Keyboarding (or keyboarding skills) (2cr)
BTEC 1418	Computer Fundamentals (or knowledge of computers) (3 cr)

Required Business Core

Professional Component		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
Required Business Core		16

Course

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 2550	Emerging Business Technologies	4
Choose 4 credits from the following electives:		
BTEC 1401	Skillbuilding for Keyboarding	2
BUSN 1440	Marketing Principles	3
BUSN 1482	Business Career Resources	2
BUSN 2450	Management Fundamentals	3
Subtotal		27

General Education/MnTC Requirements

General Education/MnTC Requirements		Cr
Refer to the Minnesota Transfer Curriculum Course 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		4
Goal 3: Natural Sciences		
	BIOL 1725 Environmental Science – 4 cr OR	
Goal 4: Mathematical/Logical Reasoning		
	MATH 1740 Introduction to Statistics – 4 cr	
Goal 5: History, Social Science, and Behavioral Sciences		3
	ECON 1720 Macroeconomics (required) – 3 cr OR	
	ECON 1730 Microeconomics (required) – 3 cr	
Goal 6: Humanities and Fine Arts		3
General Education Requirements		17

Total Program Credits

60



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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. 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 Requirements

Program Prerequisites

BTEC 1400	Keyboarding (or Keyboarding Skills) (2cr)
BTEC 1418	Computer Fundamentals (or knowledge of computers) (3cr)

Required Business Core

Professional Component

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

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:		4

BTEC 2506	Business Information Applications 3	4
BTEC 2550	Emerging Business Technologies	4
BUSN 1482	Business Career Resources	2
DGIM 1443	Developing Web Sites with Dreamweaver	2
DGIM 1448	Creating Web Animation with Flash	2

Subtotal **21**

General Education Requirements **3**

(SPCH 1720 Interpersonal Communications is recommended)

Total Program Credits **30**

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. Business personnel work with communication technology such as instant messaging, voice mail, cell phones, voice recognition, and various multimedia features.

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 Specialist, 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.

Program Requirements

Program Prerequisites

BTEC 1400	Keyboarding (or Keyboarding Skills) (2cr)
BTEC 1418	Computer Fundamentals (or knowledge of computers) (3cr)

Required Business Core	Cr
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Professional Component

BTEC 1421	Business Information Applications 1	3
BTEC 1445	Business Communication	3
	Required Business Core	6

Course		Cr
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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	16
	General Education Requirements (SPCH 1720 Interpersonal Communications are recommended)	3

Total Program Credits	25
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Business Management

Business Management AS Degree	60 Credits
Leadership Certificate	27 Credits
Nonprofit Certificate	27 Credits
Project Management Certificate	16 Credits
Supervision Certificate	17 Credits

Business Management AS Degree

ACSBP Accredited

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. They may also continue their education in business towards a bachelor's degree at four-year institutions.

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 relations 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 skills, knowledge and abilities in core business functions including accounting, marketing and management.
2. 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.



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Program Requirements

Program Prerequisites

Professional Component

ACCT 1411	Principles of Accounting 1	4
BTEC 1445	Business Communications	3
BTEC 1421	Business Information Applications 1 OR	
CSCI 2410	Management Information Systems	3
BUSN 1410	Introduction to Business	3
BUSN 2470	Legal Environment of Business	3
	Required Business Core	16

Course

ACCT 1412	Principles of Accounting 2	4
BUSN 1440	Marketing Principles	3
BUSN 1482	Business Career Resources	2
BUSN 2450	Management Fundamentals	3
BUSNXXXX	Business Management Electives	2
	Subtotal	14

Recommended Electives

BUSN 2410	Critical Thinking for Business Decision Making	2
BUSN 2464	Leading and Coaching Others	2
BUSN 2466	Managing Change and Conflict	2
BUSN 2480	Business Management Internship	2

General Education/MnTC Requirements

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

Goal 1: Communication	7
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	
Goal 5: History, Social Science and Behavioral Sciences	3
ECON 1720 Macroeconomics (required) – 3 cr OR	
ECON 1730 Microeconomics (required) – 3 cr	
Goal 6: Humanities and Fine Arts	3
Goals 1-10 of the Minnesota Transfer Curriculum	13
Select a minimum of 13 additional credits	
General Education Requirements	30

Total Program Credits 60



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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 organizations 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

1. 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.
5. Graduates will be able to develop characteristics, habits, skills and the understanding necessary for leadership in a complex and cross-cultural environment.
6. 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.

Leadership Certificate

Program Requirements

Course		Cr
BTEC 1445	Business Communications	3
BUSN 2410	Critical Thinking for Decision Making	2
BUSN 2450	Management Fundamentals	3
BUSN 2463	Organizational Leadership and Decision Making	3
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 Credits		27

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

1. 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.
2. 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.
9. Graduates will explore the process of negotiating and evaluate negotiation styles.

Program Requirements

Course		Cr
ACCT 2530	Fundamentals of Nonprofit Accounting	4
BTEC 1445	Business Communications	3
BUSN 2440	Fundamentals of Nonprofit Management	3
BUSN 2441	Fundraising Techniques	1
BUSN 2442	Grant Writing and Research	1
BUSN 2443	Dynamics of Board Relations	1
BUSN 2444	Volunteer Program Management	1
BUSN 2445	Legal Environment of Nonprofits	1
BUSN 2463	Organizational Leadership and Decision Making	3
BUSN 2465	Business Ethics	3
BUSN 2471	Strategic Planning	3
BUSN 2472	Business Negotiation Skills	3
Total Program Credits		27

Project Management Certificate

Program Outcomes

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 Requirements

Course		Cr
BTEC 1445	Business Communications	3
BUSN 2463	Organizational Leadership and Decision Management	3
BUSN 2472	Business Negotiation Skills	3
BUSN 2475	Project Management	4
CSCI 2410	Management Information Systems	3
Total Program Credits		16

Supervision Certificate

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 Requirements

Course		Cr
BUSN 1410	Introduction to Business	3
BUSN 2450	Management Fundamentals	3
BUSN 2466	Managing Change and Conflict	2
BUSN 2472	Business Negotiation Skills	3
HMRS 1400	Human Resource Management	3
HMRS 2410	Employee/Labor Relations	3
Total Program Credits		17

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.

Entrepreneurship

Entrepreneurship AAS Degree	60 Credits
Entrepreneurship Certificate	16 Credits
Music Business AAS Degree	60 Credits

Entrepreneurship AAS Degree

ACSBP Accredited

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/Small Business Management 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 entrepreneurial spirit: analyze how an organization contributes to society and how entrepreneurship and commercial activities affect the environment: 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.

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.
3. 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.

Program Requirements

Program Prerequisites

Professional Component

ACCT 1411	Principles of Accounting 1	4
BTEC 1445	Business Communications	3
BTEC 1421	Business Information Applications 1 OR	
CSCI 2410	Management Information Systems	3
BUSN 1410	Introduction to Business	3
BUSN 2470	Legal Environment of Business	3
	Required Business Core	16

Course

BUSN 1440	Marketing Principles	3
BUSN 1482	Business Career Resources	2
BUSN 2450	Management Fundamentals	3
BUSN 2455	Essentials of Entrepreneurship & Small Business Management	3
BUSN 2460	Entrepreneurship Resources	2
BUSN 2472	Business Negotiation Skills	3
BUSN 2482	Entrepreneurship Capstone	3
DGIM 1443	Developing Web Sites with Dreamweaver	2
HMRS 2410	Employee/Labor Relations	3
	Elective credits with advisor approval	4
	Subtotal	28

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course 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	3
ECON 1720 Macroeconomics – 3 cr OR	
ECON 1730 Microeconomics – 3 cr	
Goal 6: Humanities and Fine Arts	3
General Education Requirements	16

Total Program Credits

60

See also *Photography Entrepreneurship AAS Degree*, page 68.

Entrepreneurship Certificate

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.
3. 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 Requirements

Course		Cr
BUSN 2455	Essentials of Entrepreneurship & Small Business Management	3
BUSN 2460	Entrepreneurship Resources	2
BUSN 2472	Business Negotiation Skills	3
BUSN 2482	Entrepreneurship Capstone	3
DGIM 1443	Developing Web Sites with Dreamweaver	2
HMRS 2410	Employee/Labor Relations	3

Total Program Credits

16

Music Business AAS Degree

ACSBP Accredited

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.

Program Outcomes

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



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Program Requirements

Required Business Core		Cr
Professional Component		
ACCT 1411	Principles of Accounting 1	4
BTEC 1445	Business Communications	3
BTEC 1421	Business Information Applications 1 OR	
CSCI 2410	Management Information Systems	3
BUSN 1410	Introduction to Business	3
BUSN 2470	Legal Environment of Business	3
Required Business Core		16
Course		Cr
BUSN 1770	The Business of Music	3
BUSN 1780	Business Trends in Music	3
BUSN 2455	Entrepreneurship and Small Business Management	3
BUSN 2460	Entrepreneurship Resources	2
BUSN 2482	Entrepreneurship Capstone	3
DGIM 1443	Developing Web Sites with Dreamweaver	2
DGIM 1444	CSS with Dreamweaver	2
DGIM 1540	Blogging Applications	2
DGIM 2586	Digital Sound	2
DGIM 2587	Digital Video 1	2
DGIM 2588	Digital Video 2	2
Any 2 Credit DGIM Elective		2
Subtotal		28
General Education/MnTC Requirements		Cr
Refer to the Minnesota Transfer Curriculum Course 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		3
	ECON 1720 Macroeconomics (required) – 3 cr OR	
	ECON 1730 Microeconomics (required) – 3 cr	
Goal 6: Humanities and Fine Arts		3
	Students are strongly encouraged to consider	
	MUSC 1740 Music Appreciation and/or	
	MUSC 1750 Jazz history.	
General Education Requirements		16
Total Program Credits		60

Finance

Finance Certificate 28 Credits

Finance Certificate

Program Overview

The Finance Certificate graduate will work in a finance support position in a company that requires finance and accounting processes completed. A Finance technician must be proficient in summarizing, analyzing and evaluating financial data. The graduate will help prepare spreadsheet, database entries and provide other application software support. Duties may include preparing financial records, documents, and reports.

Students must have a high school diploma or an equivalency certificate. 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

1. 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.
5. 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 Requirements

Course		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
Total Program Credits		28

Global Trade

Global Trade Specialist AAS Degree 60 Credits
 Global Trade Professional Certificate 16 Credits

Global Trade Specialist AAS Degree

ACSBP Accredited

Program Overview

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.

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

1. 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 Requirements

Required Business Core		Cr
Professional Component		
ACCT 1411	Principles of Accounting 1	4
BTEC 1421	Business Information Applications 1 OR	
CSCI 2410	Management Information Systems	3
BTEC 1445	Business Communications	3
BUSN 1410	Introduction to Business	3
BUSN 2470	Legal Environment of Business	3
Required Business Core		16

Course		Cr
BSLM 1410	Transportation Management	3
BSLM 1510	Distribution Management	3
BSLM 2420	Supply Chain Management	4
BUSN 1482	Business Career Resources	2
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 Elective		1
Subtotal		28

General Education/MnTC Requirements

General Education/MnTC Requirements		Cr
Refer to the Minnesota Transfer Curriculum Course List for each Goal Area		
Goal 1: Communication		7
	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	
	Goal 4: Mathematical/Logical Reasoning	
Goal 5: History, Social Science, and Behavioral Sciences		3
	ECON 1720 Macroeconomics (required) – 3 cr OR	
	ECON 1730 Microeconomics (required) – 3 cr	
Goal 6: Humanities and Fine Arts		3
General Education Requirements		16

Total Program Credits 60



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Global Trade Professional Certificate

This certificate is transferable to the AAS program.

Program Outcomes

1. 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.

Program Requirements

Program Advisor approval required.

Course		Cr
BSLM 2420	Supply Chain Management	4
INTL 1410	International Communication and Cultural Awareness	3
INTL 1512	Export Shipping and Compliance	3
INTL 2420	U. S. Customs and Importing	3
INTL 2530	International Marketing	3
Total Program Credits		16

Hospitality Management

Hospitality Management AAS Degree	60 Credits
Restaurant Management Certificate	13 Credits
Event and Meeting Management Certificate	18 Credits

Hospitality Management AAS Degree

ACSBP Accredited

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, and 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 second-largest industry. Nationally, the U.S. Bureau of Labor Statistics estimates have noted that the hospitality industry will generate more than 41,000 new jobs between 2004–2014.

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.



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Program Requirements

Required Business Core		Cr
Professional Component		
ACCT 1411	Principles of Accounting 1	4
BTEC 1421	Business Information Applications 1 OR	
CSCI 2410	Management Information Systems	3
BTEC 1445	Business Communications	3
BUSN 1410	Introduction to Business	3
BUSN 2470	Legal Environment of Business	3
Required Business Core		16

Course		Cr
BUSN 1440	Marketing Principles	3
BUSN 1441	Consumer Behavior	3
BUSN 1482	Business Career Resources	2
BUSN 2450	Management Fundamentals	3
BUSN 2472	Business Negotiation Skills	3
HSPM 1410	Introduction to Hospitality Management	3
HSPM 1421	Introduction to Tourism	2
HSPM 1440	Event Management and Planning	3
HSPM 2420	Hotel and Lodging Operations	3
HSPM 2440	Hospitality Marketing and Sales	3
Subtotal		28

General Education/MnTC Requirements

General Education/MnTC Requirements		Cr
Refer to the Minnesota Transfer Curriculum Course 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		3
	ECON 1720 Macroeconomics (required) – 3 cr OR	
	ECON 1730 Microeconomics (required) – 3 cr	
Goal 6: Humanities and Fine Arts		3
General Education Requirements		16

Total Program Credits **60**

Restaurant Management Certificate

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 Requirements

Course		Cr
BUSN 2450	Management Fundamentals	3
HSPM 1410	Introduction to Hospitality Management	3
CULA 1540	Food Service Supervisory Management	2
CULA 1560	Food/Beverage/Labor Cost Control	3
CULA 1470	Food Service Sanitation	2

Total Program Credits **13**

Event and Meeting Management Certificate

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 Requirements

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

Total Program Credits **18**

Human Resources

Human Resources AAS Degree	60 Credits
Human Resources Specialist Certificate	29 Credits
Human Resources Professional Certificate	18 Credits

Program Overview

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. Typical salaries for entry-level positions range from \$28,000–\$32,000 and for mid-level positions from \$35,000–\$45,000.

Human Resources AAS Degree

ACSBP Accredited

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.

Program Outcomes

1. 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 relations 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 Requirements

Required Business Core		Cr
Professional Component		
ACCT 1411	Principles of Accounting 1	4
BTEC 1421	Business Information Applications 1 OR	
CSCI 2410	Management Information Systems	3
BTEC 1445	Business Communications	3
BUSN 1410	Introduction to Business	3
BUSN 2470	Legal Environment of Business	3
Required Business Core		16
Course		Cr
BUSN 1482	Business Career Resources	2
BUSN 2450	Management Fundamentals	3
HMRS 1400	Human Resource Management	3
HMRS 1490	Talent Management	3
HMRS 1510	HR Information Systems & Records	3
HMRS 1520	Compensation & Benefits Administration	3
HMRS 2410	Employee/Labor Relations	3
HMRS 2420	Employment Law & HR Policies	3
HMRS 2591	Human Resource Internship	3
Subtotal		26
General Education/MnTC Requirements		Cr
Refer to the Minnesota Transfer Curriculum Course 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		3
	ECON 1720 Macroeconomics (required) – 3 cr OR	
	ECON 1730 Microeconomics (required) – 3 cr	
Goal 6: Humanities and Fine Arts		3
Goals 1-10 of the Minnesota Transfer Curriculum		2
	Select a minimum of 13 additional credits	
General Education Requirements		18
Total Program Credits		60

Human Resources Specialist Certificate

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 AAS program.

Program Outcomes

1. 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 relations 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 Requirements

Course		Cr
BUSN 1410	Introduction to Business	3
BUSN 1482	Business Career Resources	2
Choose a SPCH course, 1000 level or higher, or ENGL 1711 or higher		
		3
HMRS 1400	Human Resources Management	3
HMRS 1490	Talent Management	3
HMRS 1510	HR Information Systems & Records	3
HMRS 2410	Employee/Labor Relations	3
HMRS 2420	Employment Law & HR Policies	3
Subtotal		23
Business Electives, choose 6 Credits from the following		6
BTEC XXXX	Business Elective	3
BUSNXXXX	Business Management Elective	3
HMRS 2591	Human Resources Internship	3
Total Program Credits		29

Human Resources Professional Certificate

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.

1. 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 relations 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 Requirements

Course		Cr
HMRS 1400	Human Resource Management	3
HMRS 1490	Talent Management	3
HMRS 1510	HR Information Systems & Records	3
HMRS 1520	Compensation & Benefits Administration	3
HMRS 2410	Employee/Labor Relations	3
HMRS 2420	Employment Law & HR Policies	3
Total Program Credits		18

Marketing

Marketing AAS Degree 60 Credits
 Social Media Marketing Certificate 17 Credits

Marketing AAS Degree

ACSBP Accredited

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

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 market product and services.
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.

Program Requirements

Required Business Core		Cr
Professional Component		
ACCT 1411	Principles of Accounting 1	4
BTEC 1445	Business Communications	3
BTEC 1421	Business Information Applications 1 OR	
CSCI 2410	Management Information Systems	3
BUSN 2470	Legal Environment of Business	3
BUSN 1410	Introduction to Business	3
Required Business Core		16

Course		Cr
BUSN 1440	Marketing Principles	3
BUSN 1441	Consumer Behavior	3
BUSN 1444	Advertising and Promotional Strategies	3
BUSN 1447	Sales and Sales Management	2
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 1482	Business Career Resources	2
Subtotal		28

General Education/MnTC Requirements	Cr
Refer to the Minnesota Transfer Curriculum Course 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	3
ECON 1720 Macroeconomics (required) – 3 cr OR	
ECON 1730 Microeconomics (required) – 3 cr	
Goal 6: Humanities and Fine Arts	3
General Education Requirements	16
Total Program Credits	60

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.



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 Outcomes

1. Develop an understanding of social media and e-marketing and the fundamental shifts on how organizations communicate with its customers.
2. 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.

Program Requirements

Course		Cr
BUSN 1440	Marketing Principles	3
BUSN 1441	Consumer Behavior	3
BUSN 1444	Advertising and Promotional Strategies	3
BUSN 1447	E-Marketing	3
BUSN 1492	Social Media Marketing	3
DGIM 1540	Blogging Applications	2
Total Program Credits		17

Supply Chain Logistics

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

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 cross-functional approach to business that transcends the traditional functional boundaries and management disciplines that characterize many organizations. The certificate is transferable to the 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.

Supply Chain Logistics AAS Degree

ACSBP Accredited

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.
4. Graduates will have knowledge and skills to provide foresight of potential opportunities in the business logistics marketplace.
5. Graduates will have critical thinking skills.

Program Requirements

Required Business Core		Cr
Professional Component		
ACCT 1411	Principles of Accounting 1	4
BTEC 1421	Business Information Applications 1 OR	
CSCI 2410	Management Information Systems	3
BTEC 1445	Business Communications	3
BUSN 1410	Introduction to Business	3
BUSN 2470	Legal Environment of Business	3
Required Business Core		16

Course		Cr
BSLM 1410	Transportation Management	3
BSLM 1510	Distribution Management	3
BSLM 2420	Supply Chain Management	4
BSLM 2450	Purchasing Principles and Applications	3
BUSN 1440	Marketing Principles	3
BUSN 1482	Business Career Resources	2
BUSN 2472	Business Negotiation Skills	3
INTL 1512	Export Shipping and Compliance	3
INTL 2420	U. S. Customs and Importing	3
Subtotal		27

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course 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	3
ECON 1720 Macroeconomics (required) – 3 cr OR	
ECON 1730 Microeconomics (required) – 3 cr	
Goal 6: Humanities and Fine Arts	3
Goals 1-10 of the Minnesota Transfer Curriculum	
Select a minimum of 1 additional credit	1
General Education Requirements	17

Total Program Credits 60



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.

Supply Chain Logistics Advanced Technical Certificate

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.
4. Graduates will have knowledge and skills to provide foresight of potential opportunities in the business logistics marketplace.

Program Requirements

Program Advisor approval required.

Course		Cr
BSLM 1410	Transportation Management	3
BSLM 1510	Distribution Management	3
BSLM 2420	Supply Chain Management	4
BSLM 2450	Purchasing Principles and Applications	3
BUSN 1440	Marketing Principles	3
BUSN 2472	Business Negotiation Skills	3
Total Program Credits		19

Computer Graphics and Visualization

Computer Graphics and Visualization Careers

Computer Graphics and Visualization AS Degree	60 Credits
Visualization Technology AAS Degree	60 Credits
Visualization Technology Certificate	21 Credits
Computer Animation Certificate	18 Credits
Web Design Certificate	18 Credits
Photography Entrepreneurship AAS Degree	60 Credits
Digital Photography Certificate	16 Credits

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, web design, digital photography, multimedia design, and 3D animation.

Visualization students 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, Graphic Artist.

Computer Graphics and Visualization AS Degree

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.
4. Graduates of this program may choose to continue their education at a four-year institution in computer graphics, technical communication or a related field.

Program Requirements

Course		Cr
CSCI 1450	Web Fundamentals/HTML	4
DGIM 1443	Developing Web Sites with Dreamweaver	2
DGIM 1448	Creating Web Animation with Flash	2
DGIM 1483	Photoshop as a Presentation Media	2
DGIM 1540	Blogging Applications	2
DGIM 2570	Digital Photography 1	2
DGIM 2586	Digital Sound	2
DGIM 2587	Digital Video 1	2
DGIM 2600	Introduction to Computer Graphics	4
Subtotal		22
Technical Electives		8
Any 8 credits in DGIM or CSCI		

General Education/MnTC Requirements	Cr
Refer to the Minnesota Transfer Curriculum Course 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 4: Mathematical/Logical Reasoning	3
MATH 17XX– 3 cr OR	
PHIL 1710 Logic – 3 cr	
Goal 5: History, Social Science and Behavioral Sciences	4
Goal 6: Humanities and Fine Arts	7
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	
General Education Requirements	30
Total Program Credits	60

Visualization Technology AAS Degree

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

Program Requirements

Course		Cr
CSCI 1450	Web Fundamentals/HTML	4
DGIM 1448	Creating Web Animation with Flash	2
DGIM 1449	Introduction to Flash Action Script	2
DGIM 2560	Illustrator	4
DGIM 2569	Digital Portfolio Development	2
DGIM 2587	Digital Video 1	2
DGIM 2588	Digital Video 2	2
DGIM 2600	Introduction to Computer Graphics	4
	Subtotal	22
	Technical Elective	6
	Select one of the emphases listed below	12

Web Emphasis

CSCI 1470	Web Design	4
DGIM 1443	Developing Web Sites with Dreamweaver	2
DGIM 1444	CSS with Dreamweaver	2
DGIM 1483	Photoshop as a Presentation Media	2
DGIM 1484	Creating a Portfolio with Photoshop	2
	Total Emphasis Credits	12

Animation Emphasis

DGIM 1490	3D Animation Fundamentals	4
DGIM 2520	3D Character Animation	4
DGIM 2704	3D Animation Capstone	4
	Total Emphasis Credits	12

General Education/MnTC Requirements

	Cr
Refer to the Minnesota Transfer Curriculum Course 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 4: Mathematics/Logical Reasoning	3
MATH 1730 College Algebra – 3 cr OR	
PHIL 1710 Logic – 3 cr	
Goal 5: History, Social Science & Behavioral Sciences	3
Goal 6: Humanities and Fine Arts	3
Goals 1-10 of the Minnesota Transfer Curriculum	4
Select a minimum of 4 additional credits	
General Education Requirements	20
Total Program Credits	60

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. The 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.

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 Requirements

Course		Cr
DGIM 1443	Developing Web Sites with Dreamweaver	2
DGIM 1448	Creating Web Animation with Flash	2
DGIM 1483	Photoshop as a Presentation Media	2
DGIM 2560	Illustrator	4
DGIM 2570	Digital Photography 1	2
DGIM 2600	Introduction to Computer Graphics	4
	Subtotal	16
	Technical Electives	2
	Any 2 credit DGIM or CSCI	
	General Education Requirements	3
	(Select any ARTS course)	
Total Program Credits		21

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 Requirements

Course		Cr
DGIM 1490	3D Animation Fundamentals	4
DGIM 2520	3D Character Animation	4
DGIM 2704	3D Animation Capstone	4
DGIM 2587	Digital Video 1	2
DGIM 2588	Digital Video 2	2
	Subtotal	16
	Technical Electives	2
	Any 2 credits from DGIM	
Total Program Credits		18

Web Design Certificate

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 Requirements

Course		Cr
CSCI 1450	Web Fundamentals/HTML	4
CSCI 1470	Web Design	4
CSCI 2440	Client Side Programming 1	4
DGIM 1443	Developing Web Sites with Dreamweaver	2
DGIM 1448	Creating Web Animation with Flash	2
DGIM 2570	Digital Photography 1	2
Total Program Credits		18

Photography Entrepreneurship AAS Degree

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 Requirements

Course		Cr
BTEC 1445	Business Communications	3
BUSN 2410	Critical Thinking for Decision Making	2
BUSN 2455	Essentials of Entrepreneurship & Small Business Management	3
BUSN 2460	Entrepreneurship Resources	2
BUSN 2472	Business Negotiations	3
BUSN 2482	Entrepreneurship Capstone	3
HMRS 1400	Human Resource Management	3
DGIM 1483	Photoshop as a Presentation Media	2
DGIM 1484	Creating a Portfolio with Photoshop	2
DGIM 2570	Digital Photography 1	2
DGIM 2571	Digital Photography 2	2
DGIM 2575	Photoshop for Photographers	3
DGIM 2576	Commercial Photography	3
DGIM 2577	Digital Presentations	3
DGIM 2578	Photographic Strategies	4
DGIM 2580	Advanced Digital Photography	4
	Subtotal	44

General Education/MnTC Requirements

	Cr
Refer to the Minnesota Transfer Curriculum Course 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	3
Goal 6: Humanities and Fine Arts	3
General Education Requirements	16

Total Program Credits

60

For more entrepreneurship programs, see pages 56-57.

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 program 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.

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 Requirements

Course		Cr
DGIM 1483	Photoshop as a Presentation Media	2
DGIM 1484	Creating a Portfolio with Photoshop	2
DGIM 2570	Digital Photography 1	2
DGIM 2571	Digital Photography 2	2
DGIM 2580	Advanced Digital Photography	4
	Subtotal	12
	Technical Electives	4
	Total Program Credits	16

Health Science & Service Programs

Health Science Programs

Esthetics

Esthetician AAS Degree	72
Esthetician Diploma	73
Esthetician Certificate	73

Health Information Technology and Medical Office Careers

Health Information Technology AAS Degree	74
Healthcare Informatics AAS Degree	75
Medical Office Professional AAS Degree	76
Medical Coding Diploma	76
Medical Office Certificate	77
Medical Transcriptionist Certificate	77

Health Unit Coordinator

Health Unit Coordinator Certificate	77
Nursing Station Technician Certificate	78

Health Sciences

Health Sciences Broad Field AS Degree	78
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Massage Therapy Careers

Clinical Sports Massage AAS Degree	79
Massage Therapy Certificate	80
Clinical Sports Massage Advanced Certificate	80
Reflexology Certificate	80

Medical Laboratory Technician

Medical Laboratory Technician AAS Degree	81
Phlebotomy Technician Certificate	82

Nursing Assistant/Home Health Aide

Nursing Assistant/Home Health Aide Certificate	83
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Personal Trainer

Personal Trainer AAS Degree	83
Personal Trainer Diploma	84
Yoga Instructor Training Certificate	84

Practical Nursing

Practical Nursing Diploma	85
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Respiratory Therapist

Respiratory Therapist AAS Degree	86
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Service Programs

Child Development Careers

Child Development Careers AS Degree	87
Child Development Careers ASL AS Degree	88
Child Development Careers AAS Degree	88
Child Development Careers Diploma	89
Child Development Careers Certificate	89
Child Development Administration Advanced Technology Certificate	89

Cosmetology Careers

Cosmetology AAS Degree	90
Cosmetology Diploma	91
Nail Care Technician Certificate	91

Culinary Arts

Culinary Arts AAS Degree	92
Culinary Arts Diploma	93
Baking and Decorating Certificate	93
Restaurant Management Certificate	93
Short Order Cooking Certificate	94
Wine Professional Certificate	94
Wine and Artisan Foods Certificate	94

Sign Language

Interpreter/Transliterater

Sign Language Interpreter/Transliterater AAS Degree	95
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Health Science Programs

Esthetics

Esthetician AAS Degree	71 Credits
Esthetician Diploma	60 Credits
Esthetician Certificate	27 Credits

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.

Esthetician AAS Spa Technician Emphasis or Esthetician Diploma graduates will meet the criteria for the CIDESCO exam requirement of 1200 hours of training in skin, massage and nail services. Therefore, graduates of these 2 program options are trained in therapeutic skin and body services.

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 dermatologic and plastic surgeon's offices and hospitals. CIDESCO Diploma 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.

Esthetician AAS Degree

Program Outcomes Esthetician AAS – Spa

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 diploma holder.

Program Requirements

Course		Cr
CHSN 1410	Preclinic Introduction (online)	4
CHSN 1420	Body Systems & Diseases (online)	4
CHSN 1445	Cosmetic Chemistry & Makeup Applications	4
CHSN 1450	Skin Analysis & Massage	4
CHSN 1442	Clinic 1 for Estheticians	4
CHSN 1443	Clinic 2 for Estheticians	4
CHSN 1407	Preclinic Nail Care	3
CHSN 2411	CIDESCO Exam Student Preparation <i>Class offered only summer term</i>	3
HLTH 1410	Medical Terminology	1
HLTH 1418	Somatic Practitioner: Business and Ethics	2
HLTH 1420	Anatomy & Physiology	4
HLTH 1425	Clinical Applications in Kinesiology	3
Subtotal		40

Select Medical Esthetician OR Spa Technician Emphasis 14

Medical Esthetician Emphasis

BIOL 1760	Nutrition	3
HLTH 1900	Pathology for the Somatic Practitioner	4
PSYC 1720	Psychology throughout the Lifespan (meets Goal 5 of Gen. Ed Req)	3
HLTH 1455	Yoga Postures/Asanas	2
HLTH 1456	Yoga Relaxation Techniques	2
Total Emphasis Credits		14

Required General Education courses:

CHEM 1711	Principles of Chemistry 1	4
SPCH 1720	Interpersonal Communication	3
General education elective (From Goals 1-10)		3

Spa Technician Emphasis

MASS 1400	Introduction to Therapeutic Massage	4
MASS 1421	Massage Spa Techniques	2
MASS 1422	Massage Clinical Techniques	4
MASS 1480	Massage Therapy Practicum	4
Total Emphasis Credits		14

Required General Education courses:

BIOL 1760	Nutrition	3
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Select from the following electives as needed:

CHSN 1551	Salon Operations 1 for Estheticians	1
CHSN 1552	Salon Operations 2 for Estheticians	2
CHSN 1553	Salon Operations 3 for Estheticians	3

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course 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	3-4
Goal 3: Natural Sciences OR	
Goal 4: Mathematical/Logical Reasoning	
Goal 5: History, Social Science and Behavioral Sciences	3-4
Goal 6: Humanities and Fine Arts	3
General Education Requirements	17

Total Program Credits 71

Esthetician Diploma

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 diploma holder.

Program Requirements

Course	Cr
CHSN 1410 Preclinic Introduction (online)	4
CHSN 1420 Body Systems & Diseases (online)	4
CHSN 1445 Cosmetic Chemistry & Makeup Applications	4
CHSN 1450 Skin Analysis and Massage	4
CHSN 1442 Clinic 1 for Estheticians	4
CHSN 1443 Clinic 2 for Estheticians	4
CHSN 1407 Preclinic Nail Care	3
CHSN 1461 Clinic 1 for Nail Technicians	3
CHSN 2411 CIDESCO Exam Student Preparation <i>Class offered only summer term</i>	3
HLTH 1410 Medical Terminology	1
HLTH 1420 Anatomy & Physiology	4
HLTH 1425 Clinical Applications in Kinesiology	3
HLTH 1460 Nutrition for the Health Professions	2
MASS 1400 Introduction to Therapeutic Massage	4
MASS 1421 Massage Spa Techniques	2
MASS 1422 Massage Clinical Techniques	4
MASS 1480 Massage Therapy Practicum	4
Subtotal	57
General Education Requirements	3
SPCH 1720 Interpersonal Communications (recommended)	

Select from the following electives as needed:

CHSN 1551 Salon Operations 1 for Estheticians	1
CHSN 1552 Salon Operations 2 for Estheticians	2
CHSN 1553 Salon Operations 3 for Estheticians	3

Total Program Credits **60**

Esthetician Certificate

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.

Program Requirements

Course	Cr
CHSN 1410 Preclinic Introduction (online)	4
CHSN 1420 Body Systems & Diseases (online)	4
CHSN 1445 Cosmetic Chemistry & Makeup Applications	4
CHSN 1450 Skin Analysis & Massage	4
CHSN 1442 Clinic 1 for Estheticians	4
CHSN 1443 Clinic 2 for Estheticians	4
Subtotal	24
General Education Requirements	3
SPCH 1720 Interpersonal Communication (recommended)	

Select from the following electives as needed:

CHSN 1551 Salon Operations 1 for Estheticians	1
CHSN 1552 Salon Operations 2 for Estheticians	2
CHSN 1553 Salon Operations 3 for Estheticians	3

Total Program Credits **27**

Saint Paul College's Esthetician Program is a CIDESCO school. This means the program is allowed to prepare candidates for the CIDESCO examination.

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Web site: www.cidesco.com



Health Information Technology and Medical Office Careers

Health Information Technology AAS Degree	65 Credits
Healthcare Informatics AAS Degree	60 Credits
Medical Office Professional AAS Degree	60 Credits
Medical Coding Diploma	34 Credits
Medical Office Certificate	20 Credits
Medical Transcriptionist Certificate	30 Credits

Health Information Technology AAS Degree



The Health Information Technology AAS Degree Program is accredited by the Commission on Accreditation of 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-CM and CPT/HCPCS.
4. 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) certification examination.

Program Requirements

Program Prerequisites

BTEC 1400	Keyboarding (2 cr)
BTEC 1418	Computer Fundamentals (3 cr)

Course		Cr
BTEC 1421	Business Information Applications 1	3
BUSN 1480	Business Career Resources	1
MEDS 1420	Health Information Foundations	3
MEDS 1470	Anatomy & Physiology/Medical Office	3
MEDS 1480	Medical Terminology	3
MEDS 1560	Computerized Health Information	3
MEDS 1562	Billing and Reimbursement	2
MEDS 1570	Human Disease	3
MEDS 2430	Pharmacology for the Medical Office	2
MEDS 2432	Alternative Health Record Systems	2
MEDS 2434	Legal and Ethical Aspects of Health Information	2
MEDS 2440	Supervision of Health Information	2
MEDS 2461	ICD-10-CM Coding	3
MEDS 2462	ICD-10-PCS Coding	4
MEDS 2470	CPT-4 Coding	3
MEDS 2480	Advanced Coding	3
MEDS 2510	Quality Management and Health Statistics	3
MEDS 2590	HIT Internship/Capstone Project	3
	Subtotal	48

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course 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	3
Goal 6: Humanities and Fine Arts	3

General Education Requirements

Total Program Credits **64**

Healthcare Informatics AAS Degree

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

1. 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.
3. Graduates will apply knowledge and skill set 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 Requirements

Program Prerequisites

BTEC 1400	Keyboarding (2 cr)
BTEC 1418	Computer Fundamentals (3 cr)

Course		Cr
MEDS 1420	Health Information Foundations	3
MEDS 1470	Anatomy & Physiology/Medical Office	3
MEDS 1480	Medical Terminology	3
MEDS 1560	Computerized Health Information	3
MEDS 2432	Alternative Health Record Systems	2
MEDS 2434	Legal and Ethical Aspects of Health Information	2
MEDS 2440	Supervision of Health Information	2
MEDS 2510	Quality Management and Health Statistics	3
CSCI 1410	Computer Science and Information Systems	4
CSCI 1440	Networking Fundamentals	4
CSCI 1521	Structures of Computer Programming 1	4
CSCI 1550	Database Management Fundamentals	4
CSCI 2410	Management Information Systems	3
CSCI 2570	Machine Architecture and Organization	4
	Subtotal	44

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course 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 4: Mathematical/Logical Reasoning		3
MATH 1730 Algebra – 3 cr		
Goal 5: History, Social Science and Behavioral Sciences		3
Goal 6: Humanities and Fine Arts		3
	General Education Requirements	16

Total Program Credits **60**

Medical Office Careers

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 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, coding of diagnoses and procedures, scheduling patient appointments, pulling and filing of medical records, releasing of information, collecting or abstracting medical data, understanding reimbursement methodologies, meeting physician documentation needs, as well as 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 for long periods of time, listening to dictated material for an extended period, assisting the public with concerns and being given a directive to complete.

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 clinic, 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 immediate employment as a Medical Office Professional.
2. Graduates will have successfully mastered the general education requirements for work and life roles.
3. Graduates will be proficient in the use of basic computer software applications.
4. Graduates will possess a complete understanding of the language of medicine or medical terminology.

Medical Office Professional AAS Degree

Program Requirements

Program Prerequisites

BTEC 1400	Keyboarding (2 cr)
BTEC 1418	Computer Fundamentals (3 cr)

Course		Cr
BTEC 1421	Business Information Applications 1	3
BTEC 1423	Business Information Applications 2	4
BTEC 2410	Business Procedures	4
BUSN 1410	Introduction to Business	3
BUSN 1480	Career Resources	1
MEDS 1420	Health Information Foundations	3
MEDS 1470	Anatomy & Physiology/Medical Office	3
MEDS 1480	Medical Terminology	3
MEDS 1551	Medical Formatting/Transcription 1	3
MEDS 1552	Medical Transcription 2	3
MEDS 1553	Medical Transcription 3	3
MEDS 1560	Computerized Health Information	3
MEDS 1570	Human Disease	3
MEDS 2430	Pharmacology for the Medical Office	2
Subtotal		41

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course 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	3
Goal 6: Humanities and Fine Arts	3
Goals 1-10 of the Minnesota Transfer Curriculum	3
Select a minimum of 3 additional credits	

General Education Requirements 19

Total Program Credits 60

Medical Coding Diploma

Program Requirements

Program Prerequisites

BTEC 1400	Keyboarding (2 cr)
BTEC 1418	Computer Fundamentals (3 cr)

Course		Cr
BTEC 1421	Business Information Applications 1	3
BUSN 1480	Career Resources	1
MEDS 1420	Health Information Foundations	3
MEDS 1470	Anatomy & Physiology/Medical Office	3
MEDS 1480	Medical Terminology	3
MEDS 1560	Computerized Health Information	3
MEDS 1570	Human Disease	3
MEDS 2430	Pharmacology for the Medical Office	2
MEDS 2461	ICD-10-CM Coding	3
MEDS 2462	ICD-10-PCS Coding	4
MEDS 2470	CPT-4 Coding	3
MEDS 2480	Advanced Coding	3

Total Program Credits 34

Medical Office Certificate

Program Requirements

Program Prerequisites

BTEC 1400	Keyboarding (2 cr)
BTEC 1418	Computer Fundamentals (3 cr)

Course	Cr
BTEC 1421	3
BTEC 1530	4
BUSN 1480	1
MEDS 1420	3
MEDS 1470	3
MEDS 1480	3
MEDS 1560	3

Total Program Credits **20**

Medical Transcriptionist Certificate

Program Requirements

Program Prerequisites

BTEC 1400	Keyboarding (2 cr)
BTEC 1418	Computer Fundamentals (3 cr)

Course	Cr
BTEC 1421	3
BUSN 1480	1
MEDS 1420	3
MEDS 1470	3
MEDS 1480	3
MEDS 1551	3
MEDS 1552	3
MEDS 1553	3
MEDS 1560	3
MEDS 1570	3
MEDS 2430	2

Total Program Credits **30**

Health Unit Coordinator

Health Unit Coordinator Certificate 17 Credits
 Nursing Station Technician Certificate 25 Credits

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.

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, 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.

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.

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 immediate employment as a HUC.
6. Graduates will be prepared for the National HUC certification exam.

Program Requirements

Course		Cr
HLUC 1410	Diagnostic & Therapeutic Procedures	4
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

Total Program Credits **17**

This program meets National Association of HUC Standards and prepares students for the National HUC certification exam.
 NAHUC Web site: www.NAHUC.org

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 training in the 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 Nursing Assistant/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.

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.

Program Requirements

Course		Cr
HLUC 1410	Diagnostic & Therapeutic Procedures	4
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	4
NAST 1112	Nursing Assistant – Clinical	1
	Subtotal	22
	General Education Requirements	3
	(SPCH 1720 Interpersonal Communication OR SPCH 1730 Intercultural Communication is recommended)	
	Total Program Credits	25

Health Sciences

Health Sciences Broad Field AS Degree 60 Credits

Health Sciences Broad Field AS Degree

Program Overview

The Health Sciences AS degree is designed to be broad and provide general background information for students interested in health sciences but have not yet decided which specific health care field they intend to pursue.

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.

Program Requirements

Course		Cr
BIOL 1740	General Biology 1: The Living Cell	5
BIOL 1760	Nutrition	3
BIOL 2721	Human Anatomy and Physiology 1	4
BIOL 2722	Human Anatomy and Physiology 2	4
BIOL 2750	General Microbiology	4
CHEM 1711	Principles of Chemistry 1	4
ENGL 1711	Composition 1	4
MATH 1730	College Algebra	3
MATH 1740	Introduction to Statistics	4
PHIL 1722	Health Care Ethics	3
PSYC 1710	General Psychology	4
PSYC 1720	Psychology throughout the Lifespan	3
SOCI 1710	Introduction to Sociology	4
SPCH 1720	Interpersonal Communication	3
	Subtotal	52
	Liberal Arts or Science Electives	8
	Total Program Credits	60

Massage Therapy Careers

Clinical Sports Massage AAS Degree	66 Credits
Massage Therapy Certificate	30 Credits
Clinical Sports Massage Advanced Certificate	26 Credits
Reflexology Certificate	23 Credits

Massage Therapy

Program Overview

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. Graduates of the Clinical Sports Massage Therapy 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.

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. 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). Licensing or certification exams are independent of graduation requirements.

Clinical Sports Massage AAS Degree

Program Outcomes

1. Graduates will provide application of manual techniques to positively contribute to the wellbeing 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.
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.

Program Requirements

Course		Cr
HLTH 1418	Somatic Practitioner: Business & Ethics	2
HLTH 1421	Anatomy & Physiology for Somatic Practitioners	4
HLTH 1422	Wellness Coaching	4
HLTH 1425	Clinical Applications in Kinesiology	3
HLTH 1465	Functional Holistic Nutrition	4
HLTH 1485	Therapeutic Exercise	5
HLTH 1900	Pathology for the Somatic Practitioner	4
MASS 1400	Introduction to Therapeutic Massage	4
MASS 1421	Massage Spa Techniques	2
MASS 1422	Massage Clinical Techniques	4

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
MASS 1490	Clinical Massage Internship	5
	Subtotal	50

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course 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: Natural Sciences	3
BIOL 1760 Nutrition – 3 cr (recommended)	
Goal 5: History, Social Science and Behavioral Sciences	3
PSYC 1750 Introduction to Health Psychology – 3 cr (recommended)	
Goal 6: Humanities and Fine Arts	3
General Education Requirements	16

Total Program Credits 66

Massage Therapy Certificate

Program Outcomes

1. Graduates will provide application of manual techniques to positively contribute to the wellbeing 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 Requirements

Course	Cr
HLTH 1418 Somatic Practitioner: Business & Ethics	2
HLTH 1421 Anatomy and Physiology for Somatic Practitioners	4
HLTH 1425 Clinical Applications in Kinesiology	3
HLTH 1465 Functional Holistic Nutrition	4
MASS 1400 Introduction to Therapeutic Massage	4
MASS 1421 Massage Spa Techniques	2
MASS 1422 Massage Clinical Techniques	4
A CPR course/certificate must be completed prior to taking MASS 1480 Massage Therapy Practicum	
MASS 1480 Massage Therapy Practicum	4
Subtotal	27
General Education Requirements	
PSYC 1750 Intro to Health Psychology (recommended)	3
Total Program Credits	30

Clinical Sports Massage Advanced Certificate

Program Outcomes

1. Graduates will provide application of manual techniques to positively contribute to the wellbeing of the client in a safe and skillful manner.
2. 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 Requirements

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
Subtotal	23
General Education Requirements	
PSYC 1750 Intro to Health Psychology (recommended)	3
Total Program Credits	26

Reflexology Certificate

Program Overview

Reflexology is a complementary therapy that works on the feet or hands enabling the body to heal itself. Reflexology can be used to restore and maintain the body's natural equilibrium and encourage healing by causing a relaxation response in the corresponding body part. A Reflexologist uses hands only to apply pressure to the feet and/or hands. For each person the application and the effect of the therapy is unique. Reflexology is suitable for acute and chronic conditions, stress related conditions and as preventative therapy. Graduates will perform skills in reflexology and clearly understand the difference between consultative and prescriptive healing practices.

Career Opportunities

Reflexology can be a stand-alone modality or easily incorporated into a massage, esthetics and/or nail service.

Legal requirements for reflexologists vary from state to state. The American Reflexology Certification Board was established in 1991 and administered the first exam in 1992. The current version of the exam has been in use since 1998 and requires a minimum of 110 hours of training and 90 post graduate sessions. The College's Reflexology Certificate provides over 300 hours of training in the required content areas of the exam. Currently, Minnesota has a full and fair disclosure requirement. There are municipality-by-municipality regulations. A majority of reflexologists are self-employed. With increased interest in complementary and alternative therapy and more demand for personal investment services, opportunities will be available to those skilled in various modalities such as reflexology.

Program Outcomes

1. Graduates will provide application of reflexology techniques to contribute to restoring balance in the body.
2. Graduates will recognize indications and contraindications to reflexology services.
3. Graduates will be prepared to deliver reflexology services in the employment setting.

Program Requirements

Course	Cr
HLTH 1410 Medical Terminology	1
HLTH 1418 Somatic Practitioner: Business and Ethics	2
HLTH 1420 Anatomy & Physiology	4
HLTH 1425 Clinical Applications in Kinesiology	3
HLTH 1900 Pathology for the Somatic Practitioner	4
MASS 1471 Reflexology 1	3
MASS 1472 Reflexology 2	3
Subtotal	20
General Education Requirements	
PSYC 1720 Psychology throughout the Lifespan (recommended)	3
Total Program Credits	23

Medical Laboratory Technician

Medical Laboratory Technician AAS Degree 72 Credits
 Phlebotomy Technician Certificate 16 Credits

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; 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, or count cells and look for abnormal cells. 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 at Saint Paul College is a combination of classroom, laboratory and applied experiences that will provide students with training needed for employment in Medical Laboratory careers. Following the on-campus 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 affective skill competency.

Upon completion of the program, the student is eligible to take an examination administered by the Board of Certification under the direction of ASCP. Licensing or certification are independent of graduation requirements, but required for most employment opportunities in this area.

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 employers. Technicians are employed in hospital laboratories, clinics, doctor's offices, public health agencies and pharmaceutical, industrial, and medical research laboratories.

Program Outcomes

1. The graduate will demonstrate proper use, calibration, adjustment, and operation of most laboratory precision instrumentation including clinical microscopes, spectrophotometers, centrifuges, automated 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 the 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 and immunology.
6. The graduate will be prepared to take the examination administered by the Board of Certification under the direction of ASCP.
7. The graduate will demonstrate preparedness for entry level employment as a Medical Laboratory Technician, including both technical expertise and professionalism.

Application to the Medical Lab Technician Program / Minimum Requirements:

Students begin the Medical Lab Technician technical course sequence in the fall semester only, once they have been accepted to the Medical Lab Technician Major. To apply to become an Medical Laboratory Technician major; students must demonstrate readiness for ENGL 1711 and CHEM 1711 through assessment scores, completion of course prerequisite, or prior completion of each course or its equivalent. Additionally, applicants must have a cumulative GPA of college level courses that is 2.8 or higher.

This program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences.

NAACLS
 5600 N River Rd., Suite 720
 Rosemount, IL 60018-5119
 Phone: 773.714.8880
 Fax: 773.714.8886
 E-mail: info@naacls.org
 URL: www.naacls.org

Medical Laboratory Technician AAS Degree

Program Requirements

Course	Cr
HLTH 1410 Medical Terminology	1
MDLT 1400 Orientation	1
MDLT 1410 Laboratory Techniques	3
MDLT 1421 Hematology 1	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 Mycology/Parasitology	2
MDLT 2410 Immunohematology	3
MDLT 2420 Clinical Microbiology	4
MDLT 2430 Clinical Practice Orientation	1
MDLT 2591 Clinical Practice	9
MDLT 2593 Comprehensive Examinations	1
Subtotal	43

Select from the following electives as needed:

MDLT 1451 Learning Lab 1–Introductory Skills	1
MDLT 1452 Learning Lab 2–Introductory Skills	1
MDLT 1453 Learning Lab 3–Intermediate Skills	1
MDLT 1454 Learning Lab 4–Intermediate Skills	1
MDLT 2455 Learning Lab 5–Advanced Skills	1
MDLT 2456 Learning Lab 6–Advanced Skills	1

General Education/MnTC Requirements

General Education/MnTC Requirements	Cr
Refer to the Minnesota Transfer Curriculum Course List for each Goal Area	
Goal 1: Communication	7
ENGL 1711 Composition 1 (required) – 4 cr	
Required:	
SPCH 1710 Fundamentals of Public Speaking – 3 cr OR	
SPCH 1720 Interpersonal Communications – 3 cr	
Goal 3: Natural Sciences	16
BIOL 1730 Human Body Systems (required) – 3 cr	
BIOL 1740 General Biology 1: The Living Cell (required) – 5 cr	
CHEM1711 Principles of Chemistry 1 (required) – 4 cr	
CHEM1712 Principles of Chemistry 2 (required) – 4 cr	
Goal 5: History, Social Science and Behavioral Sciences	3
PSYC 1710 General Psychology OR	
SOCI 1720 Social Problems (recommended)	
Goal 6: Humanities and Fine Arts	3
PHIL 1722 Health Care Ethics (recommended)	
General Education Requirements	29

Total Program Credits **72**

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 professionals become the face of the 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 at Saint Paul College 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.

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. Licensing or certification are independent of graduation requirements, but required for most employment opportunities in this area.

Career Opportunities

Phlebotomy Technicians are employed in a variety of settings including hospitals, clinics, blood donation centers and other outpatient care centers.

Program Outcomes

1. 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.
5. 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.

Program Requirements

Course		Cr
HLTH 1410	Medical Terminology	1
HLTH 1430	CPR/First Aid OR	
HLTH 1432	CPR for the Professional Rescuer and Health Care Provider	1
PHLB 1400	Phlebotomy	3
PHLB 1410	Phlebotomy Clinical Experience	2
BIOL 1730	Human Body Systems	3
PHIL 1722	Health Care Ethics	3
SPCH 1710	Fundamentals of Public Speaking OR	
SPCH 1720	Interpersonal Communication	3
Total Program Credits		16

Nursing Assistant/Home Health Aide

Nursing Assistant/Home Health Aide Certificate . . . 5 Credits

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) to be placed on the Minnesota State Nursing Assistant Registry. Qualifications include achieving appropriate assessment scores. Licensing certification or registry status are independent of graduation requirements.

Career Opportunities

Nursing assistants must be on the Minnesota State Nursing Assistant Registry to be employed in the long term care setting. In Minnesota, employment for nursing assistants is expected to grow.

Program Outcomes

1. 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.

Program Requirements

Course		Cr
NAST 1111	Nursing Assistant & Home Health Aide	4
NAST 1112	Nursing Assistant – Clinical	1
Total Program Credits		5

Personal Trainer

Personal Trainer AAS Degree	60 Credits
Personal Trainer Diploma	47 Credits
Yoga Instructor Training Certificate	16 Credits

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

According to IHRSA research, “the US Health Club Industry provides services to over 36.3 million health club members and employed 205,000 full-time employees in 2004. Fifty percent of these Clubs identified Personal Training as their number one most profitable service.” The US Bureau of Labor and Statistics listed the Personal Fitness Trainer as one of the top overall job openings. They also cited it as the “third fastest growing occupation requiring Post Secondary Vocational School training and is expecting 44% growth by year 2012.” Graduates perform personal training duties at fitness centers, health clubs, private clubs, sports rehabilitation facilities, or may work in a private practice.

Personal Trainer AAS Degree

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 Requirements

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	5
	Subtotal	44

General Education/MnTC Requirements

	Cr
Refer to the Minnesota Transfer Curriculum Course 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: Natural Sciences	3
BIOL 1760 Nutrition - 3 cr	
Goal 5: History, Social Science and Behavioral Sciences	3
PSYC 1750 Introduction to Health Psychology – 3 cr (recommended)	
Goal 6: Humanities and Fine Arts	3
General Education Requirements	16

Total Program Credits **60**

Personal Trainer Diploma

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.

Program Requirements

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 1465	Functional Holistic Nutrition	4
HLTH 1485	Therapeutic Exercise	5
HLTH 1900	Pathology for the Somatic Practitioner	4
PTRN 1410	Personal Training 1	5
PTRN 1420	Personal Training 2	5
PTRN 1430	Functional Exercise Physiology	3
PTRN 1490	Personal Training Internship	5
	Subtotal	44
	General Education Requirements	3
	PSYC 1750 Intro to Health Psychology (recommended)	

Total Program Credits **47**

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 the 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 Yoga Alliance 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 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 Requirements

Course		Cr
HLTH 1420	Anatomy and Physiology	4
HLTH 1455	Yoga Postures/Asanas	2
HLTH 1456	Yoga Relaxation Techniques	2
HLTH 1457	Yoga Postures 2	2
HLTH 1540	Intro to Techniques for the Yoga Instructor	3
	Subtotal	13
	General Education Course of Choice	3
	Refer to the Minnesota Transfer Curriculum Course List.	

Total Program Credits **16**

Practical Nursing

Practical Nursing Diploma 55 Credits

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.

Career Opportunities

Employment of LPN's is expected to increase faster than the average for all occupations. Employment of LPN's is expected to grow by 21% between 2008 and 2018. 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). Licensure is independent of graduation requirements.

Program Outcomes

1. 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.

Nursing Articulation Agreement

Saint Paul College recognizes Practical Nursing graduates often continue their studies into a professional nursing program. PRNS courses are received by the receiving college together with general education course completion. Professional Nursing programs have specific General Education (chemistry and biology) course requirements. The receiving college determines which courses are accepted in transfer. Please refer questions regarding transferring to a Professional Nursing Program to the Transfer Specialist at 651.846.1739. Minnesota State Colleges and Universities has a Nursing Articulation Agreement which describes the conditions of PN program completion to an Associate degree professional nursing program.

Program Requirements

Course	Cr
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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.

HLTH 1410	Medical Terminology	1
HLTH 1420	Anatomy & Physiology	4
HLTH 1460	Nutrition for the Health Professions	2
	Health Core Credits	7
ENGL 1711	Composition 1 (Fulfills Gen. Ed. Requirement – Goal 1)	4
	Subtotal General Education Requirements	4
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	

Course	Cr
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These General Education Courses must be completed before you will be allowed to register for the Core PRNS courses.

PHIL 1722	Health Care Ethics (Fulfills Gen. Ed. Requirement – Goal 6)	3
PSYC 1720	Psychology throughout the Lifespan (Fulfills Gen. Ed. Requirement – Goal 5)	3
SPCH 1720	Interpersonal Communication OR	3
SPCH 1730	Intercultural Communication OR	
SPCH 1750	Small Group Communication (Fulfills Gen. Ed. Requirement – Goal 1)	
	Subtotal General Education Requirements	9

PRNS Core Course	Cr
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PRNS 1420	Essentials of Clinical Pharmacology	3
PRNS 2410	Psycho/Social Nursing	2
PRNS 1430	Fundamentals of Nursing	5
PRNS 1521	Medical Surgical 1	4
PRNS 1491	Clinical 1	4

A CPR course/certificate must be completed prior to taking PRNS 1492 Clinical 2

PRNS 1492	Clinical 2	4
PRNS 1493	Clinical 3	4
PRNS 1522	Medical Surgical 2	4
PRNS 1530	Maternal Child Health	3
PRNS 2491	Transition to Practice	2
	PRNS Core Credits	35
	Health Core Credits	7
	General Education Requirements	13

Total Program Credits 55

For more information about the Practical Nursing program curriculum, please contact the Nursing Director, Mary Olson 651.846.1379 or mary.olson@saintpaul.edu

This program is accredited by the National League for Nursing Accrediting Commission

3343 Peachtree Road, NE
Suite 850
Atlanta, Georgia 30326
Phone: 404.975.5000
Fax: 404.975.5020
URL: www.nlnac.org

Respiratory Therapist

Respiratory Therapist AAS Degree 78 Credits

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. Students must have a high school diploma or equivalency certificate. 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.

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.

Program Outcomes

1. Graduates will have demonstrated knowledge and skills in Respiratory Therapy clinical experiences.
2. 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 Requirements

Program Prerequisite

HLTH 1410 Medical Terminology (1 cr)

Course		Cr
HLTH 1420	Anatomy & Physiology	4
RESP 1411	Respiratory Care Essentials	2
RESP 1412	Respiratory Care Essentials Lab	1
Completion of American Heart Association CPR Course "C". Must be completed first fall semester of Respiratory Therapist major. American Red Cross training does not fulfill the requirement.		
RESP 1510	Cardiopulmonary Pathophysiology 1	3
RESP 1521	Respiratory Care Therapeutics	4
RESP 1522	Respiratory Care Therapeutics Lab	1
RESP 1540	Respiratory Care Pharmacology	2
RESP 1591	Respiratory Care Clinical 1	2
RESP 1592	Respiratory Care Clinical 2	3
RESP 1593	Respiratory Care Clinical 3	4
RESP 1594	Respiratory Care Clinical 4	6
RESP 1596	Respiratory Care Clinical 5	5
RESP 2411	Mechanical Ventilation	3
RESP 2412	Mechanical Ventilation Lab	1
RESP 2420	Cardiopulmonary Pathophysiology 2	1
RESP 2430	Neonatal/Pediatric Respiratory Care	2
RESP 2440	Management of the Critically Ill Patient	4
RESP 2450	Cardiopulmonary Diagnostics	1
RESP 2470	Registry Review	3
RESP 2510	Survey of Human Disease	2
RESP 2571	Advanced Clinical Life Support Simulation Training	2
Program Major Credits		56

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course 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: Natural Sciences	9
BIOL 1740 General Biology 1: The Living Cell – 5 cr	
CHEM 1711 Principles of Chemistry 1 – 4 cr	
Goal 5: History, Social Science and Behavioral Sciences	3
Goal 6: Humanities and Fine Arts	3
PHIL 1722 Health Care Ethics – 3 cr	
General Education Requirements	22

Total Program Credits 78

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



Service Programs

Child Development Careers

Child Development Careers AS Degree	60 Credits
Child Development Careers ASL AS Degree	60 Credits
Child Development Careers AAS Degree.	62 Credits
Child Development Careers Diploma	32 Credits
Child Development Careers Certificate	16 Credits
Child Development Administration Advanced Technical Certificate.	10 Credits

Program Overview

These programs are designed to prepare individuals for employment in a variety of early childhood settings. Courses were designed in collaboration with the other Minnesota Technical and Community Colleges. This program area offers a certificate, diploma, AAS and AS Degree. All coursework meets Minnesota Department of Human Services educational requirements for early childhood teachers and assistant teachers. Throughout the program, students will learn about child development, guidance, professional relationships, nutrition, health and safety, cultural sensitivity and techniques for promoting learning in young children. Each level provides lab or practicum opportunities which allow students to apply their skills and knowledge in a practical experience.

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

The field of Child Development Careers offers many opportunities for employment as more and more parents seek quality care and educational programs for their children. There is currently such a high demand for trained child development professionals that our job placement rate is well over 95%. The Bureau of Labor Statistics estimates that the employment outlook will grow faster than average through 2018.

Graduates of the Child Development Certificate Program will qualify to work as an assistant teacher in a child care setting or preschool program, a family child care provider, or nanny.

Graduates of the Child Development Diploma Program will qualify to work at any of the previous occupations (at a higher pay rate) as well as a lead teacher in a child care setting or preschool program, an assistant teacher in a Head Start program, or a child care resource and referral counselor.

Graduates of the Child Development AAS or AS program will qualify to work at any of the previous occupations (at a higher pay rate) as well as a Lead Teacher in a Head Start program, a teacher assistant or education assistant in the public schools, Early Childhood Special Education, Early

Childhood Family Education, or a Child Life Assistant (working with children in a hospital setting). The ASL/AS program qualifies the graduate to work in the same programs as listed; however, this program has a focus on using ASL in a child development setting.

Child Development Careers AS Degree

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.
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.
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 Requirements

Course	Cr
CDEV 1200 Introduction to Early Childhood Education	3
CDEV 1210 Child Growth and Development	3
CDEV 1220 Health, Safety and Nutrition	3
CDEV 1230 Guiding Children's Behavior	3
CDEV 1240 Learning Environment and Curriculum	4
CDEV 1316 Observation and Assessment	3
CDEV 2640 Curriculum Planning	3
CDEV 1910 Practicum 1	3
CDEV 2320 Children with Differing Abilities	3
CDEV 2600 Organizational Leadership and Management	2
Subtotal	30

General Education/MnTC Requirements

General Education/MnTC Requirements	Cr
Refer to the Minnesota Transfer Curriculum Course 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	3
Goals 1-10 of the Minnesota Transfer Curriculum	13
Select a minimum of 13 additional credits	
General Education Requirements	30

Total Program Credits 60

Child Development Careers ASL AS Degree

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.
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.
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 Requirements

Course		Cr
CDEV 1200	Introduction to Early Childhood Education	3
CDEV 1210	Child Growth and Development	3
CDEV 1220	Health, Safety and Nutrition	3
CDEV 1230	Guiding Children's Behavior	3
CDEV 1240	Learning Environment and Curriculum	4
CDEV 2320	Children with Differing Abilities	3
CDEV 2560	Language & Literature Learning Experiences	3
CDEV 2599	Practicum 1: Special Settings/ASL	2
ASLS 1411	American Sign Language 1	3
ASLS 1412	American Sign Language 2	3
Subtotal		30

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course 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	3
Goals 1-10 of the Minnesota Transfer Curriculum	13
Select a minimum of 13 additional credits	
General Education Requirements	30

Total Program Credits 60

Child Development Careers AAS Degree

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.
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.
7. Graduates will possess the knowledge and skills for immediate employment in the Child Development field.

Program Requirements

Course		Cr
CDEV 1200	Introduction to Early Childhood Education	3
CDEV 1210	Child Growth and Development	3
CDEV 1220	Health, Safety and Nutrition	3
CDEV 1230	Guiding Children's Behavior	3
CDEV 1240	Learning Environment and Curriculum	4
CDEV 1316	Observation and Assessment	3
CDEV 2640	Curriculum Planning	3
CDEV 1910	Practicum 1	3
CDEV 2320	Children with Differing Abilities	3
CDEV 2600	Organizational Leadership and Management	2
CDEV 2560	Language & Literature Learning Experiences OR CDEV 2550 Math, Science, and Technology for Young Children	3
CDEV 2610	Practicum 2	3
Subtotal		36
Electives: Choose a minimum of 6 credits from the following Technical Electives:		6
CDEV 2520	The Peaceful Classroom	3
CDEV 2530	Children with Challenging Behaviors	3
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	3
CDEV 2580	Creative Development & Learning Experiences	3
CDEV 2590	Social-Emotional Development and Learning Experiences	3
CDEV 2597	Special Topics	1-4

<u>General Education/MnTC Requirements</u>	<u>Cr</u>
Refer to the Minnesota Transfer Curriculum Course 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	3
any may be taken, however	
SOCL 1720 Social Problems OR	
SOCL 1730 Sociology of Families & Relationships (recommended)	
Goal 6: Humanities and Fine Arts	3
Goals 1-10 of the Minnesota Transfer Curriculum	4
Select a minimum of 4 additional credits	
General Education Requirements	20
Total Program Credits	60

Child Development Careers Diploma

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.
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.

Program Requirements

<u>Course</u>	<u>Cr</u>
CDEV 1200 Introduction to Early Childhood Education	3
CDEV 1210 Child Growth and Development	3
CDEV 1220 Health, Safety and Nutrition	3
CDEV 1230 Guiding Children's Behavior	3
CDEV 1240 Learning Environment and Curriculum	4
CDEV 1316 Observation and Assessment	3
CDEV 2640 Curriculum Planning	3
CDEV 1910 Practicum 1	3
Subtotal	25
General Education Requirements	7
ENGL 1711 Composition 1 (required)	4
SOCI 17XX Any SOCI may be taken, however	3
SOCI 1720 Social Problems (3 cr) OR	
SOCI 1730 Sociology of Families and Relationships is recommended (3 cr)	
Total Program Credits	32

Child Development Careers Certificate

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.
4. Graduates will demonstrate the knowledge and skills in positive family, community, and staff relations.

Program Requirements

<u>Course</u>	<u>Cr</u>
CDEV 1200 Introduction to Early Childhood Education	3
CDEV 1210 Child Growth and Development	3
CDEV 1220 Health, Safety and Nutrition	3
CDEV 1230 Guiding Children's Behavior	3
CDEV 1240 Learning Environment and Curriculum	4
Total Program Credits	16

Child Development Administration Advanced Technical Certificate

The Child Development Administration Advanced Technical Certificate is for current early childhood program directors and assistant directors who seek advanced certification.

For this certificate please see the Child Development program advisor.

Program Requirements

<u>Course</u>	<u>Cr</u>
CDEV 2800 Child Development Administration	3
CDEV 2820 Child Development Financial Management	3
CDEV 2840 Child Development Staffing & Supervision	3
CDEV 2860 Advanced Internship – Administration of a Child Development Setting	1
Total Program Credits	10

Cosmetology Careers

Cosmetology AAS Degree	72 Credits
Cosmetology Diploma	59 Credits
Nail Care Technician Certificate	16 Credits

Program Overview

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.

Students must have a high school diploma or equivalent (GED). 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 and nail technician should enjoy working with the public and in a team atmosphere. People skills and time management skills are essential.

Career Opportunities

The job outlook has never been better 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.

After Nail 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.

Cosmetology AAS Degree

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 Requirements

Course		Cr
CHSN 1410	Preclinic Introduction	4
CHSN 1420	Body Systems & Diseases	4
CHSN 1405	Preclinic Hair Care 1	3
CHSN 1406	Preclinic Hair Care 2	3
CHSN 1407	Preclinic Nail Care	3
CHSN 1409	Preclinic Chemical Control	3
CHSN 1413	Preclinic Hair Color	3
CHSN 1418	Advanced Hair Care	4
CHSN 1445	Cosmetic Chemistry & Makeup Applications	4
CHSN 1450	Skin Analysis & Massage	4
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		53
Required Technical Electives		3
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		Cr
Refer to the Minnesota Transfer Curriculum Course List for each Goal Area		
Goal 1: Communication		7
	ENGL 1711 Composition 1 (required) – 4 cr	
	SPCH 1720 Interpersonal Communications (required) – 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		3
Goal 6: Humanities and Fine Arts		3
General Education Requirements		16
Total Program Credits		72



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

Cosmetology Diploma

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 Requirements

Course	Cr	
CHSN 1410	Preclinic Introduction	4
CHSN 1420	Body Systems and Diseases	4
CHSN 1405	Preclinic Hair Care 1	3
CHSN 1406	Preclinic Hair Care 2	3
CHSN 1407	Preclinic Nail Care	3
CHSN 1409	Preclinic Chemical Control	3
CHSN 1413	Preclinic Hair Color	3
CHSN 1418	Advanced Hair Care	4
CHSN 1445	Cosmetic Chemistry & Makeup Applications	4
CHSN 1450	Skin Analysis & Massage	4
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		53
Required Technical Electives		3
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 Requirements		3
	SPCH 1720 Interpersonal Communications (recommended)	
Total Program Credits		59

Nail Care Technician Certificate

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.

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.

Program Requirements

Course	Cr	
CHSN 1410	Preclinic Introduction	4
CHSN 1420	Body Systems & Diseases	4
CHSN 1407	Preclinic Nail Care	3
CHSN 1452	Salon Operations 2 for Cosmetology/Nail Technician Majors	2
CHSN 1461	Clinic 1 for Nail Technicians	3

Select from the following electives as needed:

CHSN 1451	Salon Operations 1 for Cosmetology/Nail Technician Majors	1
CHSN 1453	Salon Operations 3 for Cosmetology/Nail Technician Majors	3

Total Program Credits 16

Culinary Arts

Culinary Arts AAS Degree	68 Credits
Culinary Arts Diploma	55 Credits
Baking and Decorating Certificate	9 Credits
Restaurant Management Certificate	13 Credits
Short Order Cooking Certificate	25 Credits
Wine Professional Certificate	9 Credits
Wine and Artisan Foods Certificate	17 Credits

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 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 4-year degree granting institutions to pursue advanced degrees in the culinary arts field.

These programs are accredited by the American Culinary Federation Education Foundation Accrediting Commission (ACFEF).



Culinary Arts AAS Degree

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 may be eligible for Minnesota Food Manager Certification.
7. Graduates will be eligible for certification by ACF as a "Certified Culinarian."

Program Requirements

Course		Cr
CULA 1400	Culinary Basics 1	3
CULA 1420	Culinary Basics 2	4
CULA 1440	Breakfast	1
CULA 1450	Meat Fabrication	2
CULA 1460	Basic Menu Production	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 1530	Commercial Range Production	2
CULA 1535	Catering	1
CULA 1540	Food Service Supervisory Management	2
CULA 1550	Grill/Short Order Cooking	2
CULA 1560	Food/Beverage/Labor Cost Control	3
CULA 1570	Basic Cake Decorating	2
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 & Pairing	2
CULA 2440	Ice Carving	1
CULA 2450	Advanced Cake & Pastry	2
CULA 2460	Classical Buffet	3
	Subtotal	52

General Education/MnTC Requirements Cr

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

Goal 1: Communication	7
ENGL 1711 Composition 1 (required) – 4 cr	
SPCH 1720 Interpersonal Communication – 3 cr	
Must be completed prior to starting 3rd Semester.	
Goal 3 or Goal 4	3
Goal 3: Natural Sciences OR	
Goal 4: Mathematical/Logical Reasoning	
Goal 5: History, Social Science and Behavioral Sciences	3
Goal 6: Humanities and Fine Arts	3
General Education Requirements	16

Total Program Credits 68

Culinary Arts Diploma

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 Requirements

Course	Cr	
CULA 1400	Culinary Basics 1	3
CULA 1420	Culinary Basics 2	4
CULA 1440	Breakfast	1
CULA 1450	Meat Fabrication	2
CULA 1460	Basic Menu Production	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 1530	Commercial Range Production	2
CULA 1535	Catering	1
CULA 1540	Food Service Supervisory Management	2
CULA 1550	Grill/Short Order Cooking	2
CULA 1560	Food/Beverage/Labor Cost Control	3
CULA 1570	Basic Cake Decorating	2
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 & Pairing	2
CULA 2440	Ice Carving	1
CULA 2450	Advanced Cake & Pastry	2
CULA 2460	Classical Buffet	3
	Subtotal	52
	General Education Requirements	3
SPCH 1720	Interpersonal Communication OR SPAN 1790 Spanish for the Workplace Must be completed prior to starting third semester.	
	Total Program Credits	55

Baking and Decorating Certificate

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 Requirements

Course	Cr	
CULA 1400	Culinary Basics 1	3
CULA 1470	Food Service Sanitation	2
CULA 1490	Food Service Math	2
CULA 1570	Basic Cake Decorating	2

Total Program Credits 9

Restaurant Management Certificate

Program Outcomes

1. Graduates will have knowledge of the hotel, travel and tourism industry.
2. Graduates will demonstrate knowledge and skills in restaurant operations.

Also see Hospitality Management under Business Programs

Program Requirements

Course	Cr	
HSPM 1410	Introduction to Hospitality Management	3
BUSN 2450	Management Fundamentals	3
CULA 1540	Food Service Supervisory Management	2
CULA 1560	Food/Beverage/Labor Cost Control	3
CULA 1470	Food Service Sanitation	2

Total Program Credits 13

Short Order Cooking Certificate

Program Outcomes (Short Order Cooking)

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.
4. Graduates will demonstrate knowledge in the preparation of grilled, griddled and fried fare.

Program Requirements

Course	Cr
CULA 1400 Culinary Basics 1	3
CULA 1420 Culinary Basics 2	4
CULA 1440 Breakfast	1
CULA 1450 Meat Fabrication	2
CULA 1460 Basic Menu Production	2
CULA 1470 Food Service Sanitation	2
CULA 1480 Nutrition	2
CULA 1490 Food Service Math	2
CULA 1520 Commercial Pantry Production	2
CULA 1550 Grill/Short Order Cooking	2
Subtotal	22
General Education Requirements	3
SPCH 1720 Interpersonal Communication	
Total Program Credits	25

Wine Professional Certificate

Must be 21 years of age. All credits must be completed in one semester.

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 millennial 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 Requirements

Course	Cr
CULA 1600 Professional Introduction to Wine	2
CULA 1610 Flavor Dynamics of Wine	2
CULA 1620 Professional Wine Service	1
CULA 1630 Strategies for Pairing Wine with Food	2
CULA 1640 Wine Marketing	2
Total Program Credits	9

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.

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.
5. Graduates will have the knowledge and skills of artisan foods preparation and pairing with wines.

Program Requirements

Course	Cr
CULA 1600 Professional Introduction to Wine	2
CULA 1610 Flavor Dynamics of Wine	2
CULA 1620 Professional Wine Service	1
CULA 1630 Strategies for Pairing Wine with Food	2
CULA 1640 Wine Marketing	2
CULA 3630 Artisan Baking	3
CULA 3635 Artisan Cheese	3
CULA 3641 Charcuterie	2
Total Program Credits	17

Sign Language Interpreter/Transliterater

Sign Language Interpreter/Transliterater
AAS Degree 72 Credits

Sign Language Interpreter/Transliterater AAS Degree

Program Overview

This program prepares individuals to work as interpreters/transliteraters 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, strong English and American Sign Language skills 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 and responsibilities, NAD-RID Code of Professional Conduct, history of deaf people and their culture, and the historical evolution 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 out-of-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 dramatically 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 obtain a Provisional Certificate which allows them to become a practitioner for a maximum of two years or until they obtain national certification.

Program-Specific Admission Process

The Sign Language Interpreter/Transliterater program has a program-specific admission process. Please view Admission Requirements on the Sign Language Interpreter/Transliterater program web page on the College Web site at www.saintpaul.edu.

Admission requirements include completing the following course work before full acceptance into the Sign Language Interpreter/Transliterater AAS program:

- American Sign Language 1 with a “C” or better
- American Sign Language 2 with a “C” or better
- American Sign Language 3 with GPA of 3.0 in ASL 3 & ASL 4
- American Sign Language 4 with 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

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 (ASL 4) or by taking ASL 5 during the summer term prior to beginning the Sign Language Interpreter/Transliterater AAS Program.

Credit by Examination/Test-Out. Note: 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.

It is necessary for students in the Sign Language Interpreter/ Transliterater Program to be able to process auditory and visual information.

Program Outcomes

1. 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 exam.
2. Graduates will have 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 needed to function as cross-cultural mediators in order to transmit and transfer culturally-based linguistic and nonlinguistic information.
5. Graduates will demonstrate the necessary employment knowledge, skills 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 Requirements

Prerequisite Courses

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 Required General Education Courses Cr

In addition to completing the prerequisites above, the following two General Education courses must be completed with a "C" or better grade prior to submitting your Program Major Application called the Application to Sign Language Interpreter/Transliterators AAS Degree Major form.

ENGL 1711	English Composition 1 (or comparable course) with a grade of "C" or better (Fulfills Gen. Ed. Requirement – Goal 1)	4
PSYC 1720	Psychology throughout the Lifespan preferred; PSYC 1710 General Psychology accepted with a grade of "C" or better (Fulfills Gen. Ed. Requirement – Goal 5)	3
Pre-Core General Education Requirements		7

Core Courses Cr

ASLS 1420	ASL Linguistics	4
ASLS 1430	Classifiers	3
ASLS 1435	Deaf Studies/Culture	3
INTP 1440	Orientation to Interpreting	3
INTP 1442	English Grammar for Sign Language Interpreters	2
INTP 1511	Interpreting Process	3
INTP 1512	Consecutive Interpreting 1	4
INTP 1513	Consecutive Interpreting 2	2
INTP 2411	Sign to Voice Interpreting 1	4
INTP 2412	Sign to Voice Interpreting 2	2
INTP 2421	Voice to Sign Interpreting 1	4
INTP 2422	Voice to Sign Interpreting 2	2
INTP 2431	Transliterating 1	4
INTP 2432	Transliterating 2	2
INTP 2510	Educational Interpreting	2
INTP 2550	Community Resources Seminar	1
INTP 2585	Internship Seminar	1
INTP 2591	Interpreter Internship	6
Technical Electives:		4

Select 2 credits from the following electives:

ASLS 1415	American Sign Language 5	3
ASLS 1443	ASL Fingerspelling and Numbers	3
ASLS 1446	ASL Non-Manual Markers	2
ASLS 1448	American Sign Language Semantics	2
INTP 1465	Special Topics (Interpreting)	1-5

Select 2 additional credits from the following electives:

INTP 2410	Video Relay/Video Remote Interpreting	2
INTP 2450	Deaf/Blind Interpreting	2

Core Credits 56

Remaining General Education/MnTC Requirements Cr

Must complete at least 9 remaining credits from the Minnesota Transfer Curriculum (MnTC)

Goal 1: Communication	3
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 6: Humanities and Fine Arts	3
Remaining General Education Requirements	9

Total Program Credits 72

Optional Course for Interpreter/Transliterators Program (Most courses require prerequisites)

ASLS 1469	Deaf Heritage of Minnesota (2 cr)
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Science, Technology, Engineering, Math & Liberal Arts

STEM: Science, Technology, Engineering & Math

Science

Biochemistry	98
Biology	98
Chemical Technology AS Degree	98
Chemical Technology Certificate	99
Chemistry	99
Natural Sciences	99
Physics	99

Engineering

Biomedical Engineering Technology AS Degree	100
Pre-Engineering AS Degree	100

Mathematics

Mathematics	101
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Computer Science

Computer Network Engineering AAS Degree	102
Network Administration Certificate	102
Computer Programming AAS Degree	103
Java Programming Certificate	104
Web Development Certificate	104
Mobile Development Certificate	104
Computer Gaming and Metaverse Development Certificate	104
Computer Science AS Degree	105
Management Information Systems AS Degree	106

For additional computer programs, see Computer Graphics and Visualization Programs, pages 66-69.

Liberal Arts

Associate in Arts

Associate in Arts Degree	107
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Communications

English	108
English for Speakers of Other Languages (ESOL)	109
Reading	109
Speech	109

Fine Arts/Humanities

Art	109
Drama & Theatre	110
Humanities	110
Music	110
Philosophy	110

Global Languages

American Sign Language Studies Certificate	111
<i>Also available: Sign Language Interpreter/Transliterators AAS Degree, page 95</i>	
Chinese	112
Spanish	112

Social Science

Anthropology	112
Economics	112
Geography	113
History	113
Political Science	113
Psychology	113
Sociology	114
Women's and Gender Studies	114

STEM: Science, Technology, Engineering & Math

Science

Biochemistry

Biochemistry is the study of the structure, composition, and chemical reactions of substances in living systems.

Biochemistry became a separate discipline when biology was combined with organic, inorganic, or physical chemistry and studies such topics as how living things obtain energy from food, the chemical basis of heredity, and what fundamental changes occur in disease. Biochemistry includes the sciences of molecular biology; immunochemistry; neurochemistry; and bioinorganic, bioorganic, and biophysical chemistry. Biochemistry 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. Often 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 and Regulations	4
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 pre-professional transfer programs.

Biology faculty are committed to excellence in teaching and scholarship providing a variety of lab/field experiences and online applications.

Course		Cr
BIOL 1471*	Medical Terminology	2
BIOL 1720*	Environmental Science: Current Issues	3
BIOL 1725*	Environmental Science	4
BIOL 1730*	Human Body Systems	3
BIOL 1735	Exploring 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 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

* Traditional, blended/hybrid and online sections available.

Chemical Technology

Chemical Technology AS Degree	60 Credits
Chemical Technology Certificate	26 Credits

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.

Program Requirements

Course		Cr
BIOC 1760	Chemical & Biological Instrumentation	4
CHEM 1711	Principles of Chemistry 1	4
CHEM 1712	Principles of Chemistry 2	4
CHEM 2711	Organic Chemistry 1	4
CHEM 2712	Organic Chemistry 2	4
PHYS 2700	General Physics 1 (with Calculus)	5
PHYS 2710	General Physics 2 (with Calculus)	5
Subtotal		30

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course 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 4: Mathematical/Logical Reasoning	8
MATH 2749 Calculus 1 (required) – 4 cr	
MATH 2750 Calculus 2 (required) – 4 cr	
Goal 5: History, Social Sciences and Behavioral Sciences	3
Goal 6: Humanities and Fine Arts	3
Goals 1–10 of the Minnesota Transfer Curriculum	9
Select a minimum of 9 additional credits	
Students must select courses from at least six (6) Goal Areas of the Minnesota Transfer Curriculum.	
General Education Requirements	30

Total Program Credits 60

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

Students will prepare for employment in a number of settings including Agriculture and Food Science, Forensics, Pharmaceutical, Industrial and Environmental Laboratories.

Program Requirements

Course		Cr
BIOC 1760	Chemical & Biological Instrumentation	4
BIOC 1761	Chemical & Biological Ethics and Regulations	4
CHEM 1711	Principles of Chemistry 1	4
CHEM 1712	Principles of Chemistry 2	4
CHEM 2711	Organic Chemistry 1	4
CHEM 2712	Organic Chemistry 2	4
CHEM 2790	Chemical Technology Laboratory Internship/Research Project	1-4
ENGR 1706	Principles of Engineering	2
Total Program Credits		27-30

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 graduation requirements.

Course		Cr
CHEM 1700*	Chemistry Concepts	4
CHEM 1711*	Principles of Chemistry 1	4
CHEM 1712	Principles of Chemistry 2	4
CHEM 2711	Organic Chemistry 1	4
CHEM 2712	Organic Chemistry 2	4
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

* Traditional, blended/hybrid and online sections available.

Natural Sciences

The Natural Sciences department offers courses across the curriculum in the areas of earth science, geology, oceanography, meteorology, natural disasters, descriptive astronomy, introduction to energy and the environment, contemporary issues in science and Minnesota Geology. Natural Science courses fulfill Goals 3, 9 & 10 of the Minnesota Transfer Curriculum, as well as 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 1760	Descriptive Astronomy	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	3
NSCI 2770	Natural Sciences Internship	1-4

* Traditional, blended/hybrid and online sections available.

Physics

The 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 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

Engineering, Mathematics, & Computer Science

Engineering

Biomedical Engineering Technology AS Degree . . . 60 Credits
Pre-Engineering AS Degree 60 Credits

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 components of the program. The AS Degree is designed or transfer to a four-year degree in Biomedical Engineering Technology or related fields. It can also provide preparation for employment as a biomedical technician.

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 just to name a few. In addition, articulation agreements exist with 4-year degree granting institutions to pursue Bachelor's degrees in the Biomedical Engineering Technology area.

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.
3. 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 Requirements

Course		Cr
BIOC 1760	Chemical & Biological Instrumentation	4
BIOC 1761	Chemical & Biological Ethics and Regulations	4
BIOL 1471	Medical Terminology	2
BIOL 1730	Human Body Systems	3
CHEM 1711	Principles of Chemistry 1	4
CHEM 1712	Principles of Chemistry 2	4
ENGR 1706	Principles of Engineering	2
ENGR 1708	Digital Electronics	2
ENGR 1712	Computer Integrated Manufacturing	2
ENGR 2700	Introduction to Problem Solving & Engineering Design	2
	Subtotal	29

General Education/MnTC Requirements

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

Goal 1: Communication	7
ENGL 1711 Composition 1 (required) – 4 cr	
SPCH 1710 Public Speaking (Goal 1 only) – 3 cr	
Goal 3: Natural Sciences	10
BIOL 1740 General Biology 1 – 5 cr	
BIOL 2760 Cell & Molecular Biology – 5 cr	
Goal 4: Mathematical/Logical Reasoning	8
MATH 2749 Calculus 1 – 4 cr	
MATH 2750 Calculus 2 – 4 cr	
Goal 5: History, Social Sciences and Behavioral Sciences	3
Goal 6: Humanities and Fine Arts	3
General Education Requirements	31

Total Program Credits 60

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

The demand for biotechnology engineers is expected to grow faster than the average for all occupations through 2018. Engineering includes careers with branches in civil, agriculture, chemical, and aerospace sciences just to name a few. Saint Paul College has articulation agreements that exist with 4-year degree granting institutions to pursue Bachelor's degrees in many of these Engineering areas.

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.

3. 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.
5. 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.

Program Requirements

Course		Cr
CHEM 1712	Principles of Chemistry 2	4
ENGR 1706	Principles of Engineering	2
ENGR 1714	Engineering CAD (ProE)	2
ENGR 1716	Circuit Analysis	3
ENGR 2705	Statics	3
ENGR 2710	Dynamics	3
MATH 2750	Calculus 2	4
MATH 2753	Calculus 3	4
MATH 2760	Ordinary Differential Equations	4
	Subtotal	29

General Education/MnTC Requirements

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

	Cr
Goal 1: Communication	7
ENGL 1711 Composition 1 (required) – 4 cr	
SPCH 1710 Public Speaking – 3 cr	
Goal 3 or Goal 4 select 18 credits from Goal 3 or 4	18
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 Behavioral Sciences	3
ECON 1720 Macroeconomics OR	
ECON 1730 Microeconomics (recommended)	
Goal 6: Humanities and Fine Arts	3
ARTS 1724 The Design of Everyday Life (recommended)	
General Education Requirements	31
Total Program Credits	60

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, Liberal Arts Math, College Algebra, Pre-Calculus, Calculus 1, 2, and 3, 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 2749	Calculus 1	4
MATH 2750	Calculus 2	4
MATH 2753	Calculus 3	4
MATH 2760	Ordinary Differential Equations	4

* Traditional, blended/hybrid and online sections available.

** Does not meet MnTC Distribution Requirements

Computer Science

Computer Network Engineering AAS Degree 60 Credits
 Network Administration Certificate 24 Credits

Computer Programming AAS Degree 60 Credits
 Java Programming Certificate 24 Credits
 Web Development Certificate 24 Credits
 Mobile Development Certificate 24 Credits
 Computer Gaming and Metaverse
 Development Certificate 24 Credits

Computer Science AS Degree 60 Credits

Management Information Systems AS Degree . . . 60 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, jobs in networking have become the fastest growing 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 in all types of installations are found throughout the country with opportunities for excellent earnings and rapid advancement. Additional jobs include the following: Network Help Desk Support, LAN Specialist, Datacommunications Specialist, Telecommunications Specialist, PC Network Administrator, Information Specialist, Certified Network Engineer, LAN Manager, WAN 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 Requirements

Course	Cr
CSCI 1410 Computer Science & Information Systems	4
CSCI 1423 Computer Networking 1 – Client	4
CSCI 1440 Networking Fundamentals	4
CSCI 1521 Structures of Computer Programming 1	4
CSCI 2420 Computer Security	4
CSCI 2451 Computer Networking 2 – Server	4
CSCI 2453 Computer Virtualization	4
CSCI 2461 Computer Networking 3 – Linux/Unix	4
CSCI 2465 Computer Networking 4 – Infrastructure	4
CSCI 2475 A+ Hardware/Operating System Prep	4
CSCI 2570 Machine Architecture and Organization	4
Subtotal	44

General Education/MnTC Requirements

	Cr
Refer to the Minnesota Transfer Curriculum Course 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	3
Goal 6: Humanities and Fine Arts	3
General Education Requirements	16

Total Program Credits 60

Network Administration Certificate

Program Requirements

Course	Cr
CSCI 1410 Computer Science & Information Systems	4
CSCI 1423 Computer Networking 1 – Client	4
CSCI 1440 Networking Fundamentals	4
CSCI 2451 Computer Networking 2 – Server	4
CSCI 2461 Computer Networking 3 – Linux/Unix	4
CSCI 2465 Computer Networking 4 – Infrastructure	4
Total Program Credits	24

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 earnings 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.
4. 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.

Program Requirements

Course		Cr
CSCI 1410	Computer Science & Information Systems	4
CSCI 1423	Computer Networking – Client	4
CSCI 1450	Web Fundamentals/HTML	4
CSCI 1521	Structures of Computer Programming 1	4
CSCI 1522	Structures of Computer Programming 2	4
CSCI 2570	Machine Architecture and Organization	4
Select one of the following six Technical Electives		4
CSCI 1541	Java Programming 1	4
CSCI 1531	Objective-C Programming	4
CSCI 1550	Database Management Fundamentals	4
CSCI 2440	Client Side Programming 1	4
CSCI 2442	Server Side Programming	4
CSCI 2560	Introduction to Computer Games	4
Subtotal		28
Complete one of the four Emphases listed below		16
Java Program Emphasis		
CSCI 1541	Java Programming 1	4
CSCI 1542	Java Programming 2	4
CSCI 1550	Database Management Fundamentals	4
CSCI 2466	J2EE-JSP and Servlets	4
Total Emphasis Credits		16
Web Development Emphasis		
CSCI 2440	Client Side Programming 1	4
CSCI 2442	Server Side Programming	4
Select 2 of the following courses		8
CSCI 2466	J2EE-JSP and Servlets	4
CSCI 2621	Ruby on Rails	4
CSCI 2622	Client Side Programming 2	4
Total Emphasis Credits		16
Mobile Development Emphasis		
CSCI 1531	Objective-C Programming	4
CSCI 1541	Java Programming 1	4
CSCI 2628	Programming iOS Devices	4
CSCI 2629	Programming Android Devices	4
Total Emphasis Credits		16
Computer Gaming and Metaverse Development Emphasis		
CSCI 1541	Java Programming 1	4
CSCI 2560	Introduction to Computer Games	4
CSCI 2630	Metaverse Application Development	4
CSCI 2632	Metaverse Graphics Programming	4
Total Emphasis Credits		16
General Education/MnTC Requirements		Cr
Refer to the Minnesota Transfer Curriculum Course 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		3
Goal 6: Humanities and Fine Arts		3
General Education Requirements		16
Total Program Credits		60

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.

Program Requirements

Course		Cr
CSCI 1410	Computer Science & Information Systems	4
CSCI 1450	Web Fundamentals/HTML	4
CSCI 1541	Java Programming 1	4
CSCI 1542	Java Programming 2	4
CSCI 1550	Database Management Fundamentals	4
CSCI 2466	J2EE-JSP and Servlets	4
Total Program Credits		24

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.

Program Requirements

Course		Cr
CSCI 1410	Computer Science & Information Systems	4
CSCI 1450	Web Fundamentals/HTML	4
CSCI 2440	Client Side Programming 1	4
CSCI 2442	Server Side Programming	4
Subtotal		16
Select two of the following courses:		8
CSCI 2466	J2EE-JSP and Servlets	4
CSCI 2621	Ruby on Rails	4
CSCI 2622	Client Side Programming 2	4
Total Program Credits		24

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.

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.
3. Students will be knowledgeable in application deployment strategies and technologies for both iDevice and Android platforms.
4. Student will have a general knowledge of the business model surrounding mobile application development

Program Requirements

Course		Cr
CSCI 1410	Computer Science & Information Systems	4
CSCI 1450	Web Fundamentals/HTML	4
CSCI 1531	Objective-C Programming	4
CSCI 1541	Java Programming 1	4
CSCI 2628	Programming iOS Devices	4
CSCI 2629	Programming Android Devices	4
Total Program Credits		24

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.

Program Outcomes

1. Students will understand the software development lifecycle pertaining to the conceptualization, design, development and deployment of both single and multiplayer computer games
2. 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 client-server programming model used in both single and multiplayer games and the effect of software design decisions on the performance characteristics of the each type of game based on this model.
4. 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
5. Students will understand the role of “gamification” in mainstream IT, its current status and longer term rates of adoption.

Program Requirements

Course		Cr
CSCI 1410	Computer Science & Information Systems	4
CSCI 1450	Web Fundamentals/HTML	4
CSCI 1541	Java Programming 1	4
CSCI 2560	Introduction to Computer Games	4
CSCI 2630	Metaverse Application Development	4
CSCI 2632	Metaverse Graphics Programming	4
Total Program Credits		24

Computer Science AS Degree

Program Overview

The Associate in Science Degree in Computer Science is designed to provide students with opportunities for transfer to four-year institutions with whom Saint Paul College has articulation agreements. The College has developed articulation agreements with four-year institutions to assist students with transfer goals. See a Transfer Specialist for further information.

Students planning a career in this area should have above average mathematical 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, 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

1. 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.

Program Requirements

Course		Cr
CSCI 1410	Computer Science & Information Systems	4
CSCI 1450	Web Fundamentals/HTML	4
CSCI 1521	Structures of Computer Programming 1	4
CSCI 1522	Structures of Computer Programming 2	4
CSCI 1541	Java Programming 1	4
CSCI 1542	Java Programming 2	4
CSCI 2570	Machine Architecture & Organization	4
Subtotal		28

General Education/MnTC Requirements

	Cr
Refer to the Minnesota Transfer Curriculum Course 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: Natural Sciences	4-5
PHYS 1720 Principles of Physics 1 – 4 cr OR	
PHYS 2700 General Physics 1 – 5 cr	
Goal 4: Mathematical/Logical Reasoning (Select two)	7-8
MATH 1730 College Algebra – 3 cr	
MATH 1760 Pre-Calculus – 4 cr	
MATH 2749 Calculus 1 – 4 cr	
MATH 2750 Calculus 2 – 4 cr	
Goal 5: History, Social Science and Behavioral Sciences	4
Goal 6: Humanities and Fine Arts	3
Goals 1-10 of the Minnesota Transfer Curriculum	5-7
Select a minimum of 5-7 additional credits	
Students must select courses from at least six (6) Goal Areas of the Minnesota Transfer Curriculum.	
General Education Requirements	32
Total Program Credits	60

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 with whom Saint Paul College has articulation agreements. 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 mathematical reasoning and communication skills. Students should exhibit qualities of patience, perseverance and preciseness and 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 business transactions, 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

1. 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.
3. Graduates will be able to utilize accounting and business systems information to develop recommendations for operating cost reduction and improved use of capital investment.
4. 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.

Program Requirements

Course		Cr
ACCT 1411	Principles of Accounting 1	4
BUSN 1440	Marketing Principles	3
BUSN 2450	Management Fundamentals	3
CSCI 1410	Computer Science & Information Systems	4
CSCI 1450	Web Fundamentals/HTML	4
CSCI 1521	Structures of Computer Programming 1	4
CSCI 1550	Database Management Fundamentals	4
CSCI 2410	Management Information Systems	3
Subtotal		29

General Education/MnTC Requirements

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area		Cr
Goal 1: Communication		7
	ENGL 1711 Composition 1 (required) – 4 cr. SPCH XXXX (required) (Goal 1 only) – 3 cr	
Goal 4: Mathematical/Logical Reasoning		7-9
	MATH 1740 Intro to Statistics (required) – 4 cr Required: MATH 1730 College Algebra – 3 cr OR MATH 2749 Calculus 1 – 4 cr	
Goal 5: History, Social Science and Behavioral Sciences		6
	ECON 1720 Macroeconomics (required) – 3 cr ECON 1730 Microeconomics (required) – 3 cr	
Goals 1-10 of the Minnesota Transfer Curriculum		9-11
	Select a minimum of 9-11 additional credits Students must select courses from at least six (6) Goal Areas of the Minnesota Transfer Curriculum.	
General Education Requirements		31
Total Program Credits		60

Liberal Arts

Associate in Arts

Associate in Arts (AA) Degree 60 Credits

Associate in Arts (AA) Degree

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

Program Requirements

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.

Course	Cr
Minnesota Transfer Curriculum (MnTC) Goals 1-10	40
The minimum MnTC distribution requirements for the AA degree are listed below. Refer to the MnTC course list on page 36 for full listing.	
Goal 1: Communication ENGL 1711 Composition 1 (required) 4 cr ENGL 1712 Composition 2 (required) 2 cr SPCH XXXX One eligible course (required) 3 cr	9
Goal 2: Critical Thinking Fulfilled when 10 goal areas (40 credits) are completed	
Goal 3: Natural Sciences Minimum of two courses from two different disciplines, one of which must be a lab course.	7
Goal 4: Mathematical/Logical Reasoning Minimum of one course. Courses must be numbered between 1700-1799 or 2700-2799	3
Goal 5: History and the Social and Behavioral Sciences Minimum of three courses from three different disciplines.	9
Goal 6: Humanities and Fine Arts Minimum of three courses from three different disciplines.	9
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
Additional MnTC and/or pre-major electives	20
Electives, Liberal Arts and Sciences, Pre-Major Courses generally numbered 1700 and above from any department may be used to fulfill these electives. These electives may be freely chosen or selectively used for transfer requirements. The Pre-Major Tracks in the AA degree or individual educational plans developed with a transfer specialist are used to focus these electives to meet transfer coursework for specific majors. Consult with a transfer specialist about course options for the pre-major electives.	
Total Program Credits	60

Preparation for a Bachelor's Degree

An Associate in Arts degree allows students to complete both general education requirements and pre-major requirements for a wide range of majors and programs at four-year colleges and universities. Students may choose to follow one of the Pre-Major Tracks within the AA degree or develop an individual educational plan to focus their course selection on their transfer plans. Students are to consult with a Saint Paul College Transfer Specialist to assure that courses taken at Saint Paul College fulfill the requirements of a particular field of study.

Listed below are examples of the bachelor degree or pre-professional programs a student may begin at Saint Paul College.

Accounting	Interdisciplinary Studies
Human Resources Management	Industrial Education
Agriculture	Information Networking
Anthropology	Kinesiology
Architecture	Liberal Arts
Art	Mass Communications
Art History	Mathematics
Biology	Medical Terminology
Biomedical Engineering Technology	Medicine
Business Management and Administration	Nursing
Chemistry	Paralegal
Communications & Speech	Pharmacy
Computer and Information Technology	Philosophy
Computer Science	Physical Therapy
Construction Management	Physics
Criminal Justice	Political Science
Economics	Pre-Engineering
Elementary Education	Psychology
English	Secondary Education
Geography	Social Work
Geology	Speech Communication
History	Statistics
Humanities	Theatre Arts
Hospitality Management	Veterinary Medicine
Individualized Professional Study	World Language
	Zoology

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

* Traditional, blended/hybrid and online sections available.

** Does not meet MnTC Distribution Requirements

English for Speakers of Other Languages (ESOL)

Overview

The English for Speakers of Other Languages (ESOL) program and courses are designed to help non-native speakers of English 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 program may begin one of the trade programs, enroll in general education courses, or require further developmental coursework in English and/or Reading.

Students interested in enrolling in the ESOL program must take the ESL ACCUPLACER™ test. This test assesses a student's reading, listening and grammar ability.

Outcomes

1. Enter a trade program, take general education courses or, if needed, take further developmental coursework.
2. Demonstrate an ability to understand written and spoken English.
3. Communicate effectively in written and spoken English.
4. Understand academic and cultural expectations for American colleges.
5. Apply critical thinking skills.

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
Electives		Cr
ESOL 0820	Pronunciation and Articulation	1
ESOL 0840	ESL for Working Adults	3

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

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		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 1750	Small Group Communication	3
SPCH 1770*	Family Communication	3
SPCH 1780*	Gender Communication	3

* Traditional, blended/hybrid and online sections available.

Fine Arts/Humanities

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 and humanities 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 for their area of concentration.

Art and art history classes fulfill requirements for the Minnesota Transfer Curriculum, as well as graduation requirements.

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 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	3
ARTS 2710	Advanced Studio Arts	3-4
ARTS 2754	Advanced Ceramics	3

* Traditional, blended/hybrid and online sections available.

Drama & 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 1720	Exploring the Theatre Arts	3
THTR 1730	Theater Stagecraft and Production	3
THTR 1740	Fundamentals of Playwriting: Playwriting 1	3
THTR 2725	Acting 2	3

* Traditional, blended/hybrid and online sections available.

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 1710	The Art of Being Human: An Introduction to the Humanities	4
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

Music

The College offers Music courses to fulfill the Minnesota Transfer Curriculum requirements and graduation requirements. The department will be expanding and adding new courses to the curriculum.

Course	Cr	
MUSC 1720	Fundamentals of Music	3
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

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

* Traditional, blended/hybrid and online sections available.

Global Languages

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/Transliterater 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/Transliterater Program
- Enhances American Sign Language fluency for potential or current teachers of Deaf and Hard-of-Hearing students
- Meets general education requirements at some state colleges and universities

Program Outcomes

1. Graduates will be prepared to meet the ASL prerequisites for the Sign Language Interpreter/Transliterater Program (see page 95).
2. 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.
3. Graduates will meet world language requirements at the high school and college/university level.
4. 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.

Program Requirements

Course	Cr
SPCH 1700, SPCH 1710, SPCH 1720, SPCH 1730, OR SPCH 1750	3
ASLS 1411 American Sign Language 1	3
ASLS 1412 American Sign Language 2	3
ASLS 1413 American Sign Language 3	3
ASLS 1414 American Sign Language 4	3
ASLS 1420 ASL Linguistics	4
ASLS 1430 Classifiers	3
ASLS 1435 Deaf Studies/Culture	3
ASLS 1443 ASL Fingerspelling and Numbers	3
Subtotal	28
Select 2 credits from following Technical Electives	2
ASLS 1415 American Sign Language 5	3
ASLS 1446 ASL Non-Manual Markers	2
ASLS 1448 American Sign Language Semantics	2
ASLS 1497 Special Topics in ASL 1	5
Total Program Credits	30
Optional Courses:	
ASLS 1469 Deaf Heritage of Minnesota	2
<i>Course is not offered annually.</i>	

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.

Chinese

Chinese courses are designed to develop proficiency in Chinese speaking, listening, reading, and writing; an appreciation for cultural diversity; and the application of conversational Chinese to work and life roles. Beginning and Intermediate-level courses are offered. 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.

Program Requirements

Course	Cr
CHIN 1710 Beginning Chinese 1	5
CHIN 1720 Beginning Chinese 2	5

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	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

* Traditional, blended/hybrid and online sections available.

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 1710* Introduction to Cultural Anthropology	4
ANTH 1720* Introduction to Physical Anthropology	4
ANTH 1730* Gender and Culture in Global Perspective	3
ANTH 1790 Special Topics in Anthropology	3

* Traditional, blended/hybrid and online sections available.

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 economist and political advisors is implemented and with what degrees of success. 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.

Course	Cr
ECON 1710 Introduction to the American Economy	3
ECON 1720 Macroeconomics	3
ECON 1730 Microeconomics	3

Geography

The College offers Geography courses to fulfill the Minnesota Transfer Curriculum requirements and graduation requirements. The department will be expanding and adding new courses to the curriculum. Currently the department offers courses in Physical Geography, Human Cultural Geography, Global Economic Geography, Minnesota Geography and World Geography.

Course		Cr
GEOG 1700*	Physical Geography	3
GEOG 1720*	Human/Cultural Geography	3
GEOG 1730	Global Economic Geography	3
GEOG 1740	World Geography	3
GEOG 1750*	Minnesota Geography	3

* Traditional, blended/hybrid and online sections available.

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, (please note, however, that students are not required to take these survey courses in chronological order).

Additional courses are offered in Minnesota history, immigration and the ethnic history of the United States, the history of women in the United States, and contemporary world history. The department also offers a Special Topics in History course. Students who plan on majoring 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	1-3
HIST 2790	Historical Methods	2

* Traditional, blended/hybrid and online sections available.

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. Here at Saint Paul College, 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.

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

* Traditional, blended/hybrid and online sections available.

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 1730	Introduction to Child Psychology	3
PSYC 1740*	Abnormal Psychology	4
PSYC 1750*	Introduction to Health Psychology	3
PSYC 1760	Social Psychology	4

* Traditional, blended/hybrid and online sections available.

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 1780*	Social Psychology	4
SOCI 1790*	Special Topics in Sociology	1-3
SOCI 2760*	Sociology Through Film and Music	3

* Traditional, blended/hybrid and online sections available.

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
Related courses across the disciplines:		
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

*Traditional, blended/hybrid and online sections available.

Transportation, Construction and Building Trades, and Technical Programs

Transportation Programs

Auto Body Repair

Auto Body Repair AAS Degree	116
Auto Body Repair Diploma	117

Automotive Service

Automotive Service Technician AAS Degree	117
Automotive Service Technician Diploma	118

Truck Technician

Truck Technician Diploma	118
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Construction & Building Trades

Cabinetmaking

Cabinetmaking Diploma	119
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Carpentry

Carpentry Diploma	120
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Electrical Technology

Electrical Technology AAS Degree	121
Electrical Technology Diploma	121

Pipefitting

Pipefitting Construction Certificate	122
Pipefitting Diploma	122
Pipefitting Apprenticeship Building Trades Diploma	122
Pipefitting Apprenticeship Service Diploma	123

Plumbing

Plumbing Diploma	123
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Sheet Metal

Sheet Metal AAS Degree	124
Sheet Metal Diploma	124

Welding Technology

Welding Technology AAS	125
Welding Technology Diploma	126
Welding Technology Certificate	126

Technical Programs

Manufacturing Technology

Manufacturing Technology AAS Degree	127
Machine Tool Diploma	127

360° Multi-Institution Integrated Technology

Machine Technologist Certificate	128
Production Technologies Certificate	128

Transportation Programs

Auto Body Repair

Auto Body Repair AAS Degree 62 Credits
 Auto Body Repair Diploma 49 Credits

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. Students must read well enough to follow written instructions and comprehend technical information. They should know basic arithmetic 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 an ability to withstand dust, paint fumes and noise.

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 journeyman for a period of at least three years. The usual four-year apprenticeship term is shortened by vocational school experience. There are opportunities for advancement to estimator, adjuster, service manager, parts manager, or shop owner.

Auto Body Repair AAS Degree

Program Outcomes

1. 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.

5. 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.

Program Requirements

Course		Cr
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 Repair Theory	2
ABDY 1450	Collision Repair, Estimating & Shop Management	2
ABDY 1510	Advanced Body & Frame Repair	3
ABDY 1520	Paint & Color Matching Techniques	4
ABDY 1530	Paint Finish & Detailing	4
ABDY 1540	Auto Body Specialization Finishes	4
ABDY 1550	General Auto Body Detailing	4
ABDY 1560	Alignment & Brakes for Auto Body	2
ABDY 1570	Air Conditioning & Auto Electric	3
ABDY 1581	Welding – Auto Body 1	2
ABDY 1582	Welding – Auto body 2	3
	Subtotal	46

General Education/MnTC Requirements

	Cr
Refer to the Minnesota Transfer Curriculum Course 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	3
Goal 6: Humanities and Fine Arts	3
General Education Requirements	16

Total Program Credits **62**

Auto Body Repair Diploma

Program Outcomes

1. 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.
5. 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.

Program Requirements

Course		Cr
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 Repair Theory	2
ABDY 1450	Collision Repair, Estimating & Shop Management	2
ABDY 1510	Advanced Body & Frame Repair	3
ABDY 1520	Paint & Color Matching Techniques	4
ABDY 1530	Paint Finish & Detailing	4
ABDY 1540	Auto Body Specialization Finishes	4
ABDY 1550	General Auto Body Detailing	4
ABDY 1560	Alignment & Brakes for Auto Body	2
ABDY 1570	Air Conditioning & Auto Electric	3
ABDY 1581	Welding – Auto Body 1	2
ABDY 1582	Welding – Auto body 2	3
	Subtotal	46
	General Education Requirements	3
	Refer to the Minnesota Transfer Curriculum Course List for specific course options.	

Total Program Credits **49**

Automotive Service

Automotive Service Technician AAS 72 Credits
 Automotive Service Technician Diploma 69 Credits

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 shop service sales person, new car dealership service manager, or shop owner.

Program Outcomes

1. 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.
4. Graduates will have acquired supervised hands-on experience working on customer vehicles.

5. Graduates will be prepared for employment as Automotive Service Technicians.
6. Graduates will have critical thinking skills.

Program Requirements

Course		Cr
AUTO 1410	Trade Knowledge	3
AUTO 1420	General Auto Service	3
AUTO 1430	Brakes	4
AUTO 1440	Alignment & Suspension	5
AUTO 1510	Clutch/Driveline Manual Transmission	3
AUTO 1522	Four Wheel Drive Differential	4
AUTO 1530	Basic Electrical & Battery	3
AUTO 1540	Basic Engine Management	3
AUTO 1550	Heating & Air Conditioning	4
AUTO 1570	Basic Auto Welding	2
AUTO 2410	Starting & Charging Systems	3
AUTO 2420	Electrical Accessories	3
AUTO 2430	Engine Theory & Repair	4
AUTO 2440	Engine Installation	2
AUTO 2450	Introduction to Auto Computers	2
AUTO 2510	Fuel Systems	5
AUTO 2520	Engine Drivability	3
	Subtotal	56

General Education/MnTC Requirements	Cr
Refer to the Minnesota Transfer Curriculum Course 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	3
Goal 6: Humanities and Fine Arts	3
General Education Requirements	16
Total Program Credits	72

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.

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.
4. Graduates will have business and management skills required of an automotive service technician.

Program Requirements

Course		Cr
AUTO 1410	Trade Knowledge	3
AUTO 1420	General Auto Service	3
AUTO 1430	Brakes	4
AUTO 1440	Alignment & Suspension	5
AUTO 1510	Clutch/Driveline Manual Transmission	3
AUTO 1522	Four Wheel Drive Differential	4
AUTO 1530	Basic Electrical & Battery	3
AUTO 1540	Basic Engine Management	3
AUTO 1550	Heating & Air Conditioning	4
AUTO 1570	Basic Auto Welding	2
AUTO 2410	Starting/Charging Systems	3
AUTO 2420	Electrical Accessories	3
AUTO 2430	Engine Theory & Repair	4
AUTO 2440	Engine Installation	2
AUTO 2450	Introduction to Auto Computers	2
AUTO 2510	Fuel Systems	5
AUTO 2520	Engine Drivability	3
AUTO 2530	Automatic Transmission Theory	2
AUTO 2542	Automatic Transmission Diagnosis & Repair	4
AUTO 2550	Specialized Lab 1	2
AUTO 2570	Advanced Auto Welding	2
	Subtotal	66
	General Education Requirements (MATH 1411 recommended)	3

Total Program Credits 69

Truck Technician

Truck Technician Diploma 67 Credits

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.

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.

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

1. Graduates will have the knowledge and skills to service and repair medium and heavy duty trucks and trailers.
2. 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.
4. Graduates will have mastered the general education program requirements for work and life roles.

Program Requirements

Course		Cr
TRKM 1400	Introduction and Safety	1
TRKM 1445	Truck Welding 1	2
TRKM 1455	Truck Welding 2	2
TRKM 1521	Electrical 1	5
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	6
TRKM 2425	Truck Cab Climate Control Systems	3
TRKM 2440	Gasoline Engines	6
TRKM 2511	Diesel Engines 1	6
TRKM 2512	Diesel Engines 2	6
TRKM 2540	Preventive Maintenance	3
	Subtotal	64
	General Education Requirements	3
	Refer to the Minnesota Transfer Curriculum Course List for specific course options.	

Total Program Credits **67**

Construction and Building Trades

Cabinetmaking

Cabinetmaking Diploma 35 Credits

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.

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.

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 businesses.

Program Outcomes

1. Graduates will have acquired supervised hands-on experience building framed and manufactured 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 in the safe operation of woodworking equipment.

Program Requirements

Course		Cr
CABT 1410	Print Reading and Design	3
CABT 1415	Wood Technology	3
CABT 1425	Machining 1	5
CABT 1426	Machining 2	3
CABT 1431	Framed Cabinetry	5
CABT 2410	Laminates and Countertops	4
CABT 2441	Frameless Cabinetry	5
CABT 2510	CAD/CAM/CNC	4
MATH 1411	Applied Mathematics	3

Total Program Credits **35**

Additional Course Strongly recommended

CABT 2550 AutoCad 1 for Cabinetmaking (3 cr)

Carpentry

Carpentry Diploma 42 Credits

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 journey person 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.
2. Graduates will be able to work with wood, plastics, concrete, metals, gypsum and various fiber composite products used by carpenters in the construction industry.
3. Graduates will have practiced procedures used by carpenters in framing layout, stair construction, wood and steel framing and installation of doors, windows and cabinets.
4. 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 Requirements

Course		Cr
CARP 1410	Project Estimating	3
CARP 1420	Construction Blueprint Reading	2
CARP 1430	Introduction to Carpentry and Hand-tools	3
CARP 1510	Intermediate Carpentry	5
CARP 1521	Building Technology	5
CARP 1522	Power Tool and Shop Procedures	5
CARP 2410	Advanced Carpentry	6
CARP 2421	Fieldwork and Carpentry Procedures	5
CARP 2422	Carpentry Concrete Technology and Installation	5
MATH 1411	Applied Mathematics	3
Total Program Credits		42

Electrical Technology

Electrical Technology AAS Degree 60 Credits
 Electrical Technology Diploma 67 Credits

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.

The Electrical Technology diploma and AAS degree requires high school graduation or equivalent. Students should have an interest and aptitude in applied higher 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 journey person's license, students are open to opportunities as master electricians, inspectors, contractors, estimators and repair persons.

Electrical Technology AAS Degree

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.

Program Requirements

Course		Cr
ELTN 1410	National Electrical Code 1 and Trade Calculations	4
ELTN 1420	Direct Current Circuit Analysis	4
ELTN 1430	Alternating Current Circuit Analysis	4
ELTN 1440	Single-Phase Motors and Generators	4
ELTN 1510	Three-Phase Systems Motors and Generators	4
ELTN 1520	Introduction to Electronics and Test Equipment	4
ELTN 1530	Intermediate Electronics and PLC's	4
ELTN 1540	Low Voltage Systems and Job Site Safety	4
ELTN 2410	Distribution Power and Specialty Transformers	4
ELTN 2420	Motor Controls	4
ELTN 2430	Residential Wiring and Blueprint Reading	4
Subtotal		44

General Education/MnTC Requirements

	Cr
Refer to the Minnesota Transfer Curriculum Course 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	3
Goal 6: Humanities and Fine Arts	3
General Education Requirements	16
Total Program Credits	60

Electrical Technology Diploma

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 Requirements

Course		Cr
ELTN 1410	National Electrical Code 1 and Trade Calculations	4
ELTN 1420	Direct Current Circuit Analysis	4
ELTN 1430	Alternating Current Circuit Analysis	4
ELTN 1440	Single-Phase Motors and Generators	4
ELTN 1510	Three-Phase Systems Motors and Generators	4
ELTN 1520	Introduction to Electronics and Test Equipment	4
ELTN 1530	Intermediate Electronics and PLC's	4
ELTN 1540	Low Voltage Systems and Job Site Safety	4
ELTN 2410	Distribution Power and Specialty Transformers	4
ELTN 2420	Motor Controls	4
ELTN 2430	Residential Wiring and Blueprint Reading	4
ELTN 2440	Heating and Cooling System Controls	4
ELTN 2510	Wiring Methods and Systems	4
ELTN 2520	Commercial Wiring Methods	4
ELTN 2530	Industrial Wiring Methods and Service Entrance	4
ELTN 2540	National Electrical Code 2	4
Subtotal		64
General Education Requirements		3
Refer to the Minnesota Transfer Curriculum Course List for specific course options.		
Total Program Credits		67

Pipefitting

Pipefitting Construction Certificate	20 Credits
Pipefitting Diploma	40 Credits
Pipefitting Apprenticeship Building Trades Diploma	40 Credits
Pipefitting Apprenticeship Service Diploma	40 Credits

Program Overview

The Pipefitting programs train pipefitters for construction and service operations such as refineries gasification plants, other commercial facilities.

Restricted Enrollment

The Pipefitting Apprenticeship Certificate, Diploma, Building Trades Diploma and Service Diploma are restricted enrollment joint programs offered through the St Paul Pipefitters Local 455 and Saint Paul College. Admission to the Pipefitters Apprenticeship program is required for enrollment in these programs. Contact Bill Lombard at 651.247.9920 for application information.

Pipefitting Construction Certificate

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 Requirements

Course	Cr
PIPE 1410 Pipe Science/Math	5
PIPE 1420 Pipe Blueprint Reading	3
PIPE 1430 Pipe Welding 1	5
PIPE 1441 Basic Heating 1	3
PIPE 1451 Pipe Shop 1	4
Total Program Credits	20

Pipefitting Diploma

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 Requirements

Course	Cr
PIPE 1410 Pipe Science/Math	5
PIPE 1420 Pipe Blueprint Reading	3
PIPE 1430 Pipe Welding 1	5
PIPE 1441 Basic Heating 1	3
PIPE 1442 Basic Heating 2	3
PIPE 1451 Pipe Shop 1	4
PIPE 1452 Pipe Shop 2	4
PIPE 1522 Basic Air Conditioning and Refrigeration	2
PIPE 1530 Pipe Welding 2	5
PIPE 1540 Electric Controls	3
PIPE 1550 Basic Gas	3
Total Program Credits	40

Pipefitting Apprenticeship Building Trades Diploma

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 Requirements

Course	Cr
PIPE 2614 Boiler Systems	2
PIPE 2622 Rigging, Industrial Safety and OSHA	2
PIPE 2625 Ammonia/Steam/Hot Water Systems	2
PIPE 2631 Industrial Pneumatics	2
PIPE 2632 Commercial Refrigeration	2
PIPE 2635 Apprenticeship Pipe Science	2
PIPE 2641 Supervisory Training/Public Relations	2
PIPE 2642 Piping Design	2
PIPE 2651 Refrigeration Code	1
PIPE 2652 Oil Code	1
PIPE 2653 Gas Code	1
PIPE 2654 Hot Water Code	1
PIPE 2655 Ammonia Code	2
PIPE 2656 High Pressure Steam Code	2
RWLD 2621 Apprenticeship Pipe Welding 1	2
RWLD 2622 Apprenticeship Pipe Welding 2	2
RWLD 2623 Apprenticeship Pipe Welding 3	2
RWLD 2624 Apprenticeship Pipe Welding 4	2
RWLD 2660 Apprenticeship Pipe Welding 1 – Advanced	2
RWLD 2661 Apprenticeship Pipe Welding 2 – Advanced	2
RWLD 2662 Apprenticeship Pipe Welding 3 – Advanced	2
RWLD 2663 Apprenticeship Pipe Welding 4 – Advanced	2
Total Program Requirements	40

Pipefitting Apprenticeship Service Diploma

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 Requirements

Course	Cr
PIPE 2611 Gas and Gas Controls	2
PIPE 2614 Boiler Systems	2
PIPE 2615 Pipe Layout and Installation	2
PIPE 2622 Rigging, Industrial Safety and OSHA	2
PIPE 2623 Apprenticeship Refrigeration & Air Conditioning	2
PIPE 2626 Basic Service Applications	2
PIPE 2627 Basic Electricity	2
PIPE 2628 Commercial Pneumatics	2
PIPE 2632 Commercial Refrigeration	2
PIPE 2636 Electrical Controls and Diagrams	2
PIPE 2638 Computer Controls	2
PIPE 2642 Piping Design	2
PIPE 2643 Test and Balance of Systems	2
PIPE 2644 Power Burners and Controls	2
PIPE 2645 Direct Digital Controls	2
PIPE 2651 Refrigeration Code	1
PIPE 2652 Oil Code	1
PIPE 2653 Gas Code	1
PIPE 2654 Hot Water Code	1
PIPE 2655 Ammonia Code	2
PIPE 2656 High Pressure Steam Code	2
PIPE 2657 Advanced Boiler Systems	2
Total Program Credits	40

Plumbing

Plumbing Diploma 44 Credits

Program Overview

The Plumbing program trains apprentices in commercial, residential and industrial plumbing.

Restricted Enrollment

The Plumbing Technology Diploma program is a restricted enrollment joint program offered through the Plumbers & Gasfitters Local 34 and Saint Paul College. Admission to the Plumbing Apprenticeship program is required for enrollment in this diploma. Contact Rick Gale at 651.846.1641 or 651.846.1389 for application information.

Program Outcomes

1. Graduates will demonstrate safe and proper use of tools used in the plumbing field.

2. 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.

Plumbing Diploma

Program Requirements

Course	Cr
PLMB 2610 PreApprentice Plumbing	2
PLMB 2612 Job Safety & Health	2
PLMB 2614 Applied Math for Plumbing	4
PLMB 2616 Plumbing Welding	4
PLMB 2618 Basic Drawing	4
PLMB 2621 Plumbing 1	4
PLMB 2622 Plumbing 2	4
PLMB 2624 Plumbing 4 Commercial & Res. Service	4
PLMB 2640 Advanced Plan Reading & Heavy Rigging	4
PLMB 2623 Plumbing 3 Gas Installations & Gas Controls OR	
PLMB 2650 Industrial Plumbing	4
PLMB 2631 Plumbing Code 1	2
PLMB 2632 Plumbing Code 2	2
PLMB 2633 Plumbing Code 3	2
PLMB 2634 Plumbing Code 4	2
Total Program Credits	44

Sheet Metal

Sheet Metal AAS Degree 60 Credits
 Sheet Metal Diploma 40 Credits

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.

Sheet Metal AAS Degree

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.
6. Graduates will have critical thinking skills.

Program Requirements

Course		Cr
SMET 1410	Sheet Metal Fitting Layout & 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
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
Subtotal		40

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	6
Goal 3: Natural Sciences OR	
Goal 4: Mathematical/Logical Reasoning	
Goal 5: History, Social Science and Behavioral Sciences	3
Goal 6: Humanities and Fine Arts	3
Select a minimum of 4 additional credits	
Goals 1 – 10 of the Minnesota Transfer Curriculum	4
Select a minimum of 4 additional credits	
General Education Requirements	20

Total Program Credits **60**

Sheet Metal Diploma

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 Requirements

Course		Cr
SMET 1410	Sheet Metal Fitting Layout & 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
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**

Welding Technology

Welding Technology AAS	72 Credits
Welding Technology Diploma	67 Credits
Welding Technology Certificate	32 Credits

Program Overview

Welding, brazing, cutting and fabrication operations require skilled workers who are well-trained in the use of oxyacetylene, arc, wirefeed, heliarc, flux core, submerged arc welding process, layout, CNC/NC plasma cutting, press break and robotics. Skilled welding fabricators are thoroughly familiar with breakdown and setup procedures, test standards and all 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, 7 out of 10 welding-related jobs were held by skilled welders. Skilled welders who are familiar with up-to-date techniques should have good job prospects.

Welders and fabricators work in manufacturing plants as production welders, maintenance welders, specialist welders, layout, press brake operators, operators, NC/CNC plasma cutting operators and robotic welding operators in structural and nonstructural settings. Welding/fabricating 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, technicians, supervisors or private shop owners.

Welding Technology AAS

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 OAW (oxyacetylene welding), OAC (oxyacetylene cutting), SMAW (shielded metal arc welding), GMAW (gas metal arc welding), GTAW (gas tungsten arc welding), PAW (plasma arc welding), PAC (plasma arc cutting), FCAW (flux core arc welding) and SAW (submerged arc welding).
3. Graduates will have acquired supervised hands-on experience in various welding processes.
4. Graduates will have the knowledge and skills in plasma cutting, turret punch, press brake and CNC/NC operations.
5. Graduates will have the knowledge and skills in setup and break-down procedures in the fabrication and welding industry.

6. Graduates will be prepared for employment in the welding industry and related fields.
7. Graduates will have successfully mastered the general education program requirements for work and life roles.
8. Graduates of Welding Technology Program will be critical thinkers.

Program Requirements

Course		Cr
WLDT 1410	Oxy-Acetylene Welding, Cutting & Brazing, Carbon Arc & Plasma	4
WLDT 1420	Intro to SMAW, Metallurgy & Welding Theory E6013 & E6010	4
WLDT 1430	Intro to Blueprint & Measuring Devices	4
WLDT 1440	Intro to Welder Qualification & SMAW E7018	4
WLDT 1510	GMAW, Short Arc	4
WLDT 1520	Intro to GTAW – Mild Steel & Stainless	4
WLDT 1530	GMAW Spray & Pulse	4
WLDT 1540	Blueprint Symbols, Weld Inspection & Welder Certification	4
WLDT 2430	Areas & Volumes	4
WLDT 2440	Grinding & Finishing	4
WLDT 2510	GTAW Aluminum	4
WLDT 2520	Radan Drafting	2
WLDT 2530	Layout and Fabrication Practices	2
WLDT 2540	Shop Hand & Power Equipment	4
WLDT 2550	CNC Shop Equipment & Robotics	4
	Subtotal	56
General Education/MnTC Requirements		Cr
Refer to the Minnesota Transfer Curriculum Course 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		3
Goal 6: Humanities and Fine Arts		3
	General Education Requirements	16
Total Program Credits		72

Welding Technology Diploma

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 OAW (oxyacetylene welding), OAC (oxyacetylene cutting), SMAW (shielded metal arc welding), GMAW (gas metal arc welding), GTAW (gas tungsten arc welding), PAW (plasma arc welding), PAC (plasma arc cutting), FCAW (flux core arc welding) and SAW (submerged arc welding).
3. Graduates will have acquired supervised hands-on experience in various welding processes.
4. Graduates will have the knowledge and skills in plasma cutting, turret punch, press brake and CNC/NC operations.
5. Graduates will have the knowledge and skills in setup and break-down procedures in the fabrication and welding industry.
6. Graduates will be prepared for employment in the welding industry and related fields.
7. Graduates will have successfully mastered the general education program requirements for work and life roles.
8. Graduates of Welding Technology Program will be critical thinkers.

Program Requirements

Course	Cr
WLDT 1410	Oxy-Acetylene Welding, Cutting & Brazing, Carbon Arc & Plasma 4
WLDT 1420	Intro to SMAW, Metallurgy & Welding Theory E6013 & E6010 4
WLDT 1430	Intro to Blueprint & Measuring Devices 4
WLDT 1440	Intro to Welder Qualification & SMAW E7018 4
WLDT 1510	GMAW, Short Arc 4
WLDT 1520	Intro to GTAW – Mild Steel & Stainless 4
WLDT 1530	GMAW Spray & Pulse 4
WLDT 1540	Blueprint Symbols, Weld Inspection & Welder Certification 4
WLDT 2410	GMAW Aluminum & Stainless Steel 4
WLDT 2420	GMAW Core Wires 4
WLDT 2430	Areas & Volumes 4
WLDT 2440	Grinding & Finishing 4
WLDT 2510	GTAW Aluminum 4
WLDT 2520	Radan Drafting 2
WLDT 2530	Layout and Fabrication Practices 2
WLDT 2540	Shop Hand & Power Equipment 4
WLDT 2550	CNC Shop Equipment & Robotics 4
	Subtotal 64
	General Education Requirements 3
	MATH 1411 Applied Mathematics (3 cr) <i>Refer to the Minnesota Transfer Curriculum Course List.</i>
	Total Program Credits 67

Welding Technology Certificate

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 OAW (oxyacetylene welding), OAC (oxyacetylene cutting), SMAW (shielded metal arc welding), GMAW (gas metal arc welding), GTAW (gas tungsten arc welding).
3. Graduates will have acquired supervised hands-on experience in using welding processes.
4. Graduates will be prepared for employment in the welding industry and related fields.

Program Requirements

Course	Cr
WLDT 1410	Oxy-Acetylene Welding, Cutting & Brazing, Carbon Arc & Plasma 4
WLDT 1420	Intro to SMAW, Metallurgy & Welding Theory E6013 & E6010 4
WLDT 1430	Intro to Blueprint & Measuring Devices 4
WLDT 1440	Intro to Welder Qualification & SMAW E7018 4
WLDT 1510	GMAW, Short Arc 4
WLDT 1520	Intro to GTAW – Mild Steel & Stainless 4
WLDT 1530	GMAW Spray & Pulse 4
WLDT 1540	Blueprint Symbols, Weld Inspection & Welder Certification 4
	Total Program Credits 32

Technical Programs

Manufacturing Technology

Manufacturing Technology AAS Degree	72 Credits
Machine Tool Diploma	64 Credits

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, and 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 machined metal parts. Manufacturing Technology and Machine Tool Technology 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.

Manufacturing Technology AAS Degree

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 Requirements

Course	Cr
CNCT 1410 Introduction to Manufacturing Processes	4
CNCT 1420 Engineering Drawings	4
CNCT 1430 Materials Processes 1	4
CNCT 1431 Materials Processes 2	4
CNCT 1710 Shop Calculations	2
CNCT 1720 Geometric Dimensioning	2
CNCT 1730 CNC 1	4
CNCT 1731 CNC 2	4
CNCT 1740 Design Principles	4
CNCT 2410 Tool Design	4
CNCT 2420 Mechanical Systems/EDM	4
CNCT 2430 Mold/Plastic Technology	4
CNCT 2520 CAD	4
CNCT 2530 CNC Lathe	4
CNCT 2540 Computer Aided Manufacturing	4
Subtotal	56

General Education/MnTC Requirements

General Education/MnTC Requirements	Cr
Refer to the Minnesota Transfer Curriculum Course 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	
PHYS 1720 Principles of Physics 1 – 4 cr OR	
Goal 4: Mathematical/Logical Reasoning	
MATH 1730, MATH 1760 OR MATH 2751	
Goal 5: History, Social Science and Behavioral Sciences	3
Goal 6: Humanities and Fine Arts	3
General Education Requirements	16

Total Program Credits **72**

Machine Tool Diploma

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 use solidworks, design parts and collaborate with engineers.

Program Requirements

Course	Cr
CNCT 1410 Introduction to Manufacturing Processes	4
CNCT 1420 Engineering Drawings	4
CNCT 1430 Materials Processes 1	4
CNCT 1431 Materials Processes 2	4
CNCT 1710 Shop Calculations	2
CNCT 1720 Geometric Dimensioning	2
CNCT 1730 CNC 1	4
CNCT 1731 CNC 2	4
CNCT 1740 Design Principles	4
CNCT 2410 Tool Design	4
CNCT 2420 Mechanical Systems/EDM	4
CNCT 2430 Mold/Plastic Technology	4
CNCT 2440 Manufacturing Applications	4
CNCT 2510 Mechanical Applications	4
CNCT 2520 CAD	4
CNCT 2530 CNC Lathe	4
CNCT 2540 Computer Aided Manufacturing	4

Total Program Credits **64**

360° Multi-Institution Integrated Technology Programs

Machine Technologist Certificate 30 Credits
 Production Technologies Certificate 15 Credits

Machine Technologist Certificate

Program Overview

This certificate will provide the first series of courses designed to be an introduction to production technologies and machining technology and provide initial information to start students on a career pathway. Included in coursework, students will engage in topics of technical mathematics, introductory computer skills, print interpretation, manufacturing processes, quality control, maintenance, and safety. Also, included in coursework, students will engage in topics of machine tool print reading, machine tool technology theory and lab principles, machining math, introduction to computer numerical control, and geometric dimensioning and tolerancing.

Program Outcomes

1. Graduates will gain a general knowledge of machining technology.
2. Graduates will gain knowledge and understanding of interpreting machine tool prints.
3. Graduates will apply machining mathematics skills to production processes.
4. Graduates will demonstrate basic understanding of computer numeric control.
5. Graduates will gain knowledge and understanding of geometric measuring and tolerancing.

Program Requirements

Course		Cr
CMAE 1502	Technical Mathematics	3
CMAE 1506	Introduction to Computer Applications	2
CMAE 1510	Print Reading	2
CMAE 1514	MSSC Safety	2
CMAE 1518	MSSC Manufacturing Process and Production	2
CMAE 1522	MSSC Quality Practice and Measurement (10 hours print reading)	2
CMAE 1526	MSSC Maintenance Awareness	2
CMAE 1530	Machining Math	2
CMAE 1532	Machine Tool Print Reading	2
CMAE 1534	Machine Tool Technology Theory	2
CMAE 1536	Machine Tool Technology Lab 1	2
CMAE 1538	Machine Tool Technology Lab 2	2
CMAE 1540	Introduction to CNC Machining	3
CMAE 1542	Geometric Dimensioning and Tolerancing	2
Total Program Credits		30

Production Technologies Certificate

Program Overview

This certificate will provide the first series of courses designed to be an introduction to production technologies and provide initial information to start students on a career pathway. Included in coursework, students will engage in topics of technical mathematics, introductory computer skills, print interpretation, manufacturing processes, quality control, maintenance, and safety.

Program Outcomes

1. Graduates will gain a general knowledge of electronics technology and automation.
2. Graduates will gain knowledge and understanding of AC/DC power.
3. Graduates will demonstrate basic understanding of digital electronics.
4. Graduates will gain knowledge and understanding of analog circuits.
5. Graduates will demonstrate basic understanding of motor controls.

Program Requirements

Course		Cr
CMAE 1502	Technical Mathematics	3
CMAE 1506	Introduction to Computer Applications	2
CMAE 1510	Print Reading	2
CMAE 1514	MSSC Safety	2
CMAE 1518	MSSC Manufacturing Process and Production	2
CMAE 1522	MSSC Quality Practice and Measurement (10 hours print reading)	2
CMAE 1526	MSSC Maintenance Awareness	2
Total Program Credits		15

Course Descriptions

Course descriptions are alphabetized by program area:

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Anthropology	131	Humanities	164
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Biochemistry	135	Medical Laboratory Technician	168
Biology	136	Medical Office Careers	170
Business	137	Music	172
Business Technology	139	Natural Sciences	172
Cabinetmaking	140	Nursing Assistant/Home Health Aide	173
Carpentry	141	Personal Trainer	173
Center for Manufacturing and Applied Engineering	142	Philosophy	173
Chemistry	142	Phlebotomy	174
Child Development	142	Physics	174
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CNC Technology	144	Plumbing	177
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Computer Science	146	Practical Nursing	178
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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 & 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. (Recommendation(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.” (Recommendation(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 hunter-gatherer, 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 provides learning experiences that meet the needs of students and pre-major course requirements in anthropology. (Recommendation(s): READ 0721 with a grade of “C” or better or appropriate assessment score.) (MnTC: Goal 5) 3C/3/0/0

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. (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 high-quality photographic portfolio. (Prerequisite(s): ARTS 1715 Black and White Photography 1 with a grade of "C" or better) (MnTC: Goal 6) 3C/3/0/0

ARTS 1712 Advanced Photography

Students in Advanced Photography participate in a service learning project and will continue to explore composition, exposure, camera work and advanced digital techniques to further enhance the capability of personal expression available in the medium. Ultimately, the student will recognize their own creative style and be able to set goals to achieve their photographic aspirations. We will discuss professional presentation of artwork, explore professional practices in photography, experiment with photographic techniques, and produce a high quality portfolio. (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 SPC but subsequent classes will be held at the Center for Media Arts (2400 University Ave West, Suite 100), NOT at Saint Paul College.** (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 self-expression 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 SPC but subsequent classes**

will be held at the Center for Media Arts (2400 University Ave West, Suite 100), NOT at Saint Paul College. (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. (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. (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-to-day 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. (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. (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 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. (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. (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. (MnTC: Goal 6) 3C/3/0/0

ARTS 1795 Special Topics in Art

This course provides learning experiences that meet the needs of students and pre-major course requirements in art. (MnTC: Goal 6) 3C/3/0/0

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

Auto Body

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): 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) 4C/1/3/0

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 shears. 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 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 2711 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

Biology

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. 2C/2/0/0

BIOL 1720 Environmental Science: Current Issues

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. Class time includes lab-like activities such as simulations or outdoor projects, group discussions, and the use of video and internet-based resources. (MnTC: Goals 3 & 10) 3C/3/0/0

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. (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, but does not fulfill requirements for the LPN or RN Programs. Traditional and web-enhanced sections are available. (MnTC: Goal 3) 3C/2/1/0

BIOL 1735 Exploring Biology

This course examines basic principles of chemistry, organization of cells, and properties and functions of biological macromolecules. The production and utilization of biological energy is explored at the cellular level and the similarity found in all organisms is emphasized. Principles of inheritance and cellular reproduction are explored at the molecular and cellular levels. This course also examines plant and animal kingdoms and general principles of ecology. It is intended for non-science majors or as preparation for BIOL 1740, and fulfills the lab science requirement. Two hours of lab per week are required. (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. Two hours of lab per week are required and 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 recommended for BIOL 1745 General Biology 2: The Living World. Traditional and web-enhanced 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, and independent biome research projects. Two hours of lab per week are required and some activities involve the dissection of preserved animals and animal organs. The course is offered during Spring Semester only. (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. (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. (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 fact-based, opinion-based and controversial will be open to debates and discussions. Traditional and online sections are available. (MnTC: Goals 3 & 9) 3C/3/0/0

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, endocrine, lymphatic/immune, digestive, urinary and reproductive 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. Two 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 1740 General Biology 1: The Living Cell 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 1447 Sales and Sales 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. 2C/2/0/0

BUSN 1480 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 1482 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. This course may include work on portfolios, electronic portfolios, and interviewing skills. 2C/2/0/0

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. This 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

BUSN 2475 Project Management

This course builds upon the foundations of project management and analyzes project management business decisions. Students evaluate the strategic role of projects in organizations and how project portfolio management can be used to guide an organization's project success. The course is designed to allow the student to use tools and techniques to study business processes, financial analysis and risk models in developing and executing projects in a business. The purpose of the course is to understand the underlying principles of project management from a business perspective. 4C/4/0/0

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, disk maintenance, working with 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 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 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. (Prerequisite(s): CARP 1410, CARP 1420, & CARP 1430) 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 on-line course utilizing Tooling U and D2L. 2C/2/0/0

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. 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 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 2711 Organic Chemistry 1

This course is an introduction to the first semester of a two-semester sequence in to organic chemistry. Topics include an overview of covalent bonding, acid-base chemistry, and reaction energetics. The course also covers an introduction to organic functional groups, stereochemistry, and substitution reactions. The laboratory activities include an introduction to laboratory techniques used in organic chemistry 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) 4C/3/1/0

CHEM 2712 Organic Chemistry 2

This course is a continuation of CHEM 2711 Organic Chemistry 1, and while the focus of CHEM 2711 was in structure, the focus of CHEM 2712 is reactivity. Topics include the reactivity of alkenes, alkynes, alcohols, amines, ketones, aldehydes, carboxylic acids, and their derivatives based on their structures. 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 photochemistry. The laboratory activities cover reactions and the chemical and instructional identification of organic compounds. Three hours of lab per week are required. (Prerequisite(s): CHEM 2711 with a grade of "C" or better) (MnTC: Goal 3) 4C/3/1/0

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 provides learning experiences that meet the needs of students and pre-major course requirements in Chemistry. (MnTC: Goal 3) Variable credits 1-4

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. 3C/3/0/0

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 problem-solving. Students will study professional ethics and procedures for evaluating staff. (Prerequisite(s): Completion of certificate level coursework) 2C/2/0/0

CDEV 2610 Practicum 2

Provides an opportunity to apply knowledge and skill in an early childhood setting. Students implement a variety of learning experiences that are developmentally appropriate for and culturally sensitive to a specific age and group of children. (Prerequisite(s): Successful completion of all required AAS coursework and instructor approval) 3C/0/0/3

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

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 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

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 1404 College and Information Literacy

This course focuses on developing information and college literacy skills. Students will develop knowledge and skills in accessing, retrieving, appropriately citing, and critically evaluating information in various formats. Students will build skills in basic computer usage, efolio, and online learning. Students will prepare a preliminary research project and presentation. 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

CSCR 1407 Sleep, Eat and Exercise

Inactivity, poor nutrition, and inadequate sleep are common problems among college students and are leading contributors to a variety of short-term and long-term consequences. Research indicates that, in addition to improving health, healthy habits can reduce stress and improve academic performance.

Sleep, Eat and Exercise is an introductory level course designed to provide you with the knowledge and skills you need to live a balanced life while in college and prevent unhealthy weight gain. It covers basic concepts in nutrition, sleep, physical activity and incorporates a variety of techniques to promote self-awareness and reflection, goal setting, and action toward wellness.

The course is set up so that in-class learning is supplemented with hands-on, experiential learning that occurs in the classroom or at other campus locations. In addition, most classes include a healthy snack and a stress-reduction activity. 1C/1/0/0

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 1521 Structures of Computer Programming 1

This course is the first of two courses that provide students with a foundation in computer science. Students develop intermediate programming skills using a language, (Java) that supports an object-oriented approach. Successful students in this course will be proficient in the development of algorithms using the fundamental logic structures, implementing their solution in Java and execution and testing of the resulting programs. The course is designed around the specifications published by the ACM and IEEE for a first and second course in computer science. (Prerequisite(s): CSCI 1410 or instructor approval) 4C/4/0/0

CSCI 1522 Structures of Computer Programming 2

This course is the second of two courses that provide students with a foundation in computer science. Students develop intermediate programming skills using a language that supports an object-oriented approach. This course is conducted with an emphasis on data structures, algorithms which operate data structures, algorithmic analysis, software engineering principles, software and information assurance. The course is designed around the specifications published by the ACM and IEEE for a second and third course in computer science. (Prerequisite(s): CSCI 1521 or instructor approval) 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 1541 Java Programming 1

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 server-side 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 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, iPod touch 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 Prelinic 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 Prelinic 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 Prelinic 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 Prelinic 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 Prelinic 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 Prelinic 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 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 varieties 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 varieties, 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

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 Wine with Food

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 varieties 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 in-depth 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 1443 Developing Web Sites with Dreamweaver

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 CSS with Dreamweaver

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 Creating Web Animation with Flash

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 as a Presentation Media

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 Creating a Portfolio with Photoshop

This course is a continuation of DGIM 1483 Photoshop 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 as a Presentation Media or equivalent knowledge) 2C/2/0/0

DGIM 1485 Second Life Basics

This course introduces students to the world of Second Life – a three dimensional virtual environment which is built and maintained by Linden Lab. Virtual environments are predicted to become a primary portal to the Internet after the year 2010. Students will work with a graphical user-interface to alter, develop, build, or submit a customized personal avatar or community, explore in-world design considerations and work with scripted objects. Second Life's implication on the marketing and branding of businesses and organizations will be explored. Programming and planning for future Second Life world development and interaction will also be studied. Students will learn to use Second Life to develop and market products, develop collaborative work environments, create animations and interact with a global community of Second Life residents. Individuals signing up for this class must be 18 or older. 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, re-topology 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 Stencil, 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 used 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 Pro video 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 Pro video 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 2600 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 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 students with an overview of the U.S. economic system. (MnTC: Goal 5) 3C/3/0/0

ECON 1720 Macroeconomics

An introductory study of macroeconomics. Emphasis on the theory of demand and supply, historical and contemporary macroeconomic theories, national income, fiscal and monetary policy, money and banking, the Federal Reserve System, unemployment and inflation, business cycles and price level determinants. The impact of international economics will also be discussed. (MnTC: Goals 5 & 8) 3C/3/0/0

ECON 1730 Microeconomics

An introductory study of microeconomics. Emphasis is on price system, resource allocation, production costs, consumers, firms and market structures and application of theory. Monopoly, oligopoly and antitrust policy will be examined. Public good, income distribution and the economics of taxation and social choice will be discussed in light of current economic issues. The impact of international economics will also be discussed. (MnTC: Goals 5 & 8) 3C/3/0/0

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 1420 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. 4C/1/3/0

ELTN 1430 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. Hands-on 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 1420) 4C/1/3/0

ELTN 1440 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 1420) 4C/1/3/0

ELTN 1510 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. 4C/1/3/0

ELTN 1520 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. 4C/1/3/0

ELTN 1530 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. 4C/1/3/0

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 2520 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 hands-on mockup setting. (Prerequisite(s): ELTN 2410, ELTN 2420, ELTN 2430, ELTN 2440) 4C/1/3/0

ELTN 2530 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) 4C/1/3/0

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

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 (ProE)

This course introduces students to basic computer applications used for the design and engineering of projects. It includes the structure and use of standard CAD software, appropriate computational tools, and programming logic. Students will apply basic computer applications to various engineering systems and processes. 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 2700) 3C/3/0/0

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 shear and moment diagrams. (Prerequisite(s): Grade of "C" or better in ENGR 1706) 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. Learners 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, socio-cultural 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. (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 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.

(Recommendation(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

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 and well-organized paragraphs. 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 0840 ESL for Working Adults

This intermediate level ESL course is designed for working adults interested in improving their English skills. This course integrates all four skills with the emphasis on grammar and reading. Grammar concepts are introduced in context, and accuracy is developed through extensive oral and written exercises. The topics of study include themes of high interest. Students will also write short stories and make brief presentations related to the topics of study. This course is not part of the ESOL. (Prerequisite(s): Appropriate assessment score) 3C/2/1/0

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, basic research skills, 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

Geography

GEOG 1700 Physical Geography

This course introduces students to the physical systems and features of the earth. It covers the distribution of, and the processes influencing, world patterns of climate, vegetation, and land forms. The class also focuses on the influence of human activities on environmental systems. (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: world population growth, distributions, migrations, characteristics, cultural geography (patterns of language and religion, folk customs, globalization of popular culture), global economic activity and development, and political organization of the world (evolution of states, territorial conflicts). Case studies from many parts of the world will be analyzed and key geographic concepts will be reviewed. (MnTC: Goals 5 & 8) 3C/3/0/0

GEOG 1730 Global Economic Geography

This course studies how humans earn their living in different locations throughout the world and then investigates the patterns and processes reflected in this geographic variation. Through theoretical location models and empirical spatial analysis, economic geometry attempts to explain the variations in economic phenomena from place to place by focusing on the production, distribution, exchange, and consumption activities. (MnTC: Goals 5 & 8) 3C/3/0/0

GEOG 1740 World Geography

This course covers the geographic study of the world including physical systems, features, and world cultural areas. Topics include physical systems, features, world populations, cultural geography, global economic activity and development, and the political organization of the world. (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. (MnTC: Goals 5 & 10) 3C/3/0/0

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, Reflexology 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. 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 and 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

History**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. (Recommendation(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. (Recommendation(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. (Recommendation(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. (Recommendation(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. (Recommendation(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. (Recommendation(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. (Recommendation(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. (Recommendation(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 explores special topics in history not offered in other standard history courses. Topics will vary and provide learning experiences that meet the needs of students and premajor course requirements in history. Credits will vary by semester, between 1 and 3. (Prerequisite(s): READ 0721 with a grade of “C” or better or concurrent enrollment or appropriate assessment score.) (MnTC: Goals 5 & 7) Variable credits 1-3

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 1710 The Art of Being Human: An Introduction to Humanities

This course introduces themes central to human existence, from ancient times to the present. The themes are interpreted through art, music, literature, drama, film and philosophy. This course serves as an introduction to writing, art and ideas conceived throughout history. (MnTC: Goals 6 & 8) 4C/4/0/0

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. (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. (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. (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. (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. (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 deal 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 film works from Europe, Eastern Europe, Japan, Australia, New Zealand, China, Latin America and Canada. (MnTC: Goals 6 & 8) 3C/3/0/0

Interpreter/Transliterater 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 1511 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 1511 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/Transliterater Program and ASLS 1420 with a grade of "C" or better or taken concurrently with ASLS 1420) 3C/3/0/0

INTP 1512 Consecutive Interpreting 1

This course develops consecutive interpreting skills introduced in INTP 1511 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 1511) 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 2591 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 2510 Educational Interpreting

This course is an overview of the field of educational interpreting. It covers educational interpreter roles, responsibilities, ethics and techniques. Students will examine language usage, communication processes and case studies. This knowledge will be applied to interpreting for consumers in preschool through post-secondary settings. (Prerequisite(s): Grade of "C" or better in INTP 1440 and INTP 1511) 2C/2/0/0

INTP 2550 Community Resources Seminar

This course introduces students to the agencies, organizations and institutions that serve and/or are run by Deaf, Hard-of-Hearing and Deaf/Blind people, throughout Minnesota and western Wisconsin. Students will familiarize themselves with these resources through research in the community. (Prerequisite(s): INTP 1511 with a grade of "C" or better) 1C/1/0/0

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 2591 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 Performance Skills Evaluations in INTP 2412 Sign to Voice 2, INTP 2422 Voice to Sign 2 and INTP 2432 Transliterating 2) 6C/0/0/6

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 1471 Reflexology 1

This course will introduce the student to the core abilities of reflexology. The course includes the history and theories of reflexology and the basics of the hands-on application of reflexology as a consultative practice. The course will teach theory and skill sets necessary to build a reflexology service for the hands or feet. Modern Zone theory and the evidence of ancient reflexology practices will be explored. (Prerequisite(s): HLTH 1418 or concurrent enrollment. HLTH 1410, HLTH 1420, HLTH 1425, HLTH 1900 are recommended.) 3C/3/0/0

MASS 1472 Reflexology 2

This course will introduce the skills needed to successfully practice reflexology on the hands and feet of the body. The anatomy and unique attributes of the feet and hands of the body will be explored. The student will learn to accept responsibility for the safe and effective practice of reflexology, appreciate theories and origins of reflexology, compare and contrast applications of reflexology, assess the rules for practice and comprehend the ethical and legal responsibilities of the clinical reflexologist. Reflexology is a consultative practice only and the student will understand the difference between consultative and prescriptive healing practices. Can be taken concurrently with MASS 1471. 3C/1/2/0

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 with a grade of “C” or better and concurrent enrollment in MASS 1422) 4C/0/4/0

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/1/4/0

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). (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. (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. (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 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 Calculus 3

This course covers surfaces, vector-valued functions, partial differentiation, multiple integration, and vector calculus. (Prerequisite(s): MATH 2750 Calculus 2 with a grade of “C” or better) (MnTC: Goal 4) 4C/4/0/0

MATH 2760 Ordinary Differential Equations

This course presents the theory, computations and applications of first and second order differential equations and two-dimensional systems. A graphing calculator is required. (Prerequisite(s): MATH 2753 Calculus 3 with a grade of “C” or better) (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. 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 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): MDLT 1410) 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): CHEM 1711 or concurrent enrollment and a grade of “C” or better in MDLT 1410) 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): CHEM 1711 or concurrent enrollment and MDLT 1410) 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 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): MDLT 1410) 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

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): Grade of "C" or better in MDLT 1410) 2C/1/1/0

MDLT 2400 Mycology/Parasitology

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): BIOL 1740 or concurrent enrollment and 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. 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

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): BIOL 1740 and a grade of "C" or better in MDLT 1410) 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 non-technical attributes including, but not limited to, communication, critical thinking, multitasking and independent work skills. Students rotate through hematology, chemistry, urinalysis, microbiology, immunohematology, 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 1-9C/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 Careers

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. 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. 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. 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. (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. (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. (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. (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. (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. (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. (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. (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. (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. (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. (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. (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 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. (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. (Prerequisite(s): MEDS 2461 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. (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. (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 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 1740 Music Appreciation

A study of classical music from 1450 to the 20th Century. Developed for students interested in increasing their awareness and understanding of music. (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. (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. (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 identify 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

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. (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. (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. (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. (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. (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. (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. (MnTC: Goals 3 & 9) 3C/3/0/0

NSCI 1790 Special Topics in Natural Science

This course explores special topics in natural science not offered in other standard natural science courses. Topics will vary and provide learning and lab-like experiences that meet the needs of students and pre-major course requirements in natural science. (MnTC: Goals 3 & 10) 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. (MnTC: Goals 3 & 10) 3C/3/0/0

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) 5C/0/5/0

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. (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. (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. (MnTC: Goals 6 & 9) 3C/3/0/0

PHIL 1722 Health Care Ethics

This course introduces basic ethical theories, principles, and decision-making 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. (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. (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. (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. (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. (MnTC: Goals 6 & 8) 3C/3/0/0

Phlebotomy

PHLB 1400 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) 3C/1/2/0

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, thermodynamics 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 the waves and sound, electricity and magnetism, light and optics, and topics in modern physics. Lecture and lab. (Prerequisite(s): 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 using reflecting and refracting telescopes. The earth and its motion, sun, moon, solar system, stars and the galaxies will also be studied. Course includes lab-like learning activities. (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 Thermodynamics. 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)

Course Description 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 planets 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. (MnTC: Goals 3 & 10) 4C/3/1/0

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 pre-apprenticeship 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): Must be enrolled in Pipefitting pre-apprenticeship 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): 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): 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): 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): Must be enrolled in Pipefitting pre-apprenticeship 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

This course covers the care and use of tools and equipment used by the pipefitter, the identification and uses of different types of pipe, pipefittings, hangers and pipe supports. Assigned pipe projects will include calculating, measuring, cutting and assembling pipe and fittings in both straight runs and offsets. (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 modern 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) & 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 non 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/1/1/0

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. Special attention will be given to current affairs and their historical roots. (Recommendation(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. We will focus on the causes of war and peace, terrorism, and the relationships between war and morality. This course will stress the development of critical thinking skills necessary for the practice of responsible citizenship in a global world. (Recommendation(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. Ideologies to be studied include liberalism, conservatism, socialism, Nazism and environmentalism. 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. Possible thinkers to be studied include Plato, Hobbes, Locke, Rousseau, Hume, Mill, Marx, Nietzsche and Rawls. (Prerequisite(s): READ 0721 with a grade of "C" or better or appropriate assessment score) (MnTC: Goals 5 & 9) 3C/3/0/0

Practical Nursing

PRNS 1420 Essentials of Clinical Pharmacology

This course introduces to the concepts of introductory pharmacology and dosage math including systems of measurement. Students will study conversions, solving for x, ratio and proportions, pediatric formulas, and IV drip rate problems. Medications are studied according to their classifications with an emphasis on their actions, uses, side effects, and nursing implications. The principles of safe drug administration and close patient monitoring are integrated throughout the course. Upon completion of this course students will provide nursing care according to the nursing process contributing to the enhancement of health care delivery and protection of patients through both system effectiveness and individual performance. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): MATH 0742 or appropriate assessment score. HLTH 1410, HLTH 1420, HLTH 1460, ENGL 1711, PHIL 1722, PSYC 1720, SPCH 1720 or SPCH 1730 or SPCH 1750. Must be accepted as a Practical Nursing major.) 3C/3/0/0

PRNS 1430 Fundamentals of Nursing

In this course students 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 will be able to provide care according to the nursing process, contributing to the enhancement of health care delivery and protection of patients and personnel through both system effectiveness and individual performance. Using patient-centered care, students will recognize the patient or designee as the source of control and full partner in providing compassionate and coordinated care based on the patient's preferences, values, and needs. Students will function effectively with classmates; fostering open communication, mutual respect, and shared decision-making during the practice and test-back of skills. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Grade of "C" or better in HLTH 1410, HLTH 1420, HLTH 1460, ENGL 1711, PHIL 1722, PSYC 1720, SPCH 1720 or SPCH 1730 or SPCH 1750. Must be accepted as a Practical Nursing major.) 5C/1/4/0

PRNS 1491 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 safe and competent cares to patients of both genders, and complete written clinical assignments applying theory learned in Level I. Students will provide nursing care according to the nursing process contributing to the enhancement of health care delivery and protection of patients and personnel through both system effectiveness and individual performance. Students will recognize the patient or designee as the source of control and full partner in providing compassionate and coordinated care based on respect for patient preferences, values, and needs. Students will demonstrate competency within the Practical Nurse scope of practice to provide safe, quality care for diverse patients in a caring environment. Students will function effectively within nursing and inter-professional teams, fostering open communication, mutual respect, and shared decision-making to achieve quality patient care. Students will demonstrate responsibility for their own personal and professional growth as self-motivated, self-directed persons who utilize self-reflection and feedback from team members. Must earn a grade of "C" or better in this course to proceed. (Prerequisite(s): Grade of "C" or better in PRNS 1420, PRNS 1430, PRNS 2410 and PRNS 1521) 4C/0/4/0

PRNS 1492 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 1491 and PRNS 1522) 4C/0/4/0

PRNS 1493 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 1492 and PRNS 1530) 4C/0/4/0

PRNS 1521 Medical Surgical 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 post-operative 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 1420, PRNS 1430, and PRNS 2410 or concurrent enrollment) 4C/4/0/0

PRNS 1522 Medical Surgical 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) 4C/4/0/0

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 1492 and PRNS 1522) 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, HLTH 1420, HLTH 1460, ENGL 1711, PHIL 1722, PSYC 1720, SPCH 1720 or SPCH 1730 or SPCH 1750. 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. 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 1730 Introduction to Child Psychology

This course covers child development from the prenatal period through middle childhood. The course will emphasize research methods, theories of child development and an exploration of the genetic and environmental factors that influence children’s social and cognitive development. (Prerequisite(s): PSYC 1710 General Psychology) (MnTC: Goal 5) 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-IV 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. (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. (MnTC: Goal 5) 4C/4/0/0

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

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 semester. 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 Ill 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. (Recommendation(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. (Recommendation(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. (Recommendation(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. (Recommendation(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 sociology 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. (Recommendation(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. (Recommendation(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. (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. (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. (Recommendation(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 provides learning experiences that meet the needs of students and pre-major course requirements in sociology. (Recommendation(s): READ 0721 with a grade of “C” or better or appropriate assessment score.) (MnTC: Goal 5) Variable credits 1-3C/1-3/0/0

SOCI 2760 Sociology Through Film and Music

This course will explore the connection between music and film and the social context in which they are created. Students will learn how to view a film and listen to music critically, to identify the social issues depicted in each format. Topics explored in this course may include racism, sexism, heterosexism, ageism, stereotypes, discrimination, violence, and crime. Major theoretical perspectives and research methods of sociology will be used in the analysis of films and songs. (Recommendation(s): READ 0721 with a grade of “C” or better or appropriate assessment score.) (MnTC: Goals 5 & 7) 3C/3/0/0

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. (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 equivalent and 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 permission of Instructor) (MnTC: Goal 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. (Prerequisite(s): SPAN 1730 with a grade of “C” or better, or placement exam or permission of Instructor) (MnTC: Goal 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. (MnTC: Goal 8) 3C/3/0/0

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 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

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 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 warm-ups 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 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

WLDT 1410 Oxy-Acetylene Welding, Cutting & Brazing, Carbon Arc & Plasma

This introductory course will cover shop safety practices, the theories and concepts necessary for an understanding of basic oxy-acetylene 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): WLDT 1420, 1430, 1440) 4C/1/3/0

WLDT 1420 Intro to SMAW, Metallurgy & Welding Theory E6013 & E6010

This course covers the introduction of the theories and concepts necessary for the SMAW process using both the E6013 and E6010 electrodes in the various welding positions, according to current industry standards. Instruction on the use, care and safety practices of SMAW equipment will also be emphasized. (Co-Requisite(s): WLDT 1410, 1430, 1440) 4C/1/3/0

WLDT 1430 Intro to Blueprint & Measuring Devices

This course is designed to cover such fundamental principles of drawing interpretation as may be required by the layout welder and setup person. To accomplish this objective, basic lines and the functions are studied and projects are assigned. This course also covers the use of different measuring devices used in the welding trades. (Co-Requisite(s): WLDT 1410, 1420, 1440) 4C/3/1/0

WLDT 1440 Intro to Welder Qualification & SMAW E7018

Covers the manipulative skills and procedures necessary for the completion of E7018 Shielded Metal Arc welds in all positions. Weld testing procedures will be stressed, allowing the student the opportunity to achieve certification. (Co-Requisite(s): WLDT 1410, 1420, 1430) 4C/1/3/0

WLDT 1510 GMAW, Short Arc

Provides students with the opportunity to build proficiency in the GMAW (Gas Metal Arc Welding) process using the short arc transfer with mild steel. All positions will be covered. Students will be expected to work to industry standards for apprentice welders in the area of quality and efficiency. (Prerequisite(s): WLDT 1410, 1420, 1430, 1440; Co-Requisite(s): WLDT 1520, 1530, 1540) 4C/1/3/0

WLDT 1520 Intro to GTAW – Mild Steel & Stainless

Provides students with the opportunity to build proficiency in the GTAW process with mild steel & stainless in all positions. The student will be expected to work to industry standards for apprentice welders in the areas of quality and efficiency. (Prerequisite(s): WLDT 1410, 1420, 1430, 1440; Co-Requisite(s): WLDT 1510, 1530, 1540) 4C/1/3/0

WLDT 1530 GMAW Spray & Pulse

Provides students with the opportunity to build proficiency in the GMAW process using the spray and pulse spray transfers with mild steel. All positions will be covered. Students will be expected to work to industry standards for apprentice welders in the area of quality and efficiency. Weld testing procedures will be stressed, allowing the student the opportunity to achieve certification. (Prerequisite(s): WLDT 1410, 1420, 1430, 1440; Co-Requisite(s): WLDT 1510, 1520, 1540) 4C/1/3/0

WLDT 1540 Blueprint Symbols, Weld Inspection & Welder Certification

This course will focus on the knowledge of welding symbols as specified by the American Welding Society, (AWS). Welding inspection & welder qualification procedures will also be covered. (Prerequisite(s): WLDT 1410, 1420, 1430, 1440; Co-Requisite(s): WLDT 1510, 1520, 1530) 4C/3/1/0

WLDT 2410 GMAW Aluminum & Stainless Steel

Provides students with the opportunity to build proficiency in the GMAW process using Aluminum and Stainless Steel. The introduction of the Aluminum and Stainless numbering system will be covered. Students will be expected to perform to industry standards as required for apprentice welders to achieve certification. (Prerequisite(s): Successful completion of Welding Technology Certificate or equivalent; Co-Requisite(s): WLDT 2420, 2430, 2440) 4C/1/3/0

WLDT 2420 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 testing procedures will be stressed, allowing the student the opportunity to achieve certification. (Prerequisite(s): Successful completion of Welding Technology Certificate or equivalent; Co-Requisite(s): WLDT 2410, 2430, 2440) 4C/1/3/0

WLDT 2430 Areas & Volumes

Covers the calculation of the areas (2D) and volumes (3D) of geometric figures for use in layout and cutting operations. The information & knowledge in these areas are essential for the success in the welder and fabricator trades. (Prerequisite(s): Successful completion of Welding Technology Certificate or equivalent; Co-Requisite(s): WLDT 2410, 2420, 2440) 4C/4/0/0

WLDT 2440 Grinding & 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 & pharmaceutical standards. (Prerequisite(s): Successful completion of Welding Technology Certificate or equivalent; Co-Requisite(s): WLDT 2410, 2420, 2430) 4C/1/3/0

WLDT 2510 GTAW Aluminum

Provides students with the opportunity to build proficiency in the GMAW process using Aluminum sheet & plate in various weld positions. Aluminum numbering systems will also be covered. Students will be expected to perform to industry standards as required for apprentice welders. Students will have the opportunity to certify in the GTAW process. (Prerequisite(s): Successful completion of Welding Technology Certificate or equivalent; Co-Requisite(s): WLDT 2520, 2530, 2540, 2550) 4C/1/3/0

WLDT 2520 Radan Drafting

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 metal layout. (Prerequisite(s): Successful completion of Welding Technology Certificate or equivalent; Co-Requisite(s): WLDT 2510, 2530, 2540, 2550) 2C/2/0/0

WLDT 2530 Layout and Fabrication Practices

Designed to build proficiency in welding skills taught in previous classes and introduce the student to Metal Fabrication. The student will be expected to work within industry standards using math formulas, bend allowances and measuring instruments as required for apprentices. (Prerequisite(s): Successful completion of Welding Technology Certificate or equivalent; Co-Requisite(s): WLDT 2510, 2520, 2540, 2550) 2C/2/0/0

WLDT 2540 Shop Hand & Power Equipment

Designed to build proficiency in the metal fabricating field. The student will be expected to work within industry standards for apprentice welders/fabricators. Assigned projects utilizing related skills not previously introduced are encountered in live work situations, using a variety of tools & fabrication equipment. (Prerequisite(s): Successful completion of Welding Technology Certificate or equivalent; Co-Requisite(s): WLDT 2520, 2520, 2530, 2550) 4C/1/3/0

WLDT 2550 CNC Shop Equipment & Robotics

Designed to build proficiency in fabrication skills beyond previous classes. The student will be expected to work within industry standards as for apprentice fabricators using hands on work projects. Introduction to Plasma Cutting (CNC), Press Break (CNC) & robotics (CNC) operations will be covered. (Prerequisite(s): Successful completion of Welding Technology Certificate or equivalent; Co-Requisite(s): WLDT 2510, 2520, 2530, 2540) 4C/1/3/0

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. (MnTC Goals: 5 & 9) 3C/3/0/0

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BS, The University of Minnesota
MS, The College of St. Scholastica
MBC, University of St. Thomas

Jones, Sean

Culinary Arts
AAS, Saint Paul College—A Community
& Technical College

Kahle, Matthew

Engineering
BSCE, Rose-Hulman Institute of Technology
MS, Georgia Institute of Technology

Kortenhof, Kurt

History
BA, University of Wisconsin, Eau Claire
MA, University of Wisconsin, Eau Claire

Kpanaku, Zubah

Chemistry
BS, Cuttingham University College
MS, Purdue University
MS, Ohio University

Krug, Manfred

Culinary Arts
Diploma, Saint Paul College—A Community
& Technical College
BS, University of Wisconsin, Stout
AOS, Culinary Institute of America

Lawson, Peter

Economics
BS, University of Wisconsin, Superior
MS, Utah State University

Leggs, Michael

English
BA, Kansas State University
MA, Kansas State University

Faculty *continued*

Loewen, Kendal

Accounting
BS, University of Minnesota
MMIS, Metropolitan State University

Lund, Bill

English
BA, Westmar College
MA, Ball State

Lynn, Mark

Computer Careers
BA, Rutgers University
MS, Rutgers University

Massa, Janet

Child Development Careers
BS, University of Wisconsin, Stout
MA, Concordia College

Maus, Craig

Hospitality Management
AA, North Hennepin Community College
BA, Minnesota State University, Mankato
MBA, University of St. Thomas

Mazur, Celeste

Reading
BS, Michigan Technical University
MA, Hamline University

Mbonifor, Patience

Practical Nursing
BSN, Bethel University
MSN, Walden University

McClure, Laura

Practical Nursing
BS, Winona State College
MSN, Walden University

McDonald, Perpetua

Practical Nursing
BS, South Dakota State University
MSN, Walden University

McKown, Kelly

Child Development
BS, California State University
MS, University of Wisconsin, Stout

Mehmood, Nasreen

Biology
BS, Osmania University
MS, Osmania University
PhD, Osmania University

Mills, Anita

Health Unit Coordinator
BA, Concordia University

Murray, Terry

Machine Tool Processes
Diploma, Saint Paul College—A Community
& Technical College

Nguyen, Francois

Mathematics
BA, University of St. Thomas
MEd, University of LaVerne

O'Connell, Patricia

Interpreter Training Program
BS, University of Wisconsin, Madison

O'Halloran, James

Accounting
BS, Minnesota State University, Mankato
MBA, University of Minnesota
MBT, University of Minnesota

Olson, Mary

Practical Nursing
AS, Century College
BSN, Bethel University
MA, Bethel University

Olson, Kelly

Human Resource Management
AS, Saint Paul College—A Community
& Technical College
BA, St. Mary's University of Minnesota
MBA, University of Phoenix

Olson-Sartain, Jennie

Reading
BS, University of Minnesota
MA, College of St. Catherine

Pardun, Greg

Automotive Service Technician
Diploma, Dakota County Technical College

Paulnock, Daniel

Speech
BS, Emerson College
MS, Emerson College

Pearson, Darren

Computer Careers
BSEE, University of North Dakota
MS, University of Minnesota

Perez Castillejo, Susana

Spanish
BA, Universidad de Savilla
MA, University of North Carolina
MA, University of Minnesota

Peterson, Christine

Business Technology Careers
BA, University of Statesboro
MEd, University of Minnesota

Poindexter, Starletta

English
BA, Eastern Illinois University
MA, Eastern Illinois University

Poth, Lynn

Medical Laboratory Technician
BS, University of Texas, El Paso
MS, University of North Dakota

Faculty *continued*

Pueringer, Kristin

Mathematics
BS, St. Olaf College
MS, University of Minnesota

Purcell, John

Automotive Service Technician

Purcell, Kirstin

Biology
BA, University of Minnesota
ME, University of Minnesota
MCLS, University of Maryland

Pyzik, Linda

Business Technology Careers
BS, University of Minnesota
MEd, University of Minnesota

Rafferty, Patrick

Truck Technician
Diploma, Saint Paul College—A Community
& Technical College

Reigstad, Shelby

Speech
BS, St. Cloud State University
MA, Bethel College

Rock, Jayne

English
BA, St. Cloud State University
BA, South Dakota State University
MA, Saint Cloud State University

Roethke, Leigh

Art
BFA, Savannah College of Art & Design
MA, University of Minnesota

Ross, Kathy

Respiratory Care
AAS, Pima College

Russell, Judy

Respiratory Care Practitioner
AAS, Saint Paul College—A Community
& Technical College

Sartain, Jeremy

Massage Therapy
BA, University of Minnesota, Duluth

Sartain, Nathan

Culinary Arts
Diploma, Western Culinary Institute

Schmitz, Lisa

Mathematics
Psychology
BS, University of Wisconsin, River Falls
MS, University of Minnesota
MA, University of St. Thomas

Schones, Edward

Electrical Technology
BA, Macalester College
MA, University of Minnesota

Selton, Julie

Electrical Technology
AA, Anoka Technical College

Setley, Keith

Electrical Technology
AA, Saint Paul College—A Community
& Technical College
BS, University of Wisconsin, Stout

Shah, Avani

Mathematics
BS, Gujarat University
BS, Gujarat University
BEd, Gujarat University
MBA, University of Phoenix

Shariff, Ayesha

History
BA, North Central College
MA, University of Wisconsin, Madison
PhD, University of Wisconsin, Madison

Sheaffer, Warren

Computer Careers
BS, University of Pittsburgh
MBA, University of Pittsburgh
MST, Massachusetts Institute of Technology

Starkey, Penny

Chemistry
BS, University of St. Thomas
PhD, University of Minnesota

Stoltz, Lori

English
AA, Rochester Community College
BA, University of Minnesota
MFA, Hamline University

Strand, Timothy

Carpentry
Diploma, Saint Paul College—A Community
& Technical College
AAS, Inver Hills Community College

Stueve, Mary

Biology
BS, University of Minnesota
MS, University of Minnesota

Su, Ba

Mathematics
BS, University of Wisconsin, River Falls
MS, Iowa State University

Sundlie, Jolene

Sociology
BA, Minnesota State University, Moorhead
MS, North Dakota State University

Faculty *continued*

Tarrell-Florey, Amy

English for Speakers of Other Languages
BA, Washington University in St. Louis
MA, University of Minnesota

Taylor, Natalya

Mathematics
BA, Russian A.I. Herzen State Pedagogical University
MA, Russian A.I. Herzen State Pedagogical University

Taylor, Susan

English
BA, California State University, Los Angeles
MFA, University of Minnesota

Tri, Ben

Librarian
BA, St. Thomas University
MS, University of Wisconsin, Milwaukee
MPNA, Metropolitan State University

Trego, Shannon

Geography
BA, University of Wisconsin, Madison
MA, University of North Carolina, Chapel Hill

Tsegaw, Yewondwossen

Practical Nursing
AS, Minneapolis Community & Technical College
BS, Metropolitan State University
MSN, Walden University

Turner, Joia

Philosophy
BA, University of Massachusetts, Amherst
MA, Indiana University
PhD, Indiana University

Vasterling, Daniel

Culinary Arts
AAS, Saint Paul College—A Community
& Technical College

Virnig, Heather

American Sign Language
BA, Gallaudet University
MS, McDaniel College

Wesley, Kathryn

General Studies & Vocational Assessment
BS, University of Wisconsin, Stevens Point
MS, University of Wisconsin, Stout

Wheeler, Jody

English
AA, Ridgewater Community College
BA, Bemidji State University
MA, St. Cloud State University

Widmyer, David

Machine Tool Processes
Diploma, Saint Paul College—A Community
& Technical College
BS, University of Wisconsin, Stout

Wold, Richard

Machine Tool Processes
Diploma, Saint Paul College—A Community
& Technical College
ALA, University of Minnesota
BS, University of Minnesota
MEd, University of Minnesota

Wolfson, Inna

English for Speakers of Other Languages
BA, Simferopol State University
MA, Hamline University

Zimmerman, Maggie

Earth Science
BA, University of St. Thomas
MS, University of Illinois, Chicago

Zitzer, Carl

Sheet Metal
Diploma, Saint Paul College—A Community
& Technical College
BA, National Labor College

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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.

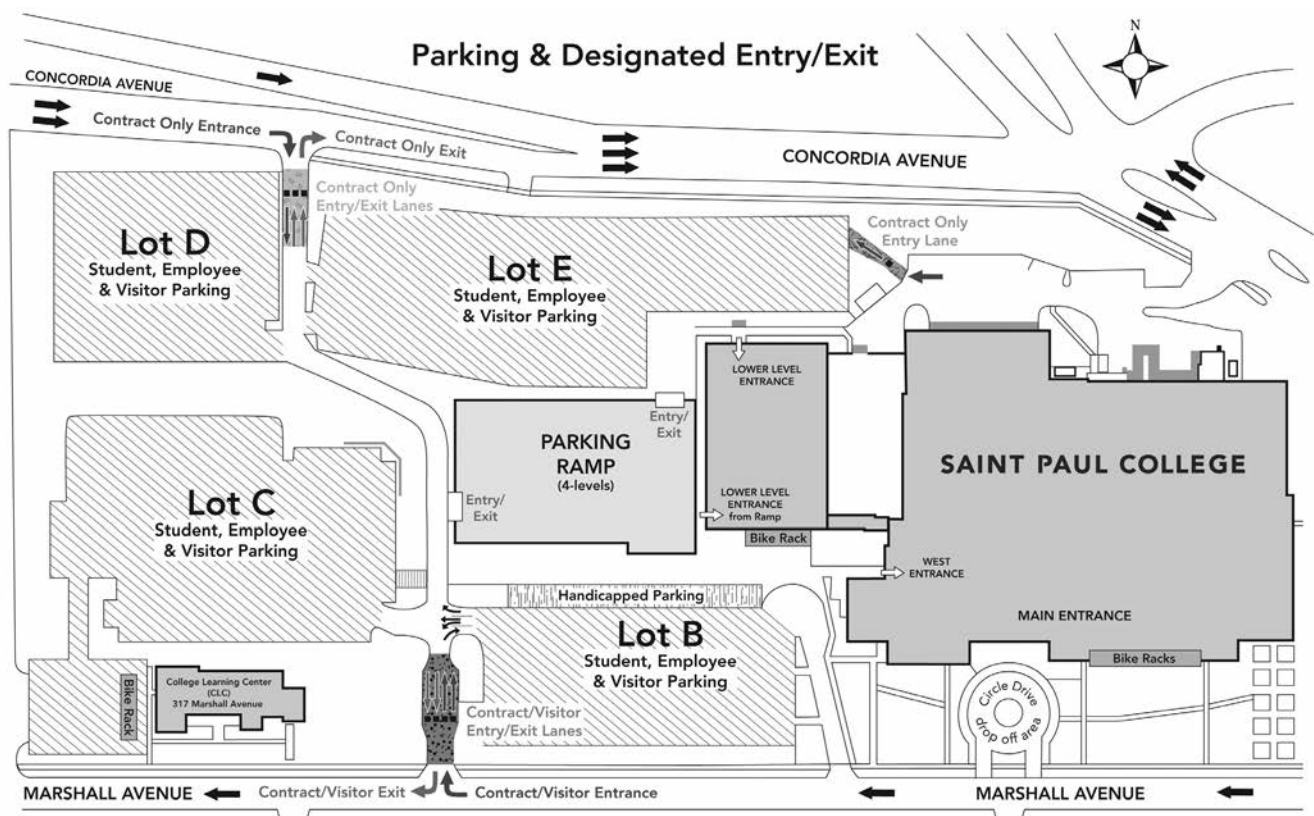
Bus Information

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.



SAINT PAUL COLLEGE
A Community & Technical College
235 Marshall Avenue
Saint Paul, MN 55102
www.saintpaul.edu/parking

Map Legend	
	Contract/Visitor Entry/Exit
	Contract Only Entry/Exit
	Bike Racks
Visitors, students and employees may park in the Parking Ramp and Lots B, C, D & E.	

11/2012

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.

Notes

Notes



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



SAINT PAUL COLLEGE

A Community & Technical College

235 Marshall Avenue TEL 651.846.1600
Saint Paul, MN 55102 FAX 651.846.1703

