

MID-STATE TECHNICAL COLLEGE

2015-2016 STUDENT CATALOG

2015-2016
STUDENT CATALOG





ADAMS COUNTY CENTER

401 North Main
Adams, WI 53910
608.339.3379

MARSHFIELD CAMPUS

2600 West 5th Street
Marshfield, WI 54449
715.387.2538

STEVENS POINT CAMPUS

1001 Centerpoint Drive
Stevens Point, WI 54481
715.344.3063

WISCONSIN RAPIDS CAMPUS

500 32nd Street North
Wisconsin Rapids, WI 54494
715.422.5300

888.575.MSTC
mstc.edu

Wisconsin Relay Service:

711 or 800.947.3529

MSTC does not discriminate on the basis of race, color, national origin, sex, disability, or age in its program, activity, or employment. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Vice President – Human Resources; 500 32nd Street North, Wisconsin Rapids, WI 54494; 715.422.5325.

TABLE OF CONTENTS



It is the responsibility of MSTC students to read and be knowledgeable about the contents of this College Catalog. The information found in this publication is accurate at the time of its printing. MSTC reserves the right to make changes without obligations or further notice.

This catalog is not to be considered a binding contract between Mid-State Technical College and any student. College administration reserves the right to change regulations, fees, or course offerings published in this catalog, or any adopted in the future, during the period of any student's attendance. Changes will be made in the interest of the students and according to existing needs in improving course offerings and student accommodations. As education is a continuing and changing process dependent on varying economic, social, cultural, and technological factors, the board of the Mid-State Technical College District, which governs the college, reserves the right to cancel or suspend any of the various cataloged instructional programs because of inadequate enrollment or to restrict further admittance in programs which are filled to capacity without obligation or prior notice.

ACADEMIC CALENDAR	03
COLLEGE OVERVIEW	
President's Message / About MSTC.....	04
Core Values / Mission / Vision / Core Abilities / Accreditation.....	05
Board of Directors / Strategic Directions / Our Guarantee / Equal Opportunity Policy.....	06
ACADEMIC SUPPORT SERVICES	07
PROGRAMS/APPRENTICESHIPS/ON-DEMAND	
Accounting.....	08
Administrative Professional.....	10
Automotive Technician.....	12
Barber Technologist.....	14
Business Management.....	16
Central Service Technician.....	20
Civil Engineering Technology-Highway Technician.....	22
Clinical Research Coordinator (<i>This program has been discontinued.</i>).....	24
Cosmetology.....	26
Court Reporting.....	28
Criminal Justice-Corrections.....	30
Criminal Justice-Law Enforcement.....	32
Diesel & Heavy Equipment Technician.....	34
Early Childhood Education.....	36
Electrical Power Engineering Technician.....	40
Emergency Medical Technician.....	42
EMT-Paramedic.....	44
Farm Business & Production Management.....	46
Farm Operation.....	18
Gerontology.....	50
Health and Wellness Promotion.....	52
Health Informatics and Information Management.....	54
Industrial Mechanical Technician.....	56
Instrumentation & Controls Engineering Technology.....	58
IT Network Specialist.....	60
IT Software Developer.....	62
Machine Tool Technician.....	64
Marketing.....	66
Medical Assistant.....	68
Medical Coder.....	70
Nursing.....	72
Nursing Assistant.....	76
Office Support Specialist.....	78
Paramedic Technician.....	80
Pharmacy Technician.....	84
Phlebotomy Technician.....	86
Practical Nursing.....	88
Process & Biorefinery Technology.....	92
Renewable Energy Specialist.....	94
Respiratory Therapist.....	96
Server Automation and Mobile Technology Synchronization.....	98
Solar Electric Technician.....	100
Supervisory Management.....	102
Surgical Technologist.....	104
Sustainable Heating & Cooling Technician.....	106
Urban Forestry Technician.....	108
Welding.....	110
Apprenticeship/Individualized Technical Studies.....	112
On-demand Options.....	113
• Barber/Cosmetology Instructor	
• Criminal Justice-Law Enforcement 520 Academy	
• Criminal Justice-Law Enforcement Certification Track-DAAT	
• Criminal Justice-Law Enforcement Certification Track-Firearms	
• Criminal Justice-Law Enforcement Certification Track-Traffic	
• EMT-Advanced	
• EMT-Intermediate	
• Fire Service Training	
COURSE DESCRIPTIONS	114
GENERAL EDUCATION COURSES	167
PERSONAL & PROFESSIONAL ENRICHMENT COURSES	172
STUDENT HANDBOOK	185
ADMINISTRATIVE & INSTRUCTIONAL STAFF	202
INDEX	206
MSTC PROGRAMS BY LOCATION	208

2015-2016 ACADEMIC CALENDAR

August 17

First Semester Begins

September 7

Labor Day
No classes

September 28

College-wide Inservice
(No classes before 5:00 p.m.)

October 20

Advising for Registration
(No classes before 5:00 p.m.)

October 22

Spring 2016 Registration Opens

November 26 - 27

Thanksgiving
No classes

December 15

End of First Semester

December 16

Graduation
Marshfield, Stevens Point, Wisconsin Rapids

December 16 - January 10

Winter Recess
No classes

January 11

Second Semester Begins

March 19 - 27

Spring Recess
No classes

April 20

Advising for Registration
(No classes before 5:00 p.m.)

April 22

Fall 2016 Registration Opens

May 11

End of Second Semester

May 12

Graduation
Marshfield, Stevens Point, Wisconsin Rapids





Sue Budjac, Ed.D.
President
Mid-State Technical College

PRESIDENT'S MESSAGE

Welcome to Mid-State Technical College! Our primary focus is your success. Mid-State Technical College (MSTC) prepares our students with the skills and knowledge they need to be successful in our local workforce. We offer more than 100 academic degrees, diplomas, and certificates for people of all walks of life, including recent high school graduates, those wishing to transfer to a four-year college or university, and individuals wanting to change or enhance careers.

MSTC employees are here to ease your transition to higher education and keep you pointed toward achievement and completion. Our student-centered approach is evident in smaller classes, one-on-one assistance, and flexible scheduling. We invest in innovative technologies and state-of-the-art facilities to sustain a welcoming and supportive learning environment.

MSTC partners with local businesses and continuously responds to changing employer needs. We deliver hands-on and cutting edge curriculum essential to business growth. Students dive right into the classes that give them the real-world skills they need to be successful in their chosen career. MSTC's long established reputation for excellent instruction is substantiated by the fact that nearly 9 out of 10 graduates have jobs within six months of graduation.

This catalog is designed to help you choose the classes and programs that are best suited for you. Your options at MSTC are many; think of this catalog as your roadmap to achieving your educational goals. If you are still weighing your higher education options, I invite you to visit any of our MSTC locations to learn more.

I wish you much success as you work toward your future!



ABOUT MSTC

The need for "industrial" education was recognized early in central Wisconsin. Even before Wisconsin's Legislature created the system of Public Industrial, Commercial, Continuation, and Evening Schools in 1911, local programs were being offered in Marshfield and Stevens Point. In 1961 the Legislature changed the names of the schools to "Schools of Vocational, Technical, and Adult Education." The Area Vocational, Technical, & Adult Education District 14 (later to become Mid-State Technical College District) was formally organized and incorporated on July 1, 1967.

Today, Mid-State Technical College (MSTC) is a leading provider of technical and higher education offering over 100 career opportunities through associate degrees, technical diplomas, and technical certificates. A leader in the development of the central Wisconsin workforce and economy, MSTC provides a dynamic learning environment that helps students reach their personal and career goals. Thousands of graduates have already turned to MSTC first when it comes to education and jobs.

Graduates from MSTC are in demand. In fact, many employers recruit MSTC students before they graduate. Why? Because MSTC instructors know firsthand what's required on the job, understand employers' needs, and stay current with business and industry standards. Employers trust that MSTC graduates have the education and skills that make them highly desirable, job-ready employees.

- On average 88% of graduates are employed within six months after graduation.
- 98% of graduates are satisfied with their MSTC education & training.

Student-focused and community based, MSTC serves a resident population of 165,000 in central Wisconsin. The college operates campuses in Marshfield, Stevens Point, and Wisconsin Rapids and a learning center in Adams. MSTC serves all or portions of eight counties in central Wisconsin: Adams, Clark, Jackson, Juneau, Marathon, Portage, Waushara, and Wood.

CORE VALUES

The college and all of our employees are guided by a set of core values that have been part of MSTC's past and will continue to be part of its future. We are convinced that the key to creating a truly great organization is an intense focus on the values that guide our actions.

As members of the Mid-State Technical College community, we work diligently to weave our core values into the fabric of everything we do to positively impact those who seek our services. Mid-State Technical College and its employees operate with allegiance to the following core values.

STUDENT CENTEREDNESS

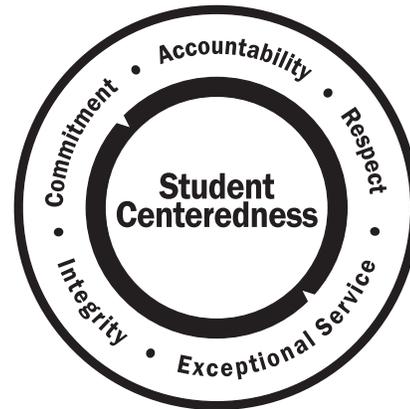
We value and respect all students as unique individuals. We assist students in identifying and realizing their educational goals and work hard to create an accessible and dynamic learning environment. Providing students with a positive educational experience is of vital interest to each of us.

COMMITMENT

Our actions reflect our dedication to the people we serve and to the college. The success of MSTC depends upon our skills and abilities to communicate, promote, and support our educational offerings, and to meet the current and emerging needs of our students and other stakeholders. We invest the time and energy necessary to fulfill the mission of the college and to provide a healthy and safe environment.

ACCOUNTABILITY

We understand and value our individual roles in the college. We take responsibility for processes, decisions, and outcomes within our scope of influence. We work hard to communicate effectively and apply our expertise to continuously improve our systems and strengthen organizational performance.



RESPECT

We embrace individual differences and diverse opinions and work together to create a mutually supportive environment. We treat each other with dignity and appreciate the contributions of all employees.

INTEGRITY

Our actions and words signal the institutional integrity of our college. We embrace honesty and base our decision making on a combination of high ethical standards and practical considerations.

EXCEPTIONAL SERVICE

We create and improve relationships through positive interactions with others. United by a common purpose to support and improve learning, we collaborate to provide lifelong learning opportunities that enhance the well-being of individuals, businesses, and communities.

MISSION

Mid-State Technical College transforms lives through the power of teaching and learning.

VISION

Mid-State Technical College is the educational provider of first choice for its communities.

CORE ABILITIES

In addition to specific job-related training, MSTC has identified a set of core abilities which are transferable and go beyond the content of a specific course. The college supports the following skills for all graduates of MSTC:

- Act with Integrity
- Communicate Effectively
- Demonstrate Effective Critical and Creative Thinking
- Demonstrate Global Social Awareness

ACCREDITATION

Mid-State Technical College is accredited by the Higher Learning Commission, under the Academic Quality Improvement Program (AQIP). Under AQIP, colleges maintain accreditation by building a culture of continuous improvement. MSTC was first accredited by the Higher Learning Commission in 1979 and has been continually accredited since that time. MSTC was accepted into the AQIP process in 2002.

You may contact our accreditor at the Higher Learning Commission of the North Central Association of Colleges and Schools, 230 South LaSalle Street, Suite 7-500, Chicago, Illinois 60604-1411 (Phone: 800.621.7440 / 312.263.0456, Fax: 312.263.7462, Website: info@hlcommission.org).

Accreditation means that MSTC has been found to meet the Commission's requirements and criteria and that there are reasonable grounds for believing that it will continue to do so. Accreditation provides public certification of acceptable institutional quality and an opportunity and incentive for MSTC to continuously improve.

COLLEGE OVERVIEW

BOARD OF DIRECTORS

Mid-State Technical College functions within the Wisconsin Technical College System (WTCS). The MSTC District includes all or portions of eight counties in central Wisconsin: Adams, Clark, Jackson, Juneau, Marathon, Portage, Waushara, and Wood counties.

The college operates under the direction of the MSTC District Board of Directors, which includes two employers, two employees, three members-at-large, an elected official, and a school district administrator.

Members of the board are appointed by a board appointment committee composed of the county board chairpersons of the counties included, all or in part, in the MSTC District. The chairperson of the most populous county (Wood County) serves as chairperson of the appointment committee. Representation on the board is apportioned throughout the district as set forth in section 38.08(1)(a), paragraph 2 of Wisconsin statutes, 1982.



*Seated (left to right):
Charles Spargo, Lynneia
Miller, Peggy Ose, and
Betty Bruski Mallek*

*Standing (left to right):
Terry Reynolds, Justin
Hoerter, Joseph Kinsella,
Robert Beaver, and
Patrick Costello*

OUR GUARANTEE

Customer satisfaction is important to us. We are proud of the education and training we offer, and we have confidence in our support services and the quality of our programs. If graduates do not find employment in their field within six months of graduation from Mid-State Technical College, or if your employer feels you lack certain skills, we'll retrain you for up to six free credits. To qualify, you have to actively pursue and not turn down employment and job placement assistance or your employer needs to certify that after 90 days of employment you lack entry-level job skills.

2015-2017 STRATEGIC DIRECTIONS

Within the context of our mission and shared core values, MSTC's Board of Directors ensures decisions are guided through evidence of institutional effectiveness by focusing on the following strategic directions over the next three calendar years.

- Provide responsive, flexible, high-quality education to foster student achievement and lifelong learning.
- Break down barriers to maximize access, learning, diversity, and student success.
- Deliver dynamic, relevant solutions to present and future workforce needs to enhance our reputation as a recognized community leader, partner, and resource.
- Embrace organizational effectiveness through the pursuit of excellence and continuous improvement.

EQUAL OPPORTUNITY, HARASSMENT, AND AFFIRMATIVE ACTION

Mid-State Technical College is committed to complying with state and federal equal opportunity laws and regulations and does not discriminate in its services, employment programs, and/or its educational programs and activities. Discrimination and harassment by supervisors, co-workers, students, non-employees on the basis of race, sex, national origin, sexual orientation, age, religion, disability, or other protected class is prohibited by the College. This policy is intended to comply with all applicable state and federal laws, as well as express the College's commitment to the principles of equal opportunity for all.

The College will seek continuous compliance with the following laws: Titles VI and VII of the Civil Rights Act of 1964 as amended; Equal Pay Act of 1963 as amended; Age Discrimination in Employment Act of 1967 and 1975; Title IX of Education Amendments of 1972; Section 504 of the Rehabilitation Act of 1973; the Vocational Education Amendments of 1976; Civil Rights Restoration Act of 1987; Civil Rights Act of 1991; Carl D. Perkins Vocational Career and Technical Education Act; Americans With Disabilities Act of 1990 as amended; Wisconsin Fair Employment Law; Chapter 38.23 of the Wisconsin State Statutes; and the Office for Civil Rights Guidelines for the Elimination of Discrimination and Denial of Services on the Basis of Race, Color, National Origin, Sex and handicap in Vocational Programs (34 CFR, Part 100, Appendix B).

Inquiries regarding this equal opportunity/non-discrimination policy may be directed to:

Richard O'Sullivan, Equal Opportunity Officer
Mid-State Technical College • 500 32nd Street North, Wisconsin Rapids, WI 54494 • 715.422.5325

A copy of this policy is available online at mstc.edu/about/administrative-policies or by contacting Human Resources.

LEARNING COMMONS

We're here to help! The Learning Commons, with locations in Adams, Marshfield, Stevens Point, and Wisconsin Rapids, can help you prepare for your future. Each location offers day and evening hours. Hours of operation vary by location. Learning Commons services are tuition-free to individuals 18 and over. There are no admission requirements or tuition costs for Learning Commons services. You decide when to begin, develop your own attendance schedule, and work at your own pace to reach your goals.

Pre-Program Preparation

If your goal is to enter a program at a technical college or university, Learning Commons instructors can help you develop your academic skills to meet program and entrance requirements.

- Enroll in preparatory classes to improve math, communication, and reading skills
- Improve study skills, time management, and test-taking skills
- Use free materials and resources in the Learning Commons labs
- Continue to receive assistance with coursework in the Learning Commons after you have enrolled in MSTC courses

GED/HSED Preparation

Learning Commons instructors help you prepare for GED/HSED testing.

- Use free study materials and computer resources to prepare for the General Education Development (GED®) Certificate or High School Equivalency Diploma (HSED)
- Instructors guide you through the testing process
- Learn job-seeking skills

English Language Learner Classes

English Language Learner (ELL) classes help individuals learn English and how to navigate in American society.

- Develop reading, writing, speaking, and listening skills
- Gain skills to enter the workforce
- Assistance in preparing for the U.S. citizenship exam
- Help entering college or a program

Program Student Support

Having a problem with a paper for class? Don't understand the assignment? Need some additional help with math? The Learning Commons is here for you.

- Assistance with general academic tasks
- Instruction in note-taking, summarizing, reference skills, and time management
- Help with resumes and job seeking/employability skills
- Build basic computer skills

CAREER AWARENESS AND ASSESSMENT

Career Awareness is a tuition-free, non-credit class that allows adults the chance to explore a wide variety of careers that match their personal and professional skills, interests, and values. This is an active and dynamic opportunity to participate in activities designed to help answer the questions:

- Who am I?
- Where am I going?
- How do I get there?

Individual student results are matched with occupations and labor market research to assist the student in determining a career path that is right for them. Classes are offered every semester at all college locations and online. You must be 18 years of age or older to participate unless special permission is obtained. Special accommodations can be made for students with disabilities.

LIBRARY

Students are encouraged to investigate and use the many resources and services available in the MSTC library. The library is primarily an educational and informational facility. Various book, periodical, and audiovisual collections, as well as electronic resources, support the program areas and allow for cultural enrichment.

SKILLS ASSISTANCE

Study Skills (10835103) is a course designed to promote student success at MSTC. Students are introduced to study skills, time management, and health and relationship skills. The instructor shares information about the various resources available at MSTC to assist students in their efforts. Intro to Reading and Study Skills (10838105) is also offered.

TESTING CENTER

The Testing Center, located in Room T113 at Wisconsin Rapids Campus, provides a number of services on all campuses, including Accuplacer testing and General Educational Development (GED®)/High School Equivalency Diploma (HSED) testing.

Accuplacer is offered at each location. To pay for and schedule testing, stop by an MSTC location or call:

Adams County Center.....	608.339.3379
Marshfield Campus	715.387.2538
Stevens Point Campus.....	715.344.3063
Wisconsin Rapids Campus	715.422.5301

GED/HSED testing is available at each campus for individuals who wish to earn a General Educational Development (GED) certificate or High School Equivalency Diploma (HSED). To learn more about GED and HSED options, visit the Learning Commons for the mandatory Orientation Session. Once orientation is complete, testing is scheduled at ged.com.

Free preparation assistance for Accuplacer and GED/HSED testing is available in the Learning Commons at each location.

Testing accommodation services are available on each campus for eligible students with disabilities referred by Disability Services staff. In Wisconsin Rapids, eligible students referred for testing with accommodations may schedule appointments in the Testing Center by stopping in or calling 715.422.5443 or may work with their instructors to set up testing appointments outside of class. Testing accommodations at locations without a Testing Center are coordinated by the instructor, student, and Disability Services staff on an individual basis.

Assistive technology services are available on each campus for students with disabilities referred by Disability Services.

ACCOUNTING

Program Code 10-101-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

According to the Bureau of Labor Statistics, careers in accounting are expected to grow faster than average through 2022. The Bureau estimates an 11% growth rate with over 204,600 new accounting jobs in that period. An increase in the number of businesses, changing financial laws and corporate governance regulations, and increased accountability for protecting an organization's stakeholders will drive growth.

The Accounting program provides the educational background and training required for entry-level positions in business, industry, and public accounting firms. Job experience and continuing education provide the necessary qualifications for advanced positions in the field of accounting.

Accounting program courses are transferable to baccalaureate degree programs through a variety of transfer agreements.

RELATED PROGRAMS

Administrative Professional
Business Management
Court Reporting
IT Network Specialist
IT Software Developer
Marketing
Office Support Specialist
Supervisory Management

PROGRAM OUTCOMES

Employers will expect you, as an Accounting graduate, to be able to:

- Process financial transactions throughout the accounting cycle
- Analyze financial and business info to support planning and decision-making
- Perform payroll preparation, reporting, and analysis tasks
- Perform cost accounting preparation, reporting, and analysis tasks
- Perform individual tax accounting preparation, reporting, and analysis tasks
- Identify internal controls to reduce risk
- Adapt accounting processes and principles to a government and/or not-for-profit environment
- Design an accounting system for a business

The Wisconsin Technical College System (WTCS) has implemented a requirement that all technical colleges measure program outcomes attained by students. This requirement is called Technical Skills Attainment (TSA). The main objective of TSA is to ensure graduates have the technical skills needed by employers. Accounting program outcomes are measured in the following TSA-designated courses: Income Tax Accounting, Accounting II, Payroll Accounting, Accounting: Computerized, Managerial Accounting, Governmental Accounting, Cost Accounting, and Accounting Systems.

CAREER OPTIONS

Accounting Assistant
Accounts Payable Specialist
Accounts Receivable Specialist
Cost Accountant
Financial Accountant
Information Systems Assistant
Junior Accountant
Payroll Accountant

POTENTIAL FOR ADVANCEMENT

Controller
 Department Manager
 Entrepreneur
 General and Senior Accountant
 Information Systems Specialist
 Internal Auditor
 Management Accountant
 Office Manager
 Payroll Coordinator
 Public Accountant
 Tax Accountant

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Accounting program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
 Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494

PROGRAM PROGRESSION

In order to maintain a passing status and progress in the program, students must:

- Repeat TSA-designated Accounting courses that are co-requisites or pre-requisites before progressing to next level Accounting courses. This does not include Accounting I, II, or III.
- Receive a grade of "C" or better in all TSA-designated Accounting courses required for graduation. This does not include Accounting I, II, or III.

CURRICULUM

Term		(16 credits)
10101111	Accounting I	4
10101123	Income Tax Accounting	3
10102101	Intro to Business	3
10103106	Microsoft Office-Introduction	3
10801136	English Composition 1 -or-	
10801195	Written Communication	3

Term		(16-17 credits)
10101113	Accounting II	4
10101120	Payroll Accounting	3
10101129	Accounting: Computerized	3
10801196	Oral/Interpersonal Communication -or-	
10801198	Speech	3
10804107	College Mathematics	3
	-or-	
10804118	Intermediate Algebra with Applications	4
	-or-	
10804189	Introductory Statistics	3

Term		(16 credits)
10101115	Accounting III	4
10101128	Managerial Accounting	3
10101131	Governmental Accounting	3
10102103	Business Law & Ethics -or-	
10102104	Business Law	3
10809143	Microeconomics -or-	
10809144	Macroeconomics -or-	
10809195	Economics	3

Term		(19 credits)
10101117	Accounting IV	4
10101125	Cost Accounting	3
10101130	Accounting Systems	3
10809166	Intro to Ethics: Theory & Application	3
10809122	Intro to American Government -or-	
10809172	Introduction to Diversity Studies -or-	
10809196	Intro to Sociology	3
10809188	Developmental Psychology -or-	
10809198	Intro to Psychology	3

Total Credits 67-68

Please Note:

- The Accounting program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

ADMINISTRATIVE PROFESSIONAL

Program Code: 10-106-6

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

If you are eager to assume a wide range of tasks and responsibilities that require creativity, flexibility, problem-solving, and teamwork, consider a career as an administrative professional!

As an administrative professional, you may not only prepare correspondence and work with customers, but you may also supervise the work of other clerical staff, prepare research reports, assist teammates with fundamental computer knowledge, and handle private or confidential records. The Administrative Professional program develops these abilities while emphasizing software applications, customer service skills, and the expert operation of a variety of office technology and equipment.

Administrative support and customer service positions are forecast to be in the top 25 of occupations with the most job openings through 2022.

RELATED PROGRAMS

Accounting
Business Management
Court Reporting
IT Network Specialist
IT Software Developer
Marketing
Office Support Specialist
Supervisory Management

PROGRAM OUTCOMES

Employers will expect you, as an Administrative Professional graduate, to be able to:

- Demonstrate effective workplace communications
- Apply technology skills to business and administrative tasks
- Perform routine administrative procedures
- Manage administrative projects
- Maintain internal and external relationships
- Model professionalism in the workplace

The Wisconsin Technical College System (WTCS) has implemented a requirement that all technical colleges measure program outcomes attained by students. This requirement is called Technical Skills Attainment (TSA). The main objective of TSA is to ensure graduates have the technical skills needed by employers. Administrative Professional program outcomes are measured in the TSA-designated courses Administrative Office Procedures and Supervised Field Experience.

CAREER OPTIONS

Administrative Professional
Customer Service Representative
Legal Secretary
Medical Secretary
Microcomputer Operator
Office Assistant
Program Assistant
Receptionist
Secretary

POTENTIAL FOR ADVANCEMENT

Administrative Services Supervisor
 Administrative Support Supervisor
 Executive Secretary
 Field Office Coordinator
 Medical Records Technician
 Office Manager
 Records Supervisor

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Administrative Professional program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
 Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

**Mid-State Technical College
 Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494**

PROGRAM PROGRESSION

In order to maintain a passing status and progress in the program, students must:

- Receive a grade of "C" or better in Administrative Office Procedures and Supervised Field Experience to graduate.

CURRICULUM

Term		(18-19 credits)
10102101	Intro to Business	3
10103106	Microsoft Office-Introduction	3
10106157	Document Formatting	3
10106160	Proofreading & Editing	3
10801136	English Composition 1 -or-	
10801195	Written Communication	3
10804107	College Mathematics	3
	-or-	
10804118	Intermediate Algebra with Applications	4
	-or-	
10804189	Introductory Statistics	3

Term		(18 credits)
10103114	Word-Intermediate	1
10103124	Excel-Intermediate	1
10103134	Access-Intermediate	1
10106140	Business Information Management	3
10106150	Administrative Office Procedures	3
10106172	Digital Communication Technology	3
10801196	Oral/Interpersonal Communication -or-	
10801198	Speech	3
10102130	Career Development -or-	
10801199	Employment Strategies	3

Term		(18 credits)
10102120	Customer Service Management	3
10106162	Graphics & Print Media	3
10106180	Advanced Software Applications	3
10809122	Intro to American Government -or-	
10809196	Intro to Sociology	3
10809143	Microeconomics -or-	
10809144	Macroeconomics -or-	
10809195	Economics	3
	Elective	3

Term		(14 credits)
10104107	Social Media Marketing	3
10106135	Supervised Field Experience	2
10809166	Intro to Ethics: Theory & Application	3
10809172	Introduction to Diversity Studies	3
10809188	Developmental Psychology -or-	
10809198	Intro to Psychology	3

Total Credits 68-69

Please Note:

- The Administrative Professional program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

AUTOMOTIVE TECHNICIAN

Program Code 32-404-2

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

If you have good mechanical skills and enjoy working with cars, you may find a career as an automotive technician very rewarding.

Learn to diagnose, service, and repair automobile and light truck mechanical and electrical problems. You will learn to use a variety of hand and power tools as well as complex electrical diagnostic equipment in identifying and performing repair tasks.

Emphasis is on the areas of engine and transmission repair, drive train and axles, suspension and steering systems, brakes, electrical systems, heating and air conditioning, and engine performance.

RELATED PROGRAMS

Diesel & Heavy Equipment Technician
Industrial Mechanical Technician

PROGRAM OUTCOMES

Employers will expect you, as an Automotive Technician graduate, to be able to:

- Diagnose, service, and repair automotive systems
- Proficiently operate tools and equipment common to the industry
- Practice safety procedures
- Apply theoretical concepts to mechanical repair
- Comply with regulations that impact the automotive service industry

CAREER OPTIONS

Automotive Parts Salesperson
Automotive and Truck Technician
Maintenance Technician
Service Station Technician
Small Engine Technician

POTENTIAL FOR ADVANCEMENT

Parts Manager
Service Manager
Service Writer
Shop Owner
Shop Supervisor or Lead Technician

Potential advancement generally requires further education.



ADMISSIONS PROCEDURES

To apply to the Automotive Technician program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494

Protective Clothing

Students are required to purchase three "MSTC Automotive Student" uniform shirts. These shirts are available the first week of class for approximately \$30 each. Students are also required to wear safety glasses at all times in the lab. Acquisition of safety glasses is the responsibility of the student.

Required Equipment

Students need to purchase a Fluke 177 or Fluke 88V multimeter and test lead set before the start of the second term. They are available for purchase through the campus Bookstore for approximately \$270.

CURRICULUM

Term		(17 credits)
10605108	Intro to Electronics	2
10804107	College Mathematics	3
32404307	Suspension & Steering Systems	5
32404308	Braking Systems-Automotive	5
32404375	Service Practices in Transportation Industry	2

Term		(15 credits)
10462116	Metal Fabrication	3
32404311	Electrical Systems-Auto	5
32404324	Engine Repair	5
32404330	Applied Fluid Power	2

Term		(17 credits)
10462114	Metals & Machining	3
31809351	Applied Human Relations	2
32404323	Automatic Transmissions	5
32404325	Manual Transmissions	5
32806351	Applied Science	2

Term		(18 credits)
10102130	Career Development -or-	
10801199	Employment Strategies	3
32404312	Advanced Electrical Systems-Auto	5
32404320	Hybrid Systems-Auto	1
32404322	Heating/Air Conditioning	3
32404326	Fuel Control System-Auto	5
32404376	Advanced Drivability-Auto	1

Total Credits 67

Please Note:

- The Automotive Technician program has an August start date. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

BARBER TECHNOLOGIST

Program Code 30-502-5

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Barber Technologist program is a part-time program with a combination of online and face-to-face classes, as well as hours in MSTC's on-campus salon.

This program meets the Wisconsin state barbering requirement of 1,000 hours of training and is regulated by the Wisconsin Department of Safety and Professional Services. Federal regulations require programs for licensure must use clock hours in all areas of administering Title IV federal financial aid. Financial aid and scholarships are available to those who qualify.

Students must purchase a kit comprised of required tools and supplies. The cost of the kit is approximately \$1,100.

RELATED PROGRAMS

Cosmetology



PROGRAM OUTCOMES

Employers will expect you, as a Barber Technologist graduate, to be able to:

- Apply safety and infection control procedures
- Identify hair and scalp disorders
- Perform haircutting services
- Demonstrate shaving and other facial hair removal techniques
- Perform male facial procedures
- Perform texture services
- Perform hair color services
- Demonstrate hairstyling and finishing techniques
- Adhere to the current Wisconsin administrative codes and statutes for barbers
- Demonstrate interpersonal skills for success

CAREER OPTIONS

Barber
Barber Retail/Wholesale Sales

POTENTIAL FOR ADVANCEMENT

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Barber Technologist program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:

- Reading-Accuplacer score of 55
- Sentence Skills-Accuplacer score of 60
- Arithmetic-Accuplacer score of **

*(**Course prerequisite for Barber Client Services 1 requires students to earn a score of 34 or higher on the arithmetic portion of the Accuplacer. Students who do not score 34 on the math Accuplacer will be required to pass ABE Math V/VI course prior to enrolling in Barber Client Services.)*

- ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494

FUNCTIONAL ABILITIES

Students must have good fine motor skills, especially finger dexterity, as well as good hand/eye coordination and 20/40 vision in best eye with 70 degrees to each side for peripheral vision, as determined by the Department of Transportation.

PROGRAM PROGRESSION AND COMPLETION

In order to progress in and successfully complete the program, students must repeat core courses (courses numbered 30-502-xxx) not completed with a grade of "C" or better prior to progressing in core courses or other courses with co- or prerequisites.

Please note that the ability to repeat courses is dependent upon availability of courses. Students may be required to apply for program re-entry in order to repeat courses.

CURRICULUM

Term		(8 credits)
30502701	Haircutting for Barbers	4
30502702	Facial Hair & Skin Care Services for Barbers	2
30502703	Introduction to the Barber Profession	2

Term		(8 credits)
30502704	Haircoloring for Barbers	2
30502705	Chemical Texturing for Barbers	2
30502706	Hairstyling for Barbers	2
30502730	Barber Client Services 1	2

Term		(9 credits)
30502722	Business Management for Barbers	1
30502731	Barber Client Services 2	2
30502732	Barber Client Services 3	2
30502733	Barber Client Services 4	2
30502734	Barber Client Services 5	2

Total Credits 25

Please Note:

- The Barber Technologist program is a part-time hybrid program.
- Students must purchase a kit of required tools and supplies.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

BUSINESS MANAGEMENT

Program Code 10-102-3

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Business Management program provides a broad business background that enables its graduates to work within operational units in a variety of businesses.

The program develops general technical and interpersonal skills related to management, finance, operations, customer service management, ethics, employment law, international business, and software that are required by service, retail, government, and manufacturing organizations. Additionally, students may choose a specialization track for emphasis. Specializations available include entrepreneurship and health care.

Courses are offered during both day and evening hours. Program courses are transferable to baccalaureate degree programs through a variety of transfer agreements.

RELATED PROGRAMS

Accounting
Administrative Professional
Court Reporting
IT Network Specialist
IT Software Developer
Marketing
Office Support Specialist
Supervisory Management

PROGRAM OUTCOMES

Employers will expect you, as a Business Management graduate, to be able to:

- Plan the operations of a business across functional areas
- Organize resources to achieve the goals of the organization
- Direct individuals and/or processes to meet organizational goals
- Control business processes

The Wisconsin Technical College System (WTCS) has implemented a requirement that all technical colleges measure program outcomes attained by students. This requirement is called Technical Skills Attainment (TSA). The main objective of TSA is to ensure graduates have the technical skills needed by employers. Business Management program outcomes are measured in the TSA-designated course Business Decision Making.

CAREER OPTIONS

Account Executive
Account Manager
Assistant Manager
Business Entrepreneur
Customer Service Representative
Department Supervisor
Floor Supervisor
Health Care Supervisor
Human Resource Assistant
Inside Sales or Account Representative
Insurance Representative



CAREER OPTIONS CONTINUED

Lead Worker
Office Manager
Operations Manager
Production Supervisor
Project Manager
Purchasing Assistant
Service Manager
Store Leader
Team Leader
Technical Recruiter

POTENTIAL FOR ADVANCEMENT

Business Manager
Department Manager
General Manager
Health Services Manager
Human Resource Manager
Production Manager
Retail Manager

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Business Management program, please submit the following documents to the MSTC Admissions Office:

- Complete an MSTC application form and return it with the \$30 non-refundable application fee.
- Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

- Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494

PROGRAM PROGRESSION

In order to maintain a passing status and progress in the program, students must:

- Receive a grade of "C" or better in Business Decision Making course to graduate.

CURRICULUM

Term	(16 credits)
10102101 Intro to Business	3
10102147 Principles of Management	3
10103106 Microsoft Office-Introduction	3
10104102 Marketing Principles	4
10801136 English Composition 1 -or-	
10801195 Written Communication	3

Term	(16-17 credits)
10101111 Accounting I	4
10102110 Employment Law	3
10196193 Human Resource Management	3
10801196 Oral/Interpersonal Communication -or-	
10801198 Speech	3
10804107 College Mathematics	3
-or-	
10804118 Intermediate Algebra with Applications	4
-or-	
10804189 Introductory Statistics	3

Term	(18 credits)
10102103 Business Law & Ethics -or-	
10102104 Business Law	3
10102120 Customer Service Management	3
10102130 Career Development -or-	
10801199 Employment Strategies	3
10102180 International Business	3
10196191 Supervision	3
10809143 Microeconomics -or-	
10809144 Macroeconomics -or-	
10809195 Economics	3

Term	(18 credits)
10101128 Managerial Accounting -or-	
10102117 Business Finance	3
10102131 Entrepreneurial Management	3
10102160 Business Decision Making	3
10809166 Intro to Ethics: Theory & Application	3
10809122 Intro to American Government -or-	
10809172 Introduction to Diversity Studies -or-	
10809196 Intro to Sociology	3
10809188 Developmental Psychology -or-	
10809198 Intro to Psychology	3

Total Credits 68-69

Please Note:

- The Business Management program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

Continued on next page.

BUSINESS MANAGEMENT



BUSINESS MANAGEMENT SPECIALIZATIONS

Prospective students seeking a Business Management associate degree specialization should list it under "Program/Major Choice" on their MSTC Application. Those who wish to declare a specialization after acceptance into the Business Management program should see their counselor. Students pursuing an Entrepreneurship or Healthcare Management specialization will complete courses in the first column in place of the courses in the Business Management program noted in the second column in the charts below. The specialization is indicated as a subplan on your MSTC transcript.

Entrepreneurship Specialization	
Complete These Courses	In Place of These Courses
10145185 Organizing Your Small Business	10102131 Entrepreneurial Management
10145186 Financial Management for Your Small Business	10102117 Business Finance
10145187 Marketing Your Small Business	10104102 Marketing Principles
10145188 Entrepreneurial Service Management	10102120 Customer Service Management
10145189 Writing a Business Plan for Your Small Business	10102131 Entrepreneurial Management
10103124 Excel-Intermediate	

Healthcare Management Specialization	
Complete These Courses	In Place of These Courses
10501101 Medical Terminology	10102110 Employment Law
10501109 Medical Law, Ethics, and Professionalism	10102180 International Business 10105160 Business Law
10530125 Organization of Healthcare	
10530150 Introduction to Health Information Technology	
10102120 Customer Service Management	10102120 Customer Service Management
10102147 Principles of Management	10102147 Principles of Management
10196191 Supervision	10196191 Supervision
10196193 Human Resource Management	10196193 Human Resource Management



CENTRAL SERVICE TECHNICIAN

Program Code 30-534-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

Students are prepared with the knowledge and skills necessary to function as a central service technician. Central service is the hub of all activities involving supplies and equipment for surgery, obstetrics, emergency departments, and other patient care areas. Students learn the principles of standard precautions, asepsis, disinfection, and sterilization procedures. Effective communication is vital within this multi-service area. Central service is located in all health care facilities such as nursing homes, clinics, and hospitals. Patient interaction is minimal within this specialty.

Online instruction, lab, and clinical experience are part of the curriculum. Upon graduation, students are eligible for certification exams.

Students are responsible for transportation to and from classroom, lab, and clinical sites. A minimum of two clinical sites are utilized in the clinical portion of the class.

RELATED PROGRAMS

Medical Assistant
Phlebotomy Technician
Surgical Technologist

PROGRAM OUTCOMES

Employers will expect you, as a Central Service Technician graduate, to be able to:

- Apply knowledge of the different roles and responsibilities of a central service technician
- Apply principles of standard precautions and asepsis
- Perform disinfection and sterilization procedures
- Perform within legal and ethical boundaries
- Effectively communicate with members of the health care team

CAREER OPTIONS

Central Processing or Instrument Technician
Central Service Aide
Central Service Assistant
Central Service Technician
Central Service Technologist
Materials Management
Processing/Distributions Technician

POTENTIAL FOR ADVANCEMENT

Central Service Supervisor
Surgical Technologist

Potential advancement generally requires further education.



ADMISSIONS PROCEDURES

To apply to the Central Service Technician program, please complete the following steps and submit documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.
3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.
4. Submit the Criminal Background Statement of Understanding and Release of Information form.

Mid-State Technical College
Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a central service technician is available at mstc.edu/programs/central-service-technician. Contact the disability services coordinator in the Student Services Office to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check and provide documentation of required healthwork to a private vendor.

Students are responsible for ensuring all requirements remain current during program enrollment.

Clinical sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may not be able to complete clinical courses. MSTC will make two attempts to place a student in an appropriate clinical experience. If MSTC is unable to place the student after two attempts, the student will be withdrawn from the clinical course and will not be able to advance in the program. Contact the program counselor for more details.

CURRICULUM

Term		(19-22 credits)
10103106	Microsoft Office-Introduction	3
10501101	Medical Terminology	3
10501109	Medical Law, Ethics, and Professionalism	2
10501123	Student Success in Allied Health	1
10509102	Human Body in Health and Disease	3
	-or-	
10806177	General Anatomy & Physiology	4
30534301	Central Service	5
10806197	Microbiology	4
	-or-	
31806311	Applied Microbiology	2

Total Credits 19-22

Please Note:

- The core Central Service course (30543301) is offered each spring semester. Other required program courses are available during the fall and spring semesters and some are offered during the summer term. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

PROGRAM PROGRESSION AND COMPLETION

In order to progress in and successfully complete the program, students must:

- Repeat courses not completed with a "C" or better prior to progressing in core courses or other courses with co- or prerequisites
- Receive a grade of "C" or better in all courses required for graduation.

Please note that the ability to repeat courses is dependent upon availability in courses. Students may be required to apply for program re-entry in order to repeat courses within the program's instructional area.

CIVIL ENGINEERING TECHNOLOGY-HIGHWAY TECHNICIAN

Program Code 10-607-4

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The challenging field of engineering is constantly changing and in need of skilled technicians. In this program, you will be trained to work in street and highway construction; waste and water systems; and railroad, pipeline, powerline, dam, canal, and airport construction.

You will work in support of civil engineers, designers, surveyors, and city planners. Comprehensive training in surveying, soils, and construction material testing will be provided. You will also learn about computer drafting, estimating, system design, mapping, and inspection procedures. The Civil Engineering Technology-Highway Technician program prepares you for a variety of positions in state, municipal, and construction fields.

RELATED PROGRAMS

Automotive Technician
Diesel & Heavy Equipment Technician



PROGRAM OUTCOMES

Employers will expect you, as a Civil Engineering Technology-Highway Technician graduate, to be able to:

- Design civil engineering layouts
- Understand safety requirements for the civil engineering field
- Acquire civil engineering technology knowledge to aid in obtaining appropriate certifications
- Exhibit CAD skills
- Apply theoretical and practical concepts to surveying practices
- Work cooperatively in groups
- Acquire working knowledge of instruments used in the civil engineering field
- Understand quantities and materials used in the civil engineering technology area

CAREER OPTIONS

CAD Specialist
Construction Grade Supervisor
Draftsperson
Engineering Specialist and Technician
Environmental/Water Quality Technician
Estimator
Inspector/Quality Control
Materials Technician
Right-of-Way Technician
Sales-Construction (Equipment-Supplies)
Soils Tester
Solid Waster/Landfill Technician
Structural and Utility Technician
Surveyor (Construction-Land)

POTENTIAL FOR ADVANCEMENT

Certified Soil Tester
 Civil Project Engineer
 Construction Supervisor
 Crew Chief (Construction)
 Designer
 Engineering Specification Writer
 Head Estimator
 Land Surveyor
 Lead Inspector
 Senior Draftsperson
 Treatment Land Operator

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Civil Engineering Technology-Highway Technician program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
 Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 65
 - ACT equivalent scores for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494

CURRICULUM

Term	(19 credits)
10103106 Microsoft Office-Introduction	3
10607118 Land Records	1
10607145 Soils	3
10607155 Intro to Surveying	2
10623100 Problem Solving & Critical Thinking	1
10623106 Intro to AutoCAD	2
10801136 English Composition 1 -or-	
10801195 Written Communication	3
10804118 Intermediate Algebra with Applications	4

Term	(17 credits)
10607110 Cemented Aggregate Mixtures	4
10607150 Civil Engineering Drafting I	3
10607156 Surveying-Total Station	3
10804196 Trigonometry with Applications	3
10806154 General Physics 1	4

Term	(17 credits)
10607117 GIS Fundamentals	2
10607160 Civil Engineering Drafting II	2
10607170 Storm Water Management	3
10607171 Highway Surveying	2
10607174 GPS for Surveyors	2
10804195 College Algebra with Applications	3
10809166 Intro to Ethics: Theory & Application -or-	
10809195 Economics	3

Term	(16 credits)
10607149 Highway Bridges, Medians, & Barriers	3
10607166 Construction Estimating & Management	3
10607167 Inspection	2
10607180 Civil Engineering Capstone	2
10801196 Oral/Interpersonal Communication -or-	
10801198 Speech	3
10809188 Developmental Psychology -or-	
10809198 Intro to Psychology	3

Total Credits 69

Please Note:

- The Civil Engineering Technology-Highway Technician program has an August start date. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

CLINICAL RESEARCH COORDINATOR

This program has been discontinued.

10-558-1

Program and Fees: mstc.edu/programcosts

Starting Salary Six Months After Graduation: mstc.edu/programsalaries

The Clinical Research Coordinator program prepares individuals who have responsibility for first-level integrity of medical research projects, which includes organization, coordination, data collection, recruiting, screening, enrolling and scheduling participants, and ensuring accuracy of documentation which ensures good clinical practice. Clinical research coordinators work under the direct supervision of principal and co-investigators to implement studies according to protocol and regulatory requirements.

Graduates of the Clinical Research Coordinator program may be eligible for professional certification after a year of work experience.

RELATED PROGRAMS

Health Informatics and Information Management
Nursing
Respiratory Therapist



PROGRAM OUTCOMES

Employers will expect you, as a Clinical Research Coordinator graduate, to be able to:

- Coordinate research participant activities
- Obtain, document and verify study data, and resolve data discrepancies
- Understand, implement, and document activities related to Good Clinical Practices (GCP), Good Laboratory Practices (GLP), and International Committee on Harmonization Guidelines (ICH)
- Interact with regulatory agencies and sponsors
- Understand research protocol
- Assist in the design and implementation of a research study
- Prepare study documents and trial applications
- Conduct data collection for feasibility studies
- Assist in the development and management of a research study budget
- Prepare documents for quality assurance and other audits
- Gather and prepare preliminary research information for writing teams

CAREER OPTIONS

Clinical Research Coordinator
Clinical Trial Coordinator
Data Coordinator
Medical Research Coordinator
Research Study Coordinator
Research Trial Coordinator

POTENTIAL FOR ADVANCEMENT

Clinical Research Associate
Clinical Research Studies Manager
Senior Clinical Research Coordinator

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Clinical Research Coordinator program, please complete the following steps and submit documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:

- Reading-Accuplacer score of 55
- Sentence Skills-Accuplacer score of 60
- Arithmetic-Accuplacer score of 34
- ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.
4. Submit the Criminal Background Statement of Understanding and Release of Information form.

Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a clinical research coordinator is available at mstc.edu/programs/clinical-research-coordinator. Contact the disability services coordinator in the Student Services Office to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check and provide documentation of required healthwork to a private vendor.

Students are responsible for ensuring all requirements remain current during program enrollment.

Clinical sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may not be able to complete clinical courses. MSTC will make two attempts to place a student in an appropriate clinical experience. If MSTC is unable to place the student after two attempts, the student will be withdrawn from the clinical course and will not be able to advance in the program. Contact the program counselor for more details.

PROGRAM PROGRESSION AND COMPLETION

In order to progress in and successfully complete the program, students must:

CURRICULUM

Term	(15 credits)
10103106 Microsoft Office-Introduction	3
10501101 Medical Terminology	3
10530150 Introduction to Health Information Technology	2
10558101 Intro to Clinical Research	3
10806177 General Anatomy & Physiology	4

Term	(15 credits)
10196192 Managing for Quality	3
10558103 Epidemiology	3
10558104 Legal & Regulatory Research Compliance	3
10801136 English Composition 1 -or-	
10801195 Written Communication	3
10804189 Introductory Statistics	3

Term	(18 credits)
10152105 Database Management	3
10501108 Pharmacology for Allied Health	2
10530132 Health Data Analysis	3
10558109 CRC Lab & Clinical Procedures	3
10801197 Technical Reporting	3
10806197 Microbiology	4

Term	(16-18 credits)
10501109 Medical Law, Ethics, and Professionalism	2
-or-	
10809166 Intro to Ethics: Theory & Application	3
10558105 Clinical Research Management	3
10558106 Genetics	3
10558107 Clinical Research Coordinator Practicum	2
-or-	
10558110 CRC Clinical Experience	3
10809122 Intro to American Government -or-	
10809172 Introduction to Diversity Studies -or-	
10809196 Intro to Sociology	3
10809188 Developmental Psychology -or-	
10809198 Intro to Psychology	3

Total Credits 64-66

Please Note:

- The Clinical Research Coordinator program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability and term of program entry.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

- Repeat courses not completed with a "C" or better prior to progressing in core courses or other courses with co- or prerequisites
- Receive a grade of "C" or better in all courses required for graduation.

Please note that the ability to repeat courses is dependent upon availability in courses. Students may be required to apply for program re-entry in order to repeat courses within the program's instructional area.

COSMETOLOGY

Program Code 31-502-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Cosmetology program combines the theoretical concepts and practical instruction you need to work as a cosmetologist upon successful completion of the state practitioner's licensing examination. The Wisconsin Department of Safety & Professional Services licenses this program.

Learn hair cutting, styling, coloring, permanent waving, and chemical hair relaxing. You will also receive instruction in sanitation and safety, facial and scalp treatments, barbering, state law, make-up, pedicuring, manicuring, and caring for wigs and hair pieces.

Most classes are offered in a face-to-face format. Theory of General Science is offered only in an online format. Work on mannequins, other students, and in an on-campus salon completes the practical component of your training.

Students must purchase a kit of required tools and supplies. The cost of the kit is approximately \$1,700 and must be purchased for use on the first day of class.

Students who successfully complete the program will meet the Wisconsin requirement of 1,550 hours of theoretical and practical instruction. Federal regulations require programs for licensure must use clock hours in all areas of administering Title IV federal financial aid. Financial aid and scholarships are available to those who qualify.

RELATED PROGRAMS

Barber Technologist
Barber/Cosmetology Instructor

PROGRAM OUTCOMES

Employers will expect you, as a Cosmetology graduate, to be able to:

- Apply safety and sanitation procedures
- Adhere to the current Wisconsin administrative codes and statutes for cosmetology
- Demonstrate interpersonal skills for success
- Perform haircutting services
- Perform shampoo services
- Perform skin care services
- Perform texture services
- Perform hair color services
- Demonstrate hairstyling and finishing techniques
- Perform nail services
- Develop strategies to market products and services

CAREER OPTIONS

Barber
Competition Stylist
Cosmetic Sales
Cosmetologist
Distribution Sales
Esthetician
Field Technician
Hair Coloring Technician and Hair Design
Make-up Artist
Merchandiser
Nail Technician and Pedicurist
Perm Technician
Receptionist
Salon Coordinator and Stylist
Shipboard Stylist
Skin Specialist



POTENTIAL FOR ADVANCEMENT

Instructor
 Motion Picture Make-Up or Hair Designer
 Platform Artist
 Research Technician
 Salon Manager
 State Board Examiner

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Cosmetology program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
 Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of **

*(**Course prerequisite for Salon Services 1 requires students to earn a score of 34 or higher on the arithmetic portion of the Accuplacer. Students who do not score 34 on the math Accuplacer will be required to pass ABE Math V/VI course prior to enrolling in Salon Services 1.)*

- ACT equivalent scores for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494

FUNCTIONAL ABILITIES

Students must have good fine motor skills, especially finger dexterity, as well as good hand/eye coordination and 20/40 vision in best eye with 70 degrees to each side for peripheral vision, as determined by the Department of Transportation.

PROGRAM PROGRESSION AND COMPLETION

In order to progress in and successfully complete the program, students must repeat core courses (courses numbered 31-502-xxx) not completed with a grade of "C" or better prior to progressing in core courses or other courses with co- or prerequisites.

Please note that the ability to repeat courses is dependent upon availability of courses. Students may be required to apply for program re-entry in order to repeat courses.

CURRICULUM

Term	(15 credits)
31502316 Theory of General Science	1
31502334 Hairstyling	3
31502335 Haircutting	3
31502336 Chemical Texture Services	3
31502337 Nail Technology	1
31502338 Salon Services I	1
31502347 Haircolor	3

Term	(14 credits)
31502340 Facials	1
31502342 Capstone Experience	3
31502343 Salon Services II	4
31502344 Salon Services III	4
31502348 Saturday Salon Services	2

Term	(6 credits)
31502349 Summer Salon Services IV	3
31502350 Summer Salon Services V	3

Total Credits 35

Please Note:

- The Cosmetology program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- Students must purchase a kit of required tools and supplies. The cost of the kit is approximately \$1,700 and must be purchased for use on the first day of class.
- Students who do not score 34 on the math Accuplacer test may be admitted to the program but will be required to pass ABE Math V/VI prior to beginning Salon Services I.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Courses 31502316 is available only online.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

COURT REPORTING

Program Code 10-106-1

**2014-2015 Estimated Tuition and Fees: Contact Lakeshore Technical College
Median Salary Six Months After Graduation: mstc.edu/programsalaries**

You've seen high-profile trials with a person keying the testimony into a stenograph machine or read the scrolling captions for the hearing impaired on your TV screen. The person recording the spoken words at speeds ranging from 180 to 225 words a minute is a court reporter.

If you're an excellent listener, enjoy keyboarding, have strong language and communications skills, and are committed to accuracy and confidentiality, a career in court reporting may be a perfect fit for you. You'll need to hear, speak, see, and use both hands to manipulate a computer keyboard and stenograph machine. Students are required to rent a stenograph machine and laptop computer through the rental program available at Lakeshore Technical College (LTC).

The Court Reporting program is certified by the National Court Reporters Association (NCRA).

Core program courses are offered via video conference hosted by Lakeshore Technical College and are supported by select classes available in the MSTC District.

RELATED PROGRAMS

Accounting
Administrative Professional
Business Management
IT Network Specialist
IT Software Developer
Marketing
Office Support Specialist
Supervisory Management

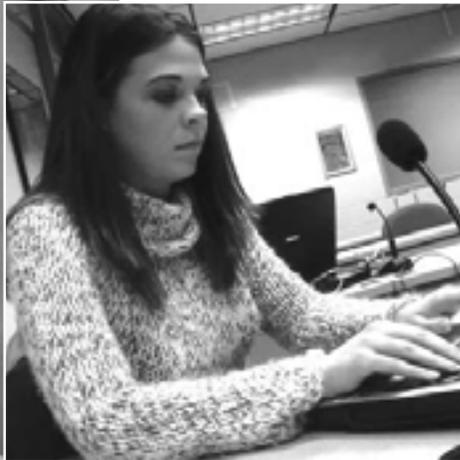
PROGRAM OUTCOMES

Employers will expect you, as a Court Reporting graduate, to be able to:

- Develop proficiency in machine shorthand using real-time theory
- Develop a personal dictionary and read, translate, and edit transcripts using CAT (computer-assisted transcription) software
- Produce salable transcripts on a real-time translation system
- Demonstrate knowledge of proper reporting procedures and responsibilities for freelance and official reporting
- Demonstrate knowledge of legal and medical concepts and terminology
- Demonstrate knowledge of the professional reporting organizations and methods of gaining certification as a registered professional reporter

CAREER OPTIONS

Freelance Reporter
Legislative Reporter
Official Court Reporter in the Court System
Scopist



GRADUATION REQUIREMENT

Three, 5-minute timings must be passed in each of the following categories with a minimum of 95 percent accuracy:

- Two-voice testimony @ 225 wpm
- Jury charge @ 200 wpm
- Literary @ 180 wpm

Judicial Reporting Procedures and Judicial Reporting Internship must be taken within 18 months of graduation.

ADMISSIONS PROCEDURES

To apply to the Court Reporting program, please submit the following documents to Lakeshore Technical College:

1. Complete a WTCS application form and return it with the \$30 non-refundable application fee. Check is payable to LTC.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 70
 - Arithmetic-Accuplacer score of 50
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.
4. Program Advising Session.
5. Notification of Laptop/Steno Rental Requirement form.
6. Authorization to Release Confidential Information for Shared Programs form.
7. Upon receipt of the above materials, you will be accepted to Lakeshore Technical College. LTC will then notify you of additional program requirements.

Lakeshore Technical College
Admissions
1290 North Avenue
Cleveland, WI 53015-1414
888.GO TO LTC • 888.468.6582

Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494

CURRICULUM

Term		(15 credits)
10170106	Realtime Reporting 1	5
10170144	Realtime Reporting Orientation	1
10170160	Legal Terminology	1
10170184	English for Realtime Reporters	1
10170804	Realtime Reporting 1 Lab	1
10801195	Written Communication	3
10809198	Intro to Psychology	3
Term		(17 credits)
10170105	Realtime Reporting 2	5
10170159	Realtime Reporting Technology	2
10170805	Realtime Reporting 2 Lab	1
10801196	Oral/Interpersonal Communication -or-	
10801198	Speech	3
10809122	Intro to American Government -or-	
10809172	Introduction to Diversity Studies	3
10809196	Intro to Sociology	3
Term		(2 credits)
10170108	Realtime Reporting Speed Development	2
Term		(16 credits)
10170109	Literary 1-Advanced	2
10170128	Jury Charge 1-Advanced	2
10170156	Testimony 1-Advanced	3
10170809	Literary 1 Lab-Advanced	1
10170828	Jury Charge 1 Lab-Advanced	1
10170859	Testimony 1 Lab-Advanced	1
10804106	Intro to College Math -or-	
10804123	Math w/ Business Apps	3
10806112	Principles of Sustainability	3
10809144	Macroeconomics -or-	
10809195	Economics	3
Term		(15 credits)
10170111	Literary 2-Advanced	2
10170129	Jury Charge 2-Advanced	2
10170141	Court Reporting Procedures	2
10170145	Court Reporting Internship	1
10170157	Testimony 2-Advanced	3
10170171	Medical Reporting & Terminology	2
10170811	Literary 2 Lab-Advanced	1
10170829	Jury Charge 2 Lab-Advanced	1
10170857	Testimony 2 Lab-Advanced	1
Total Credits 65		

Please Note:

- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

CRIMINAL JUSTICE-CORRECTIONS

Program Code 10-504-2

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

From correctional institutions to community corrections agencies, trained corrections graduates are in demand in the state and across the country. As a student in the Criminal Justice-Corrections program, you will learn the operations and management of correctional institutions, probation/parole, correctional law, and emergency response. Sociology, psychology, communications, mathematics, and economics combine to provide a solid academic foundation.

You may be eligible to enter the jail officer "Certification Track." Successful completion of the Certification Track provides the education and hands-on training required by the Wisconsin Law Enforcement Standards Board to become certifiable as a jail/co-located officer.

Anyone with a felony conviction cannot become a corrections officer without a governor's pardon. A lengthy criminal history or numerous moving traffic violations may hinder opportunities for employment.

The program includes theory, simulated experience, and occupational observation which are combined to help develop knowledgeable, competent, effective, and efficient graduates. Additional emphasis is placed on professionalism, integrity, and quality work performance. A simulated training facility is at Wisconsin Rapids Campus.

Successful graduates will have completed Department of Justice Law Enforcement Standards Board requirements for both Jail Officer and Juvenile Detention Officer.

Mission: The purpose of the Criminal Justice-Corrections program is to provide education, training, and retraining in the field of corrections. The program is designed to enhance opportunities for securing employment, ensure that labor force skills remain abreast of rapidly changing advancements, and encourage the pursuit of further education.

RELATED PROGRAMS

Criminal Justice-Law Enforcement

PROGRAMS OUTCOMES

Employers will expect you, as a Criminal Justice-Corrections graduate, to be able to:

- Think critically
- Manage emergencies
- Communicate effectively
- Demonstrate professionalism
- Conduct investigations
- Interact with others
- Demonstrate tactical skills (applies to occupational certifications)

CAREER OPTIONS

Correctional Officer
Home Detention Specialist
Juvenile Detention Officer
Psychiatric Care Technician
Shelter Care Worker

There are continual employment opportunities. Due to retirements and career changes, many agencies hire corrections personnel on a regular basis.

POTENTIAL FOR ADVANCEMENT

Administrator
 Juvenile Caseworker
 Supervisor
 Training Officer

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Criminal Justice-Corrections program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
 Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a jail officer is available at mstc.edu/programs/criminal-justice-corrections. Contact the disability services coordinator in the Student Services Office to receive assistance.

PROGRAM PROGRESSION AND COMPLETION

In order to progress in and successfully complete the program, students must:

- Receive a grade of "C" or better in all courses required for graduation. Please note that the ability to repeat courses is dependent upon availability in courses.

CURRICULUM

Term	(17 credits)
10504128	Telecommunications for Corrections 3
10504192	Intro to Corrections 3
10504931	Communication Skills 3
10504932	Adult Supervision 3
10801136	English Composition 1 -or-
10801195	Written Communication 3
10801196	Oral/Interpersonal Communication -or-
10801198	Speech 3

Term	(16-17 credits)
10504112	Court Procedures 3
10504904	Juvenile Law 3
10504933	Correctional Report Writing 3
10504936	Emergency Procedures 3
10804107	College Mathematics 3
	-or-
10804118	Intermediate Algebra with Applications 4
	-or-
10804189	Introductory Statistics 3
10809122	Intro to American Government 3

Term	(18 credits)
10504110	Criminal Justice Service Readiness 2
10504116	Probation & Parole 3
10504144	Wellness in Corrections 3
10504930	Security Procedures 3
10809166	Intro to Ethics: Theory & Application 3
10809188	Developmental Psychology -or-
10809198	Intro to Psychology 3

Term	(17 credits)
10504132	Advanced Relational Communications Skills 3
10504934	Correctional Law & Code 3
10504935	Corrections Summary Assessment 1
10504937	Juvenile Supervision 3
10809172	Introduction to Diversity Studies -or-
10809196	Intro to Sociology 3
	Elective 2

Total Credits 68-69

Please Note:

- The Criminal Justice-Corrections program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

CRIMINAL JUSTICE-LAW ENFORCEMENT

Program Code 10-504-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

Are you considering a challenging career in law enforcement? This program provides you with the fundamentals needed to enter the field of law enforcement. Prepare to meet the multitude of challenges in the performance of law enforcement duties. Emphasis is placed on professionalism, integrity, and quality work performance, with a significant focus on high ethical and moral standards.

You may be eligible to enter the law enforcement "Certification Track." Successful completion of the Certification Track provides the education and hands-on training required by the Wisconsin Law Enforcement Standards Board to become certifiable as a law enforcement officer.

Professional responsibilities of a Criminal Justice-Law Enforcement graduate may include methodical patrol duties, traffic control and accident investigation, criminal investigations, and crisis intervention. Some graduates choose to become involved in civilian law enforcement duties such as record and document maintenance and dispatch or communications center operations.

Anyone with a felony conviction or a domestic abuse conviction cannot become a law enforcement officer without a governor's pardon. A lengthy criminal history, mental illness, lack of physical fitness that prevents the applicant from performing essential job functions, or numerous moving traffic violations may hinder opportunities for employment.

Mission: The purpose of the Criminal Justice-Law Enforcement program is to provide education, training, and retraining in the field of law enforcement. The program is designed to enhance opportunities for securing employment, ensure that labor force skills remain abreast of rapidly changing advancements, and encourage the pursuit of further education.

RELATED PROGRAMS

Criminal Justice-Corrections

PROGRAM OUTCOMES

Employers will expect you, as a Criminal Justice-Law Enforcement graduate, to be able to:

- Communicate effectively
- Conduct investigations
- Demonstrate professionalism
- Demonstrate tactical skills (applies to occupational certifications)
- Interact with others
- Manage emergencies
- Think critically

CAREER OPTIONS

Civilian Law Enforcement Employee
Conservation Enforcement
Correctional Officer
Deputy Sheriff
Homeland Security
Law Enforcement Officer
Park Ranger
Private Security
Public Defender Investigator
State Trooper
Telecommunicator



POTENTIAL FOR ADVANCEMENT

Administration
 Drug Officer
 Investigator
 Safety Officer
 Specialty Officer-Crime Prevention
 Supervisor
 Training Officer

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Criminal Justice-Law Enforcement program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
 Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a law enforcement officer is available at mstc.edu/programs/criminal-justice-law-enforcement. Contact the disability services coordinator in the Student Services Office to receive assistance.

PROGRAM PROGRESSION AND COMPLETION

In order to progress in and successfully complete the program, students must:

- Receive a grade of "C" or better in all courses required for graduation. Please note that the ability to repeat courses is dependent upon availability in courses.

CURRICULUM

Term	(17 credits)
10504151 Tactical Application of Skills & Knowledge-Beginning	2
10504900 Introduction to Criminal Justice	3
10504902 Criminal Law	3
10504903 Professional Communications	3
10504905 Report Writing	3
10801136 English Composition 1 -or-	
10801195 Written Communication	3

Term	(16 credits)
10504108 Intro to Investigation Support Services	3
10504125 Patrol Procedures	2
10504152 Tactical Application of Skills & Knowledge-Intermediate	2
10504904 Juvenile Law	3
10801196 Oral/Interpersonal Communication -or-	
10801198 Speech	3
10809166 Intro to Ethics: Theory & Application	3

Term	(18 credits)
10504110 Criminal Justice Service Readiness	2
10504153 Tactical Application of Skills & Knowledge-Advanced	2
10504906 Criminal Investigation Theory	3
10504907 Community Policing Strategies	3
10504908 Traffic Theory	3
10809122 Intro to American Government Elective	3

Term	(17-18 credits)
10504130 Traffic Theory II	3
10504154 Tactical Application of Skills & Knowledge-Capstone	2
10504901 Constitutional Law	3
10804107 College Mathematics	3
-or-	
10804118 Intermediate Algebra with Applications	4
-or-	
10804189 Introductory Statistics	3
10809172 Introduction to Diversity Studies -or-	
10809196 Intro to Sociology	3
10809188 Developmental Psychology -or-	
10809198 Intro to Psychology	3

Total Credits 68-69

Please Note:

- The Criminal Justice-Law Enforcement program has an August start date. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

DIESEL & HEAVY EQUIPMENT TECHNICIAN

Program Code 32-412-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Diesel & Heavy Equipment Technician program helps you develop the skills you need to be successful in the on- and off-road service industry. Learn to locate and repair mechanical and electrical problems in trucks, buses, construction equipment, farm equipment, and industrial machinery.

Training emphasis is in diesel engine rebuilding, fuel injection systems, chassis and suspension systems, brakes, and electrical systems. You will learn to perform preventive maintenance and troubleshooting procedures, rebuild components, and respond to field service calls.

RELATED PROGRAMS

Automotive Technician
Industrial Mechanical Technician



PROGRAM OUTCOMES

Employers will expect you, as a Diesel & Heavy Equipment Technician graduate, to be able to:

- Practice safe working procedures
- Diagnose, service, and repair diesel powered equipment
- Comply with federal, state, and local regulations
- Proficiently operate tools and equipment common to the industry
- Diagnose, service, and repair electrical systems
- Apply theoretical concepts to mechanical, electrical, and hydraulic repair

CAREER OPTIONS

Agricultural Machinery Technician
Auto Technician
Chassis Repair Technician
Construction and Heavy Equipment Technician
Diesel or Heavy Equipment Technician
Engine Repair Technician
Fleet Maintenance Technician
Heavy Equipment Parts Salesperson
Industrial Equipment Technician

POTENTIAL FOR ADVANCEMENT

Diesel Equipment Superintendent
Equipment Sales and Repair
Field Service Representative
Sales Representative
Shop Supervisor
Specialist-Electrical and Hydraulic
Specialist-Engines, Transmissions-
Differentials, Brakes-Alignment
Truck/Auto Dealer
Truck Fleet Supervisor

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Diesel & Heavy Equipment Technician program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494

Protective Clothing

Students are required to wear school uniform shirts while working in the Diesel Shop. Uniform shirts can be purchased from the Wisconsin Rapids Campus Bookstore. Students are also required to provide and wear leather work shoes with oil-resistant soles.

CURRICULUM

Term	(17 credits)
10462116 Metal Fabrication	3
10605108 Intro to Electronics	2
32404375 Service Practices in Transportation Industry	2
32412308 Braking Systems-Diesel	5
32412309 Suspension & Steering Systems	5

Term	(18 credits)
10102130 Career Development -or-	
10801199 Employment Strategies	3
32412303 Heating / AC-Diesel	3
32412305 Preventive Maintenance-Diesel	1
32412312 Drive Trains	5
32412313 Electrical Systems	5
32412320 Hybrid Systems-Diesel	1

Term	(16 credits)
10462114 Metals & Machining	3
10804107 College Mathematics	3
32412324 Engine Repair	5
32412327 Fuel Systems & Emissions	5

Term	(15 credits)
10462121 Mobile Hydraulics Repair	3
32412310 Engine Performance-Diesel	5
32412311 Advanced Electricity-Diesel	5
32806351 Applied Science	2

Total Credits 66

Please Note:

- The Diesel & Heavy Equipment Technician program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

EARLY CHILDHOOD EDUCATION

Program Code 10-307-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

As the demand for well-trained, early childhood professionals grows, the need for qualified teachers becomes more important. In the Early Childhood Education program, you will learn of the physical, emotional, intellectual, and social development of children. You will work with teachers in early childhood educational settings. This program helps you learn to recognize typical and exceptional patterns of growth through observation, screening, and assessment for infants, toddlers, preschoolers, and school age children. Additionally, the teaching cycle is used to develop creative and educational activities. The Wisconsin Early Learning Standards and the Wisconsin Pyramid Model certificates are embedded in coursework.

You will learn and practice skills that will help you become employable as a child care teacher in group and family child care centers and preschools, or as a teacher aide in public or private kindergartens, special education classes, and primary classrooms. You may also find opportunities as an Early Head Start teacher.

Students enrolling in the Early Childhood Education program will have the opportunity to complete coursework towards specific registry credentials. Classes are offered for those students working towards their credential in Preschool, Infant/Toddler, Inclusion, and Administration. Other credential courses will be offered on a rotating basis.

Students enrolled in practicum courses will combine classroom learning experiences with eight or more hours per week of practical experience in local early childhood centers working with children from infancy through school age.

PROGRAM OUTCOMES

Employers will expect you, as an Early Childhood Education graduate, to be able to:

- Apply child development theory to practice
- Cultivate relationships with children, family, and the community
- Assess child growth and development
- Use best practices in teaching and learning
- Demonstrate professionalism
- Integrate health, safety, and nutrition practices

CAREER OPTIONS

Child Care Center Teacher
 Early Head Start Teacher
 Family Day Care Provider
 Teacher Aide-Elementary School
 (4 and 5 year old Kindergarten)
 Teacher Aide-Exceptional Education Program
 Teacher Aide-Head Start
 Teacher or Teacher Aide in a Pre-School Program



POTENTIAL FOR ADVANCEMENT

Child Care Center Administrator
 Child Care Center Owner
 Enroll in a bachelor's degree program to
 become a DPI Certified Teacher

Potential advancement generally requires further education.

ADMISSIONS REQUIREMENTS

To apply to the Early Childhood Education program,
 please submit the following documents to the MSTC
 Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
 Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.
4. Submit the Criminal Background Statement of Understanding and Release of Information form.

Mid-State Technical College
Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as an early childhood education provider is available at mstc.edu/programs/early-childhood-education. Contact the disability services coordinator in the Student Services Office to receive assistance.

CURRICULUM

Term	(21 credits)
10307148	Foundations of Early Childhood Education 3
10307167	Health, Safety, & Nutrition 3
10307174	Practicum 1 3
10307178	Art Music & Language Arts 3
10801136	English Composition 1 -or- 3
10801195	Written Communication 3
10801196	Oral/Interpersonal Communication -or- 3
10801198	Speech 3
10809172	Introduction to Diversity Studies -or- 3
10809196	Intro to Sociology 3

Term	(15-16 credits)
10307179	Child Development 3
10307188	Guiding Children's Behavior 3
10307192	Practicum 2 3
10804107	College Mathematics 3
	-or-
10804118	Intermediate Algebra with Applications 4
	-or-
10804189	Introductory Statistics 3
10809122	Intro to American Government 3

Term	(18 credits)
10307151	Infant & Toddler Development 3
10307187	Children with Differing Abilities 3
10307194	Math Science & Social Studies 3
10307197	Practicum 3 3
10809188	Developmental Psychology -or- 3
10809198	Intro to Psychology 3
	Elective 3

Term	(15 credits)
10307166	Curriculum Planning 3
10307195	Family & Community Relationships 3
10307198	Administering an Early Childhood Education Program 3
10307199	Practicum 4 3
10809166	Intro to Ethics: Theory & Application -or- 3
10809195	Economics 3

Total Credits 69-70

Please Note:

- The Early Childhood Education program has an August start date. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

Continued on next page.

EARLY CHILDHOOD EDUCATION



PROGRAM PROGRESSION AND COMPLETION

The following requirement must be met in order to progress in the Early Childhood Education program:

A Criminal Background Check (CBC) through the Wisconsin Department of Justice and Wisconsin Department of Health Services/Department of Children and Families/Bureau of Regulation and Licensing must show no record of crimes that would prevent persons from being employed in an early childhood setting licensed by the Department of Health Services/Department of Children and Families/Bureau of Regulation and Licensing. A current list of crimes prohibiting one from being licensed to care for children in Wisconsin can be found at http://dcf.wisconsin.gov/childcare/licensed/cbc/crimes_table.pdf.

In order to progress in and successfully complete the program, students must:

- Repeat courses not completed with a "C" or better prior to progressing in course courses or other courses with co- or prerequisites.
- Receive a grade of "C" or better in all courses required for graduation.

Please note that the ability to repeat course is dependent upon availability in all courses. Students may be required to apply for program re-entry in order to repeat course within the program's instructional area.

PRACTICUM RELATED REQUIREMENT

Prior to placement at a practicum site, students need to pay for a criminal background check (included in fees associated with Practicum 1 and Practicum 3) and provide documentation of required health work to the Mid-State Technical College Early Childhood Education program coordinator.

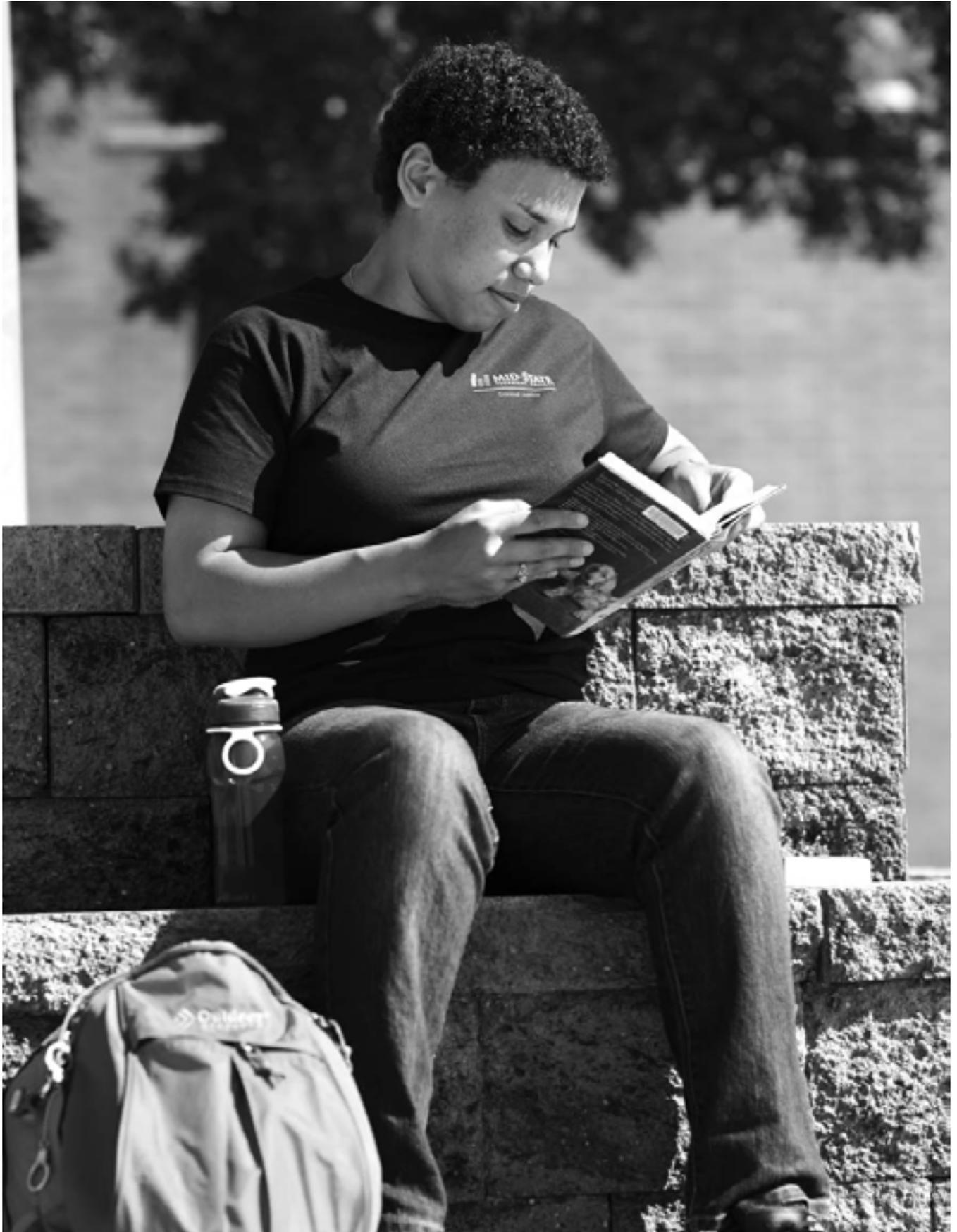
Practicum sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may not be able to complete practicum courses. MSTC will make two attempts to place a student in an appropriate practicum experience. If MSTC is unable to place the student after two attempts, the student will be withdrawn from the practicum course and will not be able to advance in the program. Contact the program counselor for more details.

Prior to beginning a practicum experience students must:

- a. Provide evidence of current CPR/First Aid, including infant and toddler.
- b. Provide evidence of current completion certificates for Shaken Baby Syndrome, Sudden Infant Death Syndrome, Mandated Reporter, and Darkness to Light Trainings.

Note: Throughout each of the four practicum courses students are required to maintain current completion certificates in each of the above listed topic areas. In the event any certificate expires before the student successfully completes each of the four practicum courses, the student will be required to complete the necessary training to obtain a valid completion certificate. Any additional cost incurred to update the certificate(s) is the responsibility of the student.

- c. Complete form DCF/F(CFS/0054) Staff Health Report-Child Care Provider (revision date R02/2009).
- d. Successfully complete Wisconsin Early Learning Standards (WELS)
- e. Meet the identified Functional Abilities necessary to be successful in practicum placement.



ELECTRICAL POWER ENGINEERING TECHNICIAN

Program Code 10-605-5

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

Electrical power engineering is critical to maintaining the infrastructure and health of the nation. Students review fossil, hydro, and nuclear energy sources that supply energy to prime movers and generators. Prime movers are commonly combustion, steam, or hydroelectric turbines. Learn the principles of high voltage energy transmission and how to analyze instrument readings and maintain energy distribution systems.

You will learn how to determine the location of equipment, design wiring layouts, establish the routing of new power lines, and specify materials. You will also learn about wire capacity and sag, guying, support structures, insulators, lightning arresters, switches, circuit breakers, and troubleshooting procedures. Plant loads, lighting, above and below ground systems, transformers, grounding practices, relaying, and protection will also be covered.

RELATED PROGRAMS

Instrumentation & Controls
Engineering Technology



PROGRAM OUTCOMES

Employers will expect you, as an Electrical Power Engineering Technician graduate, to be able to:

- Demonstrate safe work practices around electrical power systems, whether self-directed or operating as part of a team
- Interpret and comply with relevant codes, regulations, and standards
- Identify various electrical power sources and differentiate operational characteristics
- Assess and describe operation of integrated electrical power delivery systems
- Apply power measurement, monitoring, and recording techniques, and explain output

CAREER OPTIONS

Distribution Estimator
Engineering Technician
First Class Meter Person
Instrument Technician
Nuclear Equipment Attendant
Power Plant Operator
Transmission Design Technician

POTENTIAL FOR ADVANCEMENT

Distribution System Designer
District Manager
Electrical Maintenance Supervisor
Engineer Assistant
Substation Manager

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Electrical Power Engineering Technician program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 65
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, colleges or university, and HSED/GED.

Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494

CURRICULUM

Term	(18 credits)
10605105 Electrical Circuits I	3
10605120 Electrical Power Science	3
10623106 Intro to AutoCAD	2
10801136 English Composition 1 -or-	
10801195 Written Communication	3
10804118 Intermediate Algebra with Applications	4
10809188 Developmental Psychology -or-	
10809198 Intro to Psychology	3

Term	(17 credits)
10605110 Electrical Circuits II	3
10605115 Basic Electronics	3
10605122 Electrical Power Generation	4
10623100 Problem Solving & Critical Thinking	1
10801196 Oral/Interpersonal Communication -or-	
10801198 Speech	3
10804196 Trigonometry with Applications	3

Term	(17 credits)
10605117 Programmable Logic Controllers - Beginning	3
10605125 Electrical Power Distribution	4
10605127 Electrical Machines	3
10804195 College Algebra with Applications	3
10806154 General Physics 1	4

Term	(15 credits)
10480100 Alternative Energy Overview	2
10605124 Electrical Power Transmission	3
10605170 Electrical Power System Protective Relaying	4
10809166 Intro to Ethics: Theory & Application	3
10999102 Elective	3

Total Credits 67

Please Note:

- The Electrical Power Engineering Technician program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

EMERGENCY MEDICAL TECHNICIAN

Program Code 30-531-3

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

This course is a 185-hour program based upon the U.S. Department of Transportation Administration/Wisconsin Bureau Local Health Support and EMS curriculum. The Emergency Medical Technician (EMT) program prepares the student with the knowledge and skills to work competently as an entry-level EMT. The program consists of classroom lectures, practical skill labs, laboratory simulations, and pre-hospital clinical experiences.

Upon successful completion of the program the student will be eligible to take the National Registry of EMT's Certification exam.

After successful completion of the National Registry Certification examination, students will be eligible to apply to the State of Wisconsin Department of Health Services for licensure as a Wisconsin EMT.

RELATED PROGRAMS

Central Service Technician
EMT Paramedic
Medical Assistant
Health Informatics and Information Management
Paramedic Technician
Phlebotomy Technician
Practical Nursing
Respiratory Therapist
Surgical Technologist

PROGRAM OUTCOMES

Employers will expect you, as an Emergency Medical Technician graduate, to be able to:

- Demonstrate entry-level knowledge and skills required for State of Wisconsin EMT licensure
- Accurately assess and provide appropriate pre-hospital basic life support treatment to ill and injured patients in a professional and competent manner

CAREER OPTIONS

Ambulance Services
Dispatch Centers
First Responder Units
Hospitals/Emergency Departments
Industry Safety Departments
Rescue Squads
Urgent Care Facilities

POTENTIAL FOR ADVANCEMENT

Ambulance Service Director
Ambulance Service Training Coordinator
EMT-Basic/Intermediate Technician
EMT-Instructor
EMT-Intermediate/Coordinator
EMT-Paramedic
EMT-Shift Supervisor

Potential advancement generally requires further education.



ADMISSIONS PROCEDURES

To apply to the Emergency Medical Technician program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with a \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.
3. Submit the Criminal Background Statement of Understanding and Release of Information form.

**Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494**

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as an emergency medical technician is available at mstc.edu/programs/emergency-medical-technician. Contact the disability services coordinator in the Student Services Office to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check and provide documentation of required healthwork and current health care provider level CPR certification to a private vendor. Students are responsible for ensuring all requirements remain current during program enrollment.

Clinical sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may not be able to complete clinical courses. MSTC will make two attempts to place a student in an appropriate clinical experience. If MSTC is unable to place the student after two attempts, the student will be withdrawn from the course and will not be able to advance in the program. Contact the program counselor for more details.

CURRICULUM

Term	(5 credits)
10531168 EMT Basic	5

Total Credits 5

Prior to beginning a clinical experience in a health care agency or ambulance service, students must:

- a. Hold a current Department of Health Services EMS Training Center Training Permit at the EMT level.
- b. Provide evidence of current CPR at the health care professional level by a CPR organization specified under s. DHS 110.17(1).
- c. Obtain the required uniform for clinical experiences.
- d. Assume responsibility for clinical assignment(s) regardless of time and location, including transportation and other personal arrangements.
- e. Provide evidence of completion of the required health work.

PROGRAM PROGRESSION

In order to be eligible to take the National Registry of Emergency Medical Technician's examination, students must receive a minimum grade of "C" in the Emergency Medical Technician program.

EMT-PARAMEDIC

Program Code 31-531-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The EMT-Paramedic program contains the same core courses (10-531) as the Associate Degree Paramedic Technician program. Completion of the Emergency Medical Technician program is required prior to beginning the Paramedic Technician core courses.

Students learn advanced prehospital skills in the classroom, simulated skills laboratory, hospital, and prehospital clinical settings.

EMT-Paramedic is an 1150-hour program based upon the U.S. Department of Transportation Administration/Wisconsin Bureau Local Health Support and EMS curriculum. The EMT-Paramedic curriculum prepares the student with the knowledge and skills to work competently as an entry-level EMT-Paramedic. The program consists of classroom lectures, practical skills lab, laboratory simulations, and hospital and pre-hospital clinical experiences. The program offers additional certifications in Advanced Cardiac Life Support, Trauma Life Support, and Pediatric Advanced Life Support.

Students who successfully complete the program are eligible to take the National Registry written and practical examinations.

RELATED PROGRAMS

Central Service Technician
Emergency Medical Technician
Health Informatics and Information Management
Medical Assistant
Nursing Assistant
Paramedic Technician
Pharmacy Technician
Phlebotomy Technician
Practical Nursing
Respiratory Therapist
Surgical Technologist

PROGRAM OUTCOMES

Employers will expect you, as an EMT-Paramedic graduate, to be able to:

- Prepare for incident response and EMS operations
- Integrate pathophysiological principles and assessment findings for a variety of patient encounters
- Demonstrate paramedic skills associated with established standards and procedures for a variety of patient encounters
- Communicate effectively with others
- Demonstrate professional behavior
- Meet state and national competency requirements for paramedic credentialing

CAREER OPTIONS

Ambulance Services
Dispatch Centers
First Responder Units
Hospitals/Emergency Departments
Industry Safety Departments
Rescue Squads
Urgent Care Facilities

POTENTIAL FOR ADVANCEMENT

Ambulance Service Manager
EMT-Instructor/Coordinator
EMT-Shift Supervisor
Service Training Coordinator

Potential advancement generally requires further education.



ADMISSIONS PROCEDURES

The admission requirements are identical for the EMT-Paramedic (one-year technical diploma) and the Paramedic Technician (associate degree) program to support articulation between programs.

To apply to the EMT-Paramedic program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.
3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.
4. Submit the Criminal Background Statement of Understanding and Release of Information form.
5. Submit a current Wisconsin EMT license.

**Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494**

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as an EMT-paramedic is available at mstc.edu/programs/emergency-medical-technician. Contact the disability services coordinator in the Student Services Office to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check and provide documentation of required healthwork and current health care provider level CPR certification to a private vendor. Students are responsible for ensuring all requirements remain current during program enrollment.

Clinical sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may not be able to complete clinical courses. MSTC will make two attempts to place a student in an appropriate clinical experience. If MSTC is unable to place the student after two attempts, the student will be withdrawn from the clinical course and will not be able to advance in the program. Contact the program counselor for more details.

CURRICULUM

Term		(20 credits)
10531911	EMS Fundamental	2
10531912	Paramedic Medical Principles	4
10531913	Patient Assessment Principles	3
10531914	Prehospital Pharmacology	3
10531916	Paramedic Cardiology	4
10531917	Paramedic Clinical/Field 1	3
10531918	Advanced Resuscitation	1

Term		(18 credits)
10531915	Paramedic Respiratory Management	2
10531919	Paramedic Medical Emergencies	4
10531920	Paramedic Trauma	3
10531921	Special Patient Populations	3
10531922	EMS Operations	1
10531923	Paramedic Capstone	1
10531924	Paramedic Clinical/Field 2	4

Total Credits 38

Please Note:

- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

Prior to beginning a clinical experience in a health care agency or ambulance service, students must:

- a. Provide evidence of completion of the required health work within one month following the start of EMS Fundamentals (10531911).
- b. Hold a current State of Wisconsin EMT license at the paramedic level.
- c. Hold, or be eligible to hold, a Department of Health Services EMT-Paramedic Training permit.
- d. Provide evidence of current CPR at the health care professional level by a CPR organization specified under s. DHS 110.17(1).
- e. Obtain the required uniform for clinical experiences.
- f. Assume responsibility for clinical assignment(s) regardless of time and location, including transportation and other personal arrangements.

PROGRAM PROGRESSION

In order to maintain a passing status and progress in the EMT-Paramedic program, students must receive a grade of "C" or better in each of the paramedic core courses.

Failure to obtain a grade of "C" in any core course will prevent a student from progressing onto the next course in the sequence until they have retaken the course and achieved a grade of "C" or better.

This requirement also applies to the last class in the sequence, as a grade of "C" or better is required in all courses in order to retain eligibility to take the National Registry exam.

FARM BUSINESS & PRODUCTION MANAGEMENT

Program Code 30-090-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

Designed for those already operating a farm, this program focuses on ways to maximize your profits. Learn management techniques to identify your farm's strengths and weaknesses, how to effectively analyze farm records to uncover hidden opportunities for operation improvements, how to take maximum advantage of farm credit and income tax structures, proven marketing techniques for crops and livestock, and legal procedures for farm acquisition and transfer.

Instruction takes place during the fall and winter months. Topics covered include livestock feeding (emphasis on dairy cattle), breeding, and management, and crop production of alfalfa, soybeans, corn, and small grains, including fertilizers and soil conservation. Individualized attention provides for discussion of specific problems. This program has a six-year period for completion.

Today's successful farmer must keep up with changes and improvements in the farming industry to remain competitive. The Farm Business & Production Management program includes classroom and on-the-farm instruction as well as group tours to give the producer-student a comprehensive, affordable education in production agriculture.

Courses in the program are offered at MSTC's outreach centers, including Adams-Friendship, Almond, Amherst, Auburndale, Chili, and Vesper.

RELATED PROGRAMS

Farm Operation
Urban Forestry Technician



PROGRAM OUTCOMES

As a Farm Business & Production Management graduate, you will be able to:

- Develop a land and nutrient use plan
- Develop a crop management plan
- Identify economic principles and family/business goals
- Identify and plan for emerging farm and agricultural issues and practices
- Implement appropriate farm safety practices
- Develop a farm marketing plan
- Balance rations for farm livestock
- Develop a livestock breeding health and management plan
- Prepare and analyze farm business records

CAREER OPTIONS

Agricultural Manager
Dairy Equipment Service Technician
Farming
Farm Hand
Farm Manager
Feed Sales
Grain Operations
Mill Production Operator
Plant Manager

Careers generally available to students who complete all program requirements.

ADMISSIONS PROCEDURES

To apply to the Farm Business & Production Management program, please submit the following document to the MSTC Admissions Office:

- Complete an MSTC application form and return it with the \$30 non-refundable application fee.

The program requires average to high reading skills.

Students should be able to operate a calculator and understand basic math skills such as percentage, addition, subtraction, multiplication, and division. Students will be asked to draft budgets and calculate costs and returns on different farming enterprises.

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function in farm business & production management is available in the Student Services Office. It is the student's responsibility to notify the disability services coordinator in the Student Services Office to receive assistance.

Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494

CURRICULUM

Term	(18 credits)
30090381 Operating the Farm Business	3
30090382 Soils Management	3
30090383 Crop Management	3
30090384 Livestock Nutrition	3
30090385 Livestock Management	3
30090386 Farm Records & Business Analysis	3

Total Credits 18

Please Note:

- The Farm Business & Production Management program starts from July through November annually. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

FARM OPERATION

Program Code 31-080-4

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

This program is designed for individuals who are farming or planning to farm as well as those involved in other areas of agriculture. Focusing on day-to-day farm operations, with a special emphasis on dairy farms in central Wisconsin, you'll learn about livestock and their products, including livestock diseases and prevention and quality milk and meat production.

Additional topics include soils, crop production and farm chemicals, farmstead and building planning (including electrical systems), and farm maintenance. You'll also learn the latest best business practices for farming, including how to manage farm records for valuable information, farm computerization; and critical need-to-know facts about financial credit, income tax law, and marketing.

Farm Operation is a 36-week program and takes a minimum of two years to complete. The program is offered in two 18-week segments. Each segment is broken into three six-week terms, running from November to April every school year. Classes are scheduled from 10:00 a.m. - 3:30 p.m., allowing time to complete morning and evening farm work at home.

RELATED PROGRAMS

Farm Business & Production Management
Urban Forestry Technician



PROGRAM OUTCOMES

As a Farm Operation graduate, you will be able to:

- Balance rations for farm livestock
- Create and/or revise a business plan
- Implement appropriate farm safety practices
- Evaluate environmental and economic impacts of farm practices
- Discuss implications of farm practices on food safety
- Determine proper procedures used in the establishment, growing, harvesting, and storage of crops
- Plan for operation and maintenance of facilities and equipment
- Set up or modify a livestock management plan
- Identify credit needs and develop a plan for financing the operation

CAREER OPTIONS

Agricultural Manager
Dairy Equipment Service Technician
Farming
Farm Hand
Farm Manager

Careers generally available to students who complete all program requirements.

ADMISSIONS PROCEDURES

To apply to the Farm Operation program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

This program requires average to high reading skills.

Students should be able to operate a calculator and understand basic math skills such as percentage, addition, subtraction, multiplication, and division.

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function in Farm Operations is available in the Student Services Office. It is the student's responsibility to notify the disability services coordinator in the Student Services Office to receive assistance.

Mid-State Technical College
Admissions
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Wisconsin Rapids, WI 54494

CURRICULUM

Term		(5 credits)
10080101	Soils	1
31080316	Livestock Production	1
31080353	Forage Crops	2
31080390	Communications	1

Term		(5 credits)
31080309	Milk & Milk Products	1
31080318	Farm Accounting	1
31080347	Farm Chemicals	1
31080320	Farm Maintenance	2

Term		(5 credits)
10080120	Ruminant Animal Nutrition	2
31080322	Farm Business Planning	1
31080365	Farm Law	1
31080380	Farm Buildings & Dairy Cattle Housing	1

Term		(5 credits)
10080110	Animal Health	1
31080352	Corn, Grain, & Seed Production	2
31080367	Marketing (Including Co-Ops)	1
31080372	Farm Computers	1

Term		(5 credits)
10080102	Soil Fertility & Nutrient Management	2
10080140	Farm Financial Analysis	3

Term		(5 credits)
10080111	Animal Reproduction	2
31080310	Raising Dairy Replacements & Dairy Beef	2
31080376	Economics of Farm Equipment	1

Total Credits 30

Please Note:

- The Farm Operation program has November, January, and February start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

GERONTOLOGY

Program Code 10-544-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Gerontology program prepares you to work in service delivery roles as well as leadership roles in a field which is rapidly growing as the population ages.

The curriculum focuses on the multidisciplinary nature of gerontology, which includes psychological, sociological, and physiological changes that occur during late adulthood, and provides opportunities for practical experience in a broad range of settings.

RELATED PROGRAMS

Health and Wellness Promotion



PROGRAM OUTCOMES

Employers will expect you, as a Gerontology graduate, to be able to:

- Identify and refer older adults to needed services
- Understand complex service and community systems that provide services to older adults
- Integrate knowledge of physical, social, psychological, and spiritual aspects of aging into provision of services
- Demonstrate behaviors and conduct that honor safe, legal, and ethical gerontological practices
- Advocate in the area of aging public policy
- Develop ethical and cultural awareness related to aging
- Communicate effectively

CAREER OPTIONS

Activity/Recreation Coordinator
Advocacy Specialist
Aging Services Provider
Benefits Coordinator
Client Navigation Specialist
Housing/Transportation Specialist
Private Service Provider/Small Business Owner
Program Planner

POTENTIAL FOR ADVANCEMENT

Advocacy/Support Services Organization Specialist
Educator/Trainer
Manager/Administrator
Marketing and Product Development

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Gerontology program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable.

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

**Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494**

Students may be required to complete a background check and health requirements based on the requirements of their internship placement. Internship sites have the right to refuse a student based on inadequate health records and background information. MSTC will make two attempts to place a student in an internship site. If a placement is not made, the student will be notified to withdraw from the internship course. Contact the program counselor for more details.

CREDIT FOR PRIOR LEARNING

Credit for Prior Learning is available for certain courses in the form of high school advanced standing, transfer credit, test credit, military experience, and experiential credit. Contact the program counselor with any questions you may have regarding this option.

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a Gerontology graduate is available at mstc.edu/programs/gerontology. Contact the disability services coordinator in the Student Services Office to receive assistance.

CURRICULUM

Term	(15 credits)
10801136 English Composition 1 -or-	
10801195 Written Communications	3
10809166 Intro to Ethics: Theory & Application	3
10809198 Intro to Psychology	3
10103106 Microsoft Office-Introduction	3
10809130 Intro to Social Gerontology	3

Term	(17 credits)
10543139 Introduction to Dementia	2
10544102 Physical Aspects of Aging	3
10544103 Healthy Aging	3
10801196 Oral/Interpersonal Communication -or-	
10801198 Speech	3
10804107 College Mathematics -or-	
10804189 Introductory Statistics	3
10809188 Developmental Psychology	3

Term	(17 credits)
10501110 Healthcare Communication Strategies	2
10544107 Legal & Financial Issues of Aging	3
10544108 Developing the Gerontology Professional	3
10809131 Death and Dying	3
10809172 Introduction to Diversity Studies	3
Elective	3

Term	(14 credits)
10102101 Intro to Business	3
10544109 Programs & Services in Aging	3
10544111 Gerontology Internship	2
10809132 Generations & Diversity in Aging	3
Elective	3

Total Credits 63

Please Note:

- The Gerontology program has an August start date. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

PROGRAM PROGRESSION AND COMPLETION

In order to progress in and successfully complete the program, students must:

- Repeat courses not completed with a "C" or better prior to progressing in core courses or other courses with co- or prerequisites.
- Receive a grade of "C" or better in all courses required for graduation.

HEALTH AND WELLNESS PROMOTION

Program Code 10-546-2

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Health and Wellness Promotion program prepares graduates with foundational knowledge of health and wellness concepts across the lifespan as well as health and wellness program development and promotion skills.

Graduates are prepared to support individuals, organizations, and communities with health and wellness initiatives. They are prepared to design, develop, and implement health and wellness promotion activities with the goal of maximizing quality of life and reducing or preventing the occurrence and recidivism of illness and injury. Graduates are equipped to support the implementation and maintenance of lifestyle change through educational campaigns incorporating health and wellness promotion concepts and behavior modification interventions.

RELATED PROGRAMS

Gerontology



PROGRAM OUTCOMES

Employers will expect you, as a Health and Wellness Promotion graduate, to be able to:

- Provide evidenced based health and wellness direction to individuals and organizations
- Design, develop, and implement health and wellness promotion activities and campaigns
- Champion behavior modification interventions to promote sustainable health and wellness
- Support the maintenance of health and wellness promotion for individuals and organizations

CAREER OPTIONS

Behavior Modification Specialist
Community Engagement Specialist
Community Health Worker
Fitness Manager
Health Guide
Health Promoter
Health Promotion Coordinator
Prevention Specialist
Well-Being Specialist
Wellness Coach

POTENTIAL FOR ADVANCEMENT

Health Educator
Wellness Supervisor

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Health and Wellness Promotion program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable.

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.
4. Submit the Criminal Background Statement of Understanding and Release of Information form.

Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a Health and Wellness Promotion graduate is available at mstc.edu/programs/health-wellness-promotion. Contact the disability services coordinator in the Student Services Office to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check and provide documentation of required healthwork to a private vendor.

Students are responsible for ensuring all requirements remain current during program enrollment.

Clinical sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may not be able to complete clinical courses. MSTC will make two attempts to place a student in an appropriate clinical experience. If MSTC is unable to place the student after two attempts, the student will be withdrawn from the clinical course and will not be able to advance in the program. Contact the program counselor for more details.

CURRICULUM

Term		(15 credits)
10103106	Microsoft Office-Introduction	3
10544103	Healthy Aging	3
10546100	Essential Concepts for Health and Wellness	3
10801136	English Composition 1 -or-	
10801195	Written Communication	3
10809172	Introduction to Diversity Studies -or-	
10809196	Intro to Sociology	3
Term		(16 credits)
10546101	Nutrition for Healthy Living	3
10546102	Behavior Change for Wellness	3
10801196	Oral/Interpersonal Communication -or-	
10801198	Speech	3
10806177	General Anatomy & Physiology	4
10809198	Intro to Psychology	3
Term		(15 credits)
10102101	Intro to Business	3
10544102	Physical Aspects of Aging	3
10546103	Principles of Physical Conditioning	3
10809166	Intro to Ethics: Theory & Application	3
10809188	Developmental Psychology	3
Term		(15 credits)
10104102	Marketing Principles	4
10546104	Population Health & Wellness	3
10546105	Program Development, Implementation, & Evaluation	3
10546106	Health & Wellness Practicum Elective	2
		3
Total Credits		61

Please Note:

- The Health and Wellness Promotion program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

PROGRAM PROGRESSION AND COMPLETION

In order to progress in and successfully complete the program, students must:

- Repeat courses not completed with a "C" or better prior to progressing in core courses or other courses with co- or prerequisites.
- Receive a grade of "C" or better in all courses required for graduation.

Please note that the ability to repeat courses is dependent upon availability in courses. Students may be required to apply for program re-entry in order to repeat courses within the program's instructional area.

HEALTH INFORMATICS AND INFORMATION MANAGEMENT

Program Code 10-530-2

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Health Informatics and Information Management (HIIM) program prepares individuals to be job-ready for the emerging world of electronic, comprehensive health record management, and application.

Students use computer programs and established methods to securely process, compile, maintain, and report electronic health information data for patient care, reimbursement, facility planning, marketing, risk management, utilization management, quality assessment, and research. Learn to abstract and code clinical data using proper classification systems and analyze health records according to established protocols and standards. HIIM graduates may also be responsible for supervision of the various components of the health information system.

The HIIM program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) under the Associate Degree HIM standards. Graduates are eligible to take the national certification exam offered by the American Health Information Management Association (AHIMA) for the Registered Health Information Technician (RHIT) credential.

RELATED PROGRAMS

Medical Coder *
Nursing
Nursing Assistant
Respiratory Therapist

** Graduates of the Medical Coder technical diploma may advance into the Health Informatics and Information Management program.*



PROGRAM OUTCOMES

Employers will expect you, as a Health Informatics and Information Management graduate, to be able to:

- Demonstrate principles of integrity, ethics, and respect
- Use information technology to securely process, compile, maintain, and report electronic health information data
- Plan for the exchange of health care information by assisting providers in the utilization of portable and other devices for data entry/retrieval or medical decision making
- Abstract and code clinical data using proper classification systems
- Analyze health records according to established protocols and standards
- Supervise various components of the health information system
- Support data collection and reimbursement systems

CAREER OPTIONS

Data Quality Analyst
Diagnosis Related Group (DRG) Coordinator
Health Information Supervisor
Health Information Technician
Medical Records Analyst
Patient Account Representative
Patient Financial Services Specialist
Quality Improvement Analyst

POTENTIAL FOR ADVANCEMENT

Health Information Manager/Director

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Health Informatics and Information Management (HIIM) program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable.

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.
4. Submit the Criminal Background Statement of Understanding and Release of Information form.

**Mid-State Technical College
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Wisconsin Rapids, WI 54494**

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a Health Informatics and Information Management graduate is available at mstc.edu/programs/health-informatics-and-information-management. Contact the disability services coordinator in the Student Services Office to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check and provide documentation of required healthwork to a private vendor.

Students are responsible for ensuring all requirements remain current during program enrollment.

Clinical sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may not be able to complete clinical courses. MSTC will make two attempts to place a student in an appropriate clinical experience. If MSTC is unable to place the student after two attempts, the student will be withdrawn from the clinical course and will not be able to advance in the program. Contact the program counselor for more details.

CURRICULUM

Term		(18 credits)
10103106	Microsoft Office-Introduction	3
10501101	Medical Terminology	3
10530111	Introduction to Health Records	3
10530125	Organization of Healthcare	2
10801136	English Composition 1 -or-	
10801195	Written Communication	3
10806177	General Anatomy & Physiology	4

Term		(18 credits)
10530122	Electronic Health Records	3
10530144	CPT Coding	3
10530161	Legal Aspects of HIIM	2
10530182	Human Disease for the Health Professions	3
10530197	ICD Diagnosis Coding	3
10806179	Advanced Anatomy & Physiology	4

Term		(17 credits)
10152105	Database Management	3
10530132	Health Data Analysis	3
10530160	Performance Improvement for Health Professions	3
10530199	ICD Procedure Coding	2
10801197	Technical Reporting	3
10809188	Developmental Psychology -or-	
10809198	Intro to Psychology	3

Term		(17 credits)
10196191	Supervision	3
10530146	Private and Government Reimbursement	3
10530148	Advanced Coding	2
10530162	HIIM Clinical Experience	3
10809166	Intro to Ethics: Theory & Application	3
10809122	Intro to American Government -or-	
10809172	Introduction to Diversity Studies -or-	
10809196	Intro to Sociology	3

Total Credits 70

Please Note:

- The Health Informatics and Information Management program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

PROGRAM PROGRESSION AND COMPLETION

In order to progress in and successfully complete the program, students must:

- Repeat courses not completed with a "C" or better prior to progressing in core courses or other courses with co- or prerequisites.
- Receive a grade of "C" or better in all courses required for graduation.

Please note that the ability to repeat courses is dependent upon availability in courses. Students may be required to apply for program re-entry in order to repeat courses within the program's instructional area.

INDUSTRIAL MECHANICAL TECHNICIAN

Program Code 10-462-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

Always in demand, industrial mechanical technicians maintain, repair, and operate machinery and equipment in an industrial environment. You will be introduced to industrial mechanical maintenance utilizing both classroom and lab experiences. These include power transmission components and their applications, rigging and material handling techniques, hydraulics/pneumatics, bearings and their uses in industry, welding, machining, lubrication, pipefitting, fluid process pumps, electrical motor controls, and programmable logic controls. You will learn to align, maintain, repair, and replace machine components as well as gain understanding of predictive and preventive maintenance, all with a focus on safety in the workplace.

RELATED PROGRAMS

Machine Tool Technician
Welding



PROGRAM OUTCOMES

Employers will expect you, as an Industrial Mechanical Technician graduate, to be able to:

- Execute the services of an effective preventative maintenance program for complex manufacturing processes and industrial machinery
- Use industry accepted and standardized terminology and methods to communicate effectively with co-workers, supervisors, subordinates, engineers, and vendors
- Diagnose, service, and repair industrial machinery and manufacturing equipment using appropriate tools, materials, and methods
- Select appropriate mathematic and scientific principles to solve complex problems
- Display an ability to work safely and effectively as individuals and as members of cooperative teams
- Plan, specify, and execute the proper installation of new mechanical, hydraulic, and pneumatic equipment into an industrial system
- Choose suitable methods and proper technology to move and position industrial equipment and materials in a safe and effective manner

CAREER OPTIONS

Industrial and Construction Apprenticeships
Machine Operator
Maintenance Technician
Predictive Maintenance Technician
Service Technician

POTENTIAL FOR ADVANCEMENT

Field Service Technician
 Industrial Sales Representative
 Journeyperson: Millwright, Pipefitter, Sheet Metal
 Machine Assembler/Installer
 Maintenance Machinist
 Maintenance Scheduler
 Maintenance Supervisor
 Service Technician Specialist

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Industrial Mechanical Technician program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
 Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Math-Accuplacer score of 65
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494

Protective Clothing

Students are required to wear safety glasses at all times in the lab. Acquiring safety glasses is the responsibility of the student.

CURRICULUM

Term	(17 credits)
10103106	Microsoft Office-Introduction 3
10462102	Bearings & Lubrication Systems 2
10462103	Intro to Mechanical Technology 2
10605105	Electrical Circuits I 3
10801136	English Composition 1 -or- 3
10801195	Written Communication 3
10804118	Intermediate Algebra with Applications 4

Term	(16 credits)
10462107	Industrial Safety 2
10462108	Industrial Automation 3
10462110	Material Handling 2
10801196	Oral/Interpersonal Communication -or- 3
10801198	Speech 3
10804196	Trigonometry with Applications 3
10809188	Developmental Psychology -or- 3
10809198	Intro to Psychology 3

Term	(18 credits)
10462104	Fluid Process Systems 3
10462106	Mechanical Power Transmission 4
10462114	Metals & Machining 3
10605127	Electrical Machines 3
10623104	Mechanical Drafting Concepts 3
10623106	Intro to AutoCAD 2

Term	(17 credits)
10462116	Metal Fabrication 3
10462120	Industrial Hydraulics & Pneumatics 3
10605117	Programmable Logic Controllers - Beginning 3
10806154	General Physics 1 4
10809166	Intro to Ethics: Theory & Application 3
	Elective 1

Total Credits 68

Please Note:

- The Industrial Mechanical Technician program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

INSTRUMENTATION & CONTROLS ENGINEERING TECHNOLOGY

Program Code 10-605-4

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

An indispensable asset in today's high-tech manufacturing environments is a person that can measure and control industrial processes. This program trains you to understand and operate instrumentation that monitors and directs these processes, including pressure, flow, temperature, level, and material composition. Learn to use a variety of different forms of instrumentation, such as electrical, electronic, pneumatic, hydraulic, mechanical, and computerized control devices.

This program teaches you to design, install, calibrate, maintain, troubleshoot, and repair these control systems. You must learn to understand the basic laws of physical sciences and have the mathematical expertise to apply those laws to practical situations.

RELATED PROGRAMS

Electrical Power Engineering Technician

RELATED CERTIFICATES

Advanced Industrial Process Control

Complete this certificate in one year or less. Designed to link machine automation with today's network-style business systems, students learn through hands-on experiences and develop advanced critical thinking skills needed to reduce maintenance downtime and trouble-shooting production stoppages. The training equipment is designed to mirror the processes in food, chemical, and industrial fields.

PROGRAM OUTCOMES

Employers will expect you, as an Instrumentation & Controls Engineering Technology graduate, to be able to:

- Troubleshoot, repair, and calibrate pneumatic/electronic and analog/digital instruments used to measure and control pressure, level, flow, temperature, and pH
- Effectively interpret technical manuals, P + ID's, loopsheets, and cross reference data books to analyze, troubleshoot, and tune automatic process control loops
- Configure digital communication devices
- Solve problems using verbal and written communication skills as an individual or part of a team in supervised and unsupervised conditions
- Operate oscilloscopes, multimeters, manometers, and other related measuring devices
- Calculate values of inputs, setpoints, and outputs of open and closed loops with various values and combinations of proportional, integral, and derivative
- Create two dimensional drawings using AutoCAD
- Design, program, and troubleshoot programmable logic control (PLC) programs

CAREER OPTIONS

Apprenticeship Programs:

Instrumentation, Electrician, Pipefitter

Controls Technician

Instrument Technician

Plant Maintenance Technician



POTENTIAL FOR ADVANCEMENT

Control Systems Technician
 Instrumentation Design Engineer
 Instrumentation Sales and Management
 Instrumentation Start-Up Engineer
 Instrumentation Supervisor
 Journeyperson: Instrument Technician,
 Electrician, Pipefitter

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Instrumentation & Controls Engineering Technology program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
 Minimum scores required:
 - Reading–Accuplacer score of 55
 - Sentence Skills–Accuplacer score of 60
 - Math–Accuplacer score of 65
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

**Mid-State Technical College
 Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494**

CURRICULUM

Term	(18 credits)
10605102 Instrument Mechanics	3
10605105 Electrical Circuits I	3
10623106 Intro to AutoCAD	2
10801136 English Composition 1 -or-	
10801195 Written Communication	3
10804118 Intermediate Algebra with Applications	4
10809188 Developmental Psychology -or-	
10809198 Intro to Psychology	3

Term	(18 credits)
10462114 Metals & Machining -or-	
10462116 Metal Fabrication	3
10605110 Electrical Circuits II	3
10605117 Programmable Logic Controllers - Beginning	3
10623113 3D CAD Software	2
10804196 Trigonometry with Applications	3
10806154 General Physics 1	4

Term	(16 credits)
10605100 Process Measurements I	4
10605115 Basic Electronics	3
10605118 Programmable Logic Controllers - Advanced	3
10804195 College Algebra with Applications	3
10809166 Intro to Ethics: Theory & Application	3

Term	(17 credits)
10605104 Process Measurements II	3
10605116 Instrumentation Electronics	4
10605171 Process Control	4
10801196 Oral/Interpersonal Communication -or-	
10801198 Speech	3
10801199 Employment Strategies	3

Total Credits 69

Please Note:

- The Instrumentation & Controls Engineering Technology program has an August start date. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

IT NETWORK SPECIALIST

Program Code 10-150-2

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

Computers have become essential tools in almost every type of activity in virtually every form of business. To increase efficiency of their use, LANs (Local Area Networks) and WANs (Wide Area Networks) are used to interconnect computers and their supporting devices to enable data and resources to be shared. As a result, network specialists who install and ensure efficient operation of LANs and WANs are in high demand.

The network specialist administers and supports personal computer and network environments that include installation, troubleshooting, analysis, and repair.

RELATED PROGRAMS

Accounting
Administrative Professional
Business Management
Court Reporting
IT Software Developer
Marketing
Office Support Specialist
Server Automation and Mobile
Technology Synchronization *
Supervisory Management

** Graduates of the Server Automation and Mobile Technology Synchronization technical diploma may advance into the IT Network Specialist program.*

PROGRAM OUTCOMES

Employers will expect you, as an IT Network Specialist graduate, to be able to:

- Design and implement the hardware and software aspects of a basic network
- Install, configure, administer, maintain, and enhance a network operating system and client environment
- Analyze and solve network problems using a structured problem solving process
- Demonstrate effective customer service
- Develop and interpret a variety of technical documentation manuals
- Perform professionally and effectively in team, individual, and cross-cultural work settings
- Demonstrate knowledge of appropriate IT concepts and terminology when communicating with clients, co-workers, team members, and management

CAREER OPTIONS

Network Administrator
Network Infrastructure Architect
Hardware Support Specialist
Help Desk Specialist
PC Troubleshooter

POTENTIAL FOR ADVANCEMENT

Information Systems Director
Project Manager
Senior Network Administrator

Potential advancement generally requires further education.



ADMISSIONS PROCEDURES

To apply to the IT Network Specialist program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

**Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494**

CURRICULUM

Term	(16 Credits)
10102101 Intro to Business	3
10103106 Microsoft Office-Introduction	3
10150101 Network Fundamentals	3
10152101 Programming Logic-Beginning	4
10801136 English Composition 1 -or-	
10801195 Written Communication	3

Term	(18-19 Credits)
10150110 IT Troubleshooting-Beginning	3
10150120 Network Administration-Beginning	3
10150165 Network Server Scripting	3
10152170 Systems Analysis	3
10801196 Oral/Interpersonal Communication -or-	
10801198 Speech	3
10804107 College Mathematics	3
-or-	
10804118 Intermediate Algebra with Applications	4
-or-	
10804189 Introductory Statistics	3

Term	(17 Credits)
10150121 Network Administration-Intermediate	3
10150130 Network Operating Systems	3
10150160 Information Security I	3
10154101 IT Customer Support	2
10102130 Career Development -or-	
10801199 Employment Strategies	3
10809143 Microeconomics -or-	
10809144 Macroeconomics -or-	
10809195 Economics	3

Term	(17 Credits)
10150111 IT Troubleshooting-Intermediate	3
10150141 Supervised Field Experience	2
10150161 Advanced Networking Projects	3
10809166 Intro to Ethics: Theory & Application	3
10809122 Intro to American Government -or-	
10809172 Introduction to Diversity Studies -or-	
10809196 Intro to Sociology	3
10809188 Developmental Psychology -or-	
10809198 Intro to Psychology	3

Total Credits 68-69

Please Note:

- The IT Network Specialist program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

IT SOFTWARE DEVELOPER

Program Code 10-152-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

Digital devices are pervasive in all aspects of our lives, both at work and socially. The demand for professionals who possess the ability to design, develop, and implement software to run a broad range of computing devices is at an all-time high. As an IT Software Developer student you will learn the skills to allow you to develop and maintain software and software systems that run on a broad variety of computing devices.

Training prepares you to design and develop programs to meet the broad spectrum of business needs. Courses provide instruction that ensures graduates are able to create software to run on all platforms including network servers, desktop workstations, web pages, web services, and Android and iOS mobile devices. In addition, graduates are well prepared to analyze and design database systems to provide essential business data to consumers.

RELATED PROGRAMS

Accounting
Administrative Professional
Business Management
Court Reporting
IT Network Specialist
Marketing
Office Support Specialist
Supervisory Management

PROGRAM OUTCOMES

Employers will expect you, as an IT Software Developer graduate, to be able to:

- Design and write structured programs in current languages that execute in multi-platform environments
- Analyze and solve business problems using a structured problem solving process
- Perform professionally and effectively in team, individual, and cross-cultural work settings
- Design and implement database systems
- Demonstrate knowledge of appropriate IT concepts and terminology when communicating with clients, co-workers, team members, and management

CAREER OPTIONS

Application Engineer
Data Analyst
Database Programmer
Mobile Applications Developer
Software Technician
Systems Programmer
Web Designer
Web Developer



POTENTIAL FOR ADVANCEMENT

Information Systems Director
 Operations Manager
 Product Development Director
 Senior Software Developer
 Software Architect
 Staff Specialist
 Support Manager
 Systems Specialist
 Webmaster

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the IT Software Developer program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
 Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Math-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494

CURRICULUM

Term	(16 Credits)
10102101 Intro to Business	3
10103106 Microsoft Office-Introduction	3
10150101 Network Fundamentals	3
10152101 Programming Logic-Beginning	4
10801136 English Composition 1 -or-	
10801195 Written Communication	3

Term	(18-19 Credits)
10152102 Programming Logic-Intermediate	4
10152156 Relational Database Development	2
10152170 Systems Analysis	3
10801196 Oral/Interpersonal Communication -or-	
10801198 Speech	3
10804107 College Mathematics	3
-or-	
10804118 Intermediate Algebra with Applications	4
-or-	
10804189 Introductory Statistics	3
10809143 Microeconomics -or-	
10809144 Macroeconomics -or-	
10809195 Economics	3

Term	(16-17 Credits)
10150151 Implementing PC Security	2
-or-	
10150160 Information Security I	3
10152150 Web Programming	3
10152163 Introductory Android Development -or-	
10152164 Introductory iOS Development	3
10152171 Systems Design	3
10154101 IT Customer Support	2
10102130 Career Development -or-	
10801199 Employment Strategies	3

Term	(18 Credits)
10152155 Web Data Management	3
10152165 Intermediate Android Development -or-	
10152166 Intermediate iOS Development	3
10152172 Systems Implementation	3
10809166 Intro to Ethics: Theory & Application	3
10809122 Intro to American Government -or-	
10809172 Introduction to Diversity Studies -or-	
10809196 Intro to Sociology	3
10809188 Developmental Psychology -or-	
10809198 Intro to Psychology	3

Total Credits 68-70

Please Note:

- The IT Software Developer program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

MACHINE TOOL TECHNICIAN

Program Code 32-420-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

At the heart of many industrial processes is machine tool technology. This program trains you for various positions relating to machining in industrial production and maintenance environments. Additional training and experience often lead to supervisory, quality assurance, and tool maker positions. You will learn to shape various materials into intricate, precise, usable parts. You will also learn to work from blueprints and written specifications and to select the proper machinery, materials, and tools to accomplish the task.

This program emphasizes precision measurement with micrometers, dial indicators, optical comparators, and gauges. Machine tools, such as lathes, mills, grinders, computers, and computer-controlled machines (CNC), will be used to produce parts.

RELATED PROGRAMS

Industrial Mechanical Technician
Welding



PROGRAM OUTCOMES

Employers will expect you, as a Machine Tool Technician graduate, to be able to:

- Demonstrate the ability to work safely and cooperatively as individuals and in teams in a classroom/industrial setting
- Use various manual machine tools, construct parts to required specifications following instructions and interpreting blueprints
- Analyze the various programming methods, software, and equipment to machine parts to specifications using CNC machines
- Demonstrate proper machine care while producing precision parts within time estimates
- Use terminology associated with machine tool technology to communicate effectively with co-workers, supervisors, customers, and vendors
- Analyze prints to create parts to specifications using computational skills, proper process planning, and equipment

CAREER OPTIONS

Advanced Machine Operator
CNC Operator
Engineering Prototype Machinist
Job Shop Machinist
Machine Assembler
Machine Maintenance
Machine Operator
Machine Tool Supplies Salesperson
Machinist
Machinist Apprentice
Tool and Die Apprentice
Tool and Die Repairer
Tool Room Machinist

POTENTIAL FOR ADVANCEMENT

CNC Programmer
 Journeyperson Machinist
 Journeyperson Mold Maker
 Journeyperson Tool and Die Maker
 Lead Person
 Machine Set-Up Person
 Manufacturing Engineer
 Quality Control Manager
 Supervisor
 Tool Designer
 Tool Engineer

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Machine Tool Technician program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
 Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494

CURRICULUM

Term	(15-16 credits)
10623104	Mechanical Drafting Concepts 3
10804107	College Mathematics 3
-or-	
32420320	Math for Manufacturing 2
32420301	Intro to Machine Tool 3
32420302	Machine Shop Manual Operations 5
32420312	Metals Science 2

Term	(17 credits)
10462116	Metal Fabrication 3
10623106	Intro to AutoCAD 2
32420303	Manual Lathe & Cutting Fluids 5
32420304	Threads & Mills 5
32420360	Intro to CNC Machining 2

Term	(15 credits)
10102130	Career Development -or-
10801199	Employment Strategies 3
32420305	Advanced Lathes 4
32420306	Advanced Mills 4
32420362	CNC Lathes/Manual Programming 2
32420364	CNC Mills/Manual Programming 2

Term	(14 credits)
10623112	Manufacturing Practices 3
32420307	Non-Traditional Machine Operations 3
32420322	Geometric Dimensioning & Tolerancing 2
32420366	CNC Controls 3
32420368	CAD/CAM 3

Total Credits 61-62

Please Note:

- The Machine Tool Technician program has an August start date. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

Program Code 10-104-3

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Marketing program helps you to develop skills, real-world experience in and outside of the classroom, and solid connections to industry experts. With the ability to create inventive promotional campaigns, effectively brand, construct a dynamic social media presence, and analyze market research data, marketing positions are increasingly critical to business success. Labor market information indicates that the demand for marketing specialists will grow at an even faster rate than in the past. Earning a Marketing degree will give you that unique competitive edge that employers require.

This program utilizes an exciting variety of hands-on activities such as creating, developing, and analyzing marketing research data. Other experiential learning opportunities include the development of integrated and strategic promotional plans, branding, and advertising campaigns for business and industry and nonprofit organizations. Using current technology and tools, Marketing program students also develop selling skills and digital marketing expertise.

Marketing program courses are transferable to baccalaureate degree programs through a variety of transfer agreements.

RELATED PROGRAMS

Accounting
Administrative Professional
Business Management
Court Reporting
IT Network Specialist
IT Software Developer
Office Support Specialist
Supervisory Management

PROGRAM OUTCOMES

Employers will expect you, as a Marketing graduate, to be able to:

- Develop strategies to anticipate and satisfy market needs
- Promote products, services, images, and/or ideas to achieve a desired outcome
- Evaluate information through the market research process to make business decisions
- Prepare selling strategies

The Wisconsin Technical College System (WTCS) has implemented a requirement that all technical colleges measure program outcomes attained by students. This requirement is called Technical Skills Attainment (TSA). The main objective of TSA is to ensure graduates have the technical skills needed by employers. Marketing program outcomes are measured in the TSA-designated course Marketing Decision-Making.

CAREER OPTIONS

Account Representative
Customer Service Representative
Digital Marketer
Digital Sales
Market Researcher
Marketing Coordinator
Public Relations
Retail Sales and Management
Sales Assistant
Social Media Coordinator
Telemarketing Representative



POTENTIAL FOR ADVANCEMENT

Account Manager
 Customer Service Manager
 Digital Sales and Marketing Manager
 Market Research Manager
 Marketing Manager
 Product Manager
 Public Relations Manager
 Retail Management
 Sales Manager
 Social Media Manager
 Telemarketing Manager

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Marketing program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
 Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494

PROGRAM PROGRESSION

In order to maintain a passing status and progress in the program, students must:

- Receive a grade of "C" or better in Marketing Decision-Making to graduate.

Mobile Device Enhancement

To support your hands-on learning and give you an edge in today's digital workplace, Marketing program students are required to purchase a tablet device. Students accepted into the program will receive specific details about purchasing the mobile device (financial aid available).

CURRICULUM

Term	(16 credits)
10102101 Intro to Business	3
10103106 Microsoft Office-Introduction	3
10104102 Marketing Principles	4
10104120 Media Strategies	3
10801136 English Composition 1 -or-	
10801195 Written Communication	3

Term	(17-18 credits)
10101111 Accounting 1	4
10103124 Excel-Intermediate	1
10104105 Selling Principles	3
10104107 Social Media Marketing	3
10801196 Oral/Interpersonal Communication -or-	
10801198 Speech	3
10804107 College Mathematics	3
-or-	
10804118 Intermediate Algebra with Applications	4
-or-	
10804189 Introductory Statistics	3

Term	(19 credits)
10102103 Business Law & Ethics -or-	
10102104 Business Law	3
10102180 International Business	3
10104125 Promotion Principles	4
10104174 Marketing Research	3
10102130 Career Development -or-	
10801199 Employment Strategies	3
10809143 Microeconomics -or-	
10809144 Macroeconomics -or-	
10809195 Economics	3

Term	(16 credits)
10104160 Marketing Decision-Making	4
10104180 E-Commerce Principles	3
10809166 Intro to Ethics: Theory & Application	3
10809122 Intro to American Government -or-	
10809172 Introduction to Diversity Studies -or-	
10809196 Intro to Sociology	3
10809188 Developmental Psychology -or-	
10809198 Intro to Psychology	3

Total Credits 67-68

Please Note:

- The Marketing program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

MEDICAL ASSISTANT

Program Code 31-509-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Medical Assistant program prepares you for a rewarding career working in medical offices and clinics. This career involves assisting in the reception, examination, and treatment of patients. Learn valuable clinical and clerical skills such as scheduling appointments, maintaining medical records, performing various lab procedures, EKGs, injections, and sterilizing equipment. You will receive classroom instruction and clinical practicum at a variety of medical offices and clinics in the area. Students are required to participate in an unpaid practicum.

This program prepares competent entry-level medical assistants in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains. This program is accredited by the Commission on Accreditation of Allied Health Programs (www.caahep.org) upon the recommendation of the Medical Assisting Education Review Board (MAERB).

Commission on Accreditation of Allied Health Education Programs

1361 Park Street, Clearwater FL 33756

Phone: 727.210.2350 • www.caahep.org

As a successful graduate of this program, you are eligible to write one of two National Certification Exams for Medical Assistants. This certification is voluntary.

RELATED PROGRAMS

Health Informatics and Information Management
Phlebotomy Technician
Surgical Technologist

PROGRAM OUTCOMES

Employers will expect you, as a Medical Assistant graduate, to be able to:

- Perform medical office administrative functions
- Provide patient care in accordance with regulations, policies, laws, and patient rights
- Perform medical laboratory procedures
- Demonstrate professionalism in a health care setting
- Demonstrate safety and emergency practices in a health care setting

CAREER OPTIONS

Appointment and Medical Records Clerk
Appointment Secretary
Dental Aide
Medical Assistant
Optometric Assistant
Pharmacy Technician
Physical Therapy Aide
Receptionist

POTENTIAL FOR ADVANCEMENT

Audiology Assistant
Departmental Supervisor
EEG Technician
Emergency Medical Technician
EMG Technician
Histology Assistant
Home Care Aide
In-Service Educator-Medical
Office Manager

Potential advancement generally requires further education.



ADMISSIONS PROCEDURES

To apply to the Medical Assistant program, submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents or select course completion are acceptable alternatives for above scores.

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.
4. Submit the Criminal Background Statement of Understanding and Release of Information form.

Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a medical assistant is available at mstc.edu/programs/medical-assistant. Contact the disability services coordinator in the Student Services Office to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check and provide documentation of required healthwork to a private vendor.

Students are responsible for ensuring all requirements remain current during program enrollment.

Clinical sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may not be able to complete clinical courses. MSTC will make two attempts to place a student in an appropriate clinical experience. If MSTC is unable to place the student after two attempts, the student will be withdrawn from the clinical course and will not be able to advance in the program. Contact the program counselor for more details.

CURRICULUM

Term		(17 credits)
10103106	Microsoft Office-Introduction	3
10501101	Medical Terminology	3
10501108	Pharmacology for Allied Health	2
10509102	Human Body in Health and Disease	3
31509303	Medical Assistant Laboratory Procedures 1	2
31509304	Medical Assistant Clinical Procedures 1	4

Term		(17 credits)
10501109	Medical Law, Ethics, and Professionalism	2
10801136	English Composition 1 -or-	
10801195	Written Communication	3
31509301	Medical Assistant Administrative Procedures	2
31509305	Medical Assistant Laboratory Procedures 2	2
31509306	Medical Assistant Clinical Procedures 2	3
31509307	Medical Office Insurance and Finance	2
31509310	Medical Assistant Practicum	3

Total Credits 34

Please Note:

- The Medical Assistant program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

PROGRAM PROGRESSION

In order to maintain a passing status and progress in the program, students must:

- Repeat courses not completed with a grade of "C" or better prior to progressing in core courses or other courses with co- or prerequisites.
- Receive a grade of "C" or better in all courses required for graduation.

Please note that the ability to repeat courses is dependent upon availability in courses. Students may be required to apply for program re-entry in order to repeat courses within the programs instructional area.

MEDICAL CODER

Program Code 31-530-3

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Medical Coder technical diploma prepares individuals for employment as entry-level medical coders in health care settings such as hospitals, physician offices, long-term care facilities, health plans, and more. Medical coders review medical documentation of health care providers and assign diagnosis and procedure codes for the purposes of billing, quality improvement, statistical reporting, and medical research. Learners are introduced to reimbursement principles and demonstrate proficiency in assigning codes from two different data sets, ICD and CPT, which prepares them for coding across all settings, including hospitals and physician offices. After program completion, graduates may qualify to take the Certified Coding Associate (CCA) credentialing exam through American Health Information Management Association (AHIMA).

RELATED PROGRAMS

Health Informatics and Information Management

**Graduates of the Medical Coder technical diploma may advance into the Health Informatics and Information Management program.*

PROGRAM OUTCOMES

Employers will expect you, as a Medical Coder graduate, to be able to:

- Review clinical documentation and diagnostic results to ensure accurate diagnostic and procedural coding
- Extract data, abstract and apply appropriate clinical codes using proper classification systems accurately.
- Provide charge validation

CAREER OPTIONS

Chargemaster Coordinator
Coding Specialist
Coding Support Specialist
Medical Coder

POTENTIAL FOR ADVANCEMENT

Health Information Technician
Patient Account Representative

Potential advancement generally requires further education.



ADMISSIONS PROCEDURES

To apply to the Medical Coder program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable.

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

**Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494**

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a medical coder is at mstc.edu/programs/medical-coder. Contact the disability services coordinator in the Student Services Office to receive assistance.

PROGRAM PROGRESSION AND COMPLETION

In order to progress in and successfully complete the program, students must:

- Repeat courses not completed with a "C" or better prior to progressing in core courses or other courses with co- or prerequisites.
- Receive a grade of "C" or better in all courses required for graduation.

Please note that the ability to repeat courses is dependent upon availability in courses. Students may be required to apply for program re-entry in order to repeat courses within the program's instructional area.

CURRICULUM

Term	(10 credits)
10530111 Introduction to Health Records	3
10501101 Medical Terminology	3
10806177 General Anatomy & Physiology	4

Term	(12 credits)
10530122 Electronic Health Records	3
10530144 CPT Coding	3
10530182 Human Disease for the Health Professions	3
10530197 ICD Diagnosis Coding	3

Term	(7 credits)
10530146 Private and Government Reimbursement	3
10530148 Advanced Coding	2
10530199 ICD Procedure Coding	2

Total Credits 29

Please Note:

- Medical Coder students may begin coursework in June, August, or January, although not all courses are available each term. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Degree completion time may vary based on student scheduling and course availability
- All course descriptions are found beginning on page 114.

Program Code 10-543-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

As a Registered Nurse (RN) you are a vital member of the health care team. The Associate Degree Nursing (ADN) program prepares you to function with judgment and technical competence in providing care for individual patients, as well as groups of patients. You will gain the knowledge and skills to work competently as a registered nurse. The ADN program provides a balance between knowledge and technical skills in physical and biological sciences, social sciences, and nursing. It also includes classroom discussion, independent learning projects, skills labs, and hands-on clinical experiences in area health care agencies.

MSTC's Nursing program is part of the system-wide curriculum developed by the Wisconsin Technical College System (WTCS). The ADN program offers the option to students to be eligible to take the national licensing test for Licensed Practical Nurse after completion of the first year (32 credits). Students will be eligible to take the licensing exam for Registered Nurse after completion of all 70 credits in the ADN program.

The Nursing program is approved by the Wisconsin Board of Nursing and fully accredited by the Accreditation Commission for Education in Nursing (ACEN). ACEN can be reached for program verification information at:

Accreditation Commission for Education in Nursing (ACEN)

3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326

www.acenursing.org • Phone: 404.975.5000

RELATED PROGRAMS

Central Service Technician
Emergency Medical Technician
EMT-Paramedic
Health Informatics and Information Management
Medical Assistant
Nursing Assistant
Paramedic Technician
Pharmacy Technician
Phlebotomy Technician
Practical Nursing
Respiratory Therapist
Surgical Technologist

PROGRAM OUTCOMES

Employers will expect you, as a Nursing graduate, to be able to:

- Implement one's role as a nurse in ways that reflect integrity, responsibility, ethical practices, and an evolving professional identity as a nurse committed to evidence-based practice, caring, advocacy, and quality care
- Demonstrate appropriate written, verbal, and nonverbal communication in a variety of clinical contexts
- Integrate social, mathematical, physical sciences, pharmacology, and pathophysiology in clinical decision making
- Provide patient centered care by utilizing the nursing process across diverse populations and health care settings
- Minimize risk of harm to patients, members of the health care team and self through safe individual performance and participation in system effectiveness
- Lead the multidisciplinary health care team to provide effective patient care throughout the lifespan
- Use information and technology to communicate, manage data, mitigate error, and support decision making



CAREER OPTIONS

Upon successful completion of licensure examination:
Staff nurse/RN positions in various specialties in hospitals, clinics, nursing homes, and home health care

POTENTIAL FOR ADVANCEMENT

Nurse Educator
Nurse Manager/Administrator
Nurse Practitioner
Public Health Nurse
School Nurse

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Nursing program, please complete the following steps and submit documents to the MSTC Admissions Office:

Step 1:

1. Complete an MSTC Application form and return it with a \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading–Accuplacer score of 95
 - Sentence Skills–Accuplacer score of 103
 - Math–Accuplacer score of 79
 - ACT equivalents for above scores are acceptable.

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.
4. Submit the Criminal Background Statement of Understanding and Release of Information form.

When the requirements for Step 1 are completed, the student will be admitted to the program and may be eligible to apply for financial aid.

CURRICULUM

Required Prior to Beginning

Nursing Courses		(18 credits)
10806177	General Anatomy & Physiology	4
10806179	Advanced Anatomy & Physiology	4
10809188	Developmental Psychology	3
10801136	English Composition 1 -or-	
10801195	Written Communication	3
10806197	Microbiology	4

Recommended Prior to Nursing Courses (14 credits)

10801196	Oral/Interpersonal Communication -or-	
10801198	Speech	3
10809172	Introduction to Diversity Studies -or-	
10809196	Intro to Sociology	3
10809198	Intro to Psychology	3
	Electives	5

Term (9 credits)

10543101	Nursing Fundamentals	2
10543102	Nursing Skills	3
10543103	Nursing Pharmacology	2
10543104	Nursing: Intro to Clinical Practice	2

Term (10 credits)

10543105	Nursing Health Alterations	3
10543106	Nursing Health Promotion	3
10543107	Nursing: Clinical Care Across the Lifespan	2
10543108	Nursing: Intro to Clinical Care Management	2

Term (9 credits)

10543109	Nursing: Complex Health Alterations 1	3
10543110	Nursing: Mental Health and Community Concepts	2
10543111	Nursing: Intermediate Clinical Practice	3
10543112	Nursing Advanced Skills	1

Term (10 credits)

10543113	Nursing: Complex Health Alterations 2	3
10543114	Nursing: Management and Professional Concepts	2
10543115	Nursing: Advanced Clinical Practice	3
10543116	Nursing: Clinical Transition	2

Total Credits 70

Please Note:

- The Nursing program has August and January starting dates. Students are advised to attend a Question and Answer session. These sessions are offered on a frequent basis.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

Continued on next page.

**Step 2:**

Complete the following prerequisite coursework:

1. One year of high school chemistry or biology or combination with at least a grade of "C" or better both semesters or one semester of college chemistry with a grade of "C" or better.
2. General Anatomy & Physiology with a grade of "B-" or better. This course has a science prerequisite.
3. Submit Functional Abilities form. This form is available at mstc.edu/nursing-admission-procedures.
4. Submit Intent to Enroll form with all required documentation. This form is available at mstc.edu/nursing-admission-procedures.

Step 2 completed packets are accepted at any time. All incomplete packets will be returned. MSTC will accept at least 40 students to the Nursing program each semester. Student placement will be based on the date the Intent to Enroll form is submitted. If more than one student submits on the same date, placement will be determined by original program application date. Submit packets to MSTC Admissions Office.

**Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494**

After your Step 2 packet has been submitted, proceed to Step 3.

Step 3:

To be eligible to enroll in Nursing core courses, complete the following requirements:

1. Complete Nursing Assistant prerequisite requirement if needed.
2. Complete the following courses with a grade of "C" or better prior to starting core courses:
 - Developmental Psychology
 - English Composition 1 or Written Communications
 - Advanced Anatomy & Physiology
 - Microbiology
3. Students are highly encouraged to have the following courses completed with a grade of "C" or better prior to starting nursing courses:
 - Oral/Interpersonal Communication or Speech
 - Intro to Psychology
 - Intro to Sociology or Introduction to Diversity Studies
 - Five credits of electives
4. Must have a total program GPA of 2.0 or higher.
5. If you have all General Education and elective courses completed and within one semester of nursing clinical, you may take the Nursing Fundamentals and Nursing Pharmacology courses. You will receive an email describing the process at that time.

Nursing Information Line 715.422.5570

CREDIT FOR PRIOR LEARNING

Credit for Prior Learning is available for certain courses in the form of high school advanced standing, transfer credit, test credit, military experience, and experiential credit. Contact the program counselor with any questions you may have regarding this option.

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a nurse is available at mstc.edu/nursing-admission-procedures. Contact the disability services coordinator in the Student Services Office to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check and provide documentation of required healthwork to a private vendor, Certified Background. Clinical sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may not be able to complete clinical courses. MSTC will make two attempts to place a student in an appropriate clinical experience. If MSTC is unable to place the student after two attempts, the student will be withdrawn from the clinical course and will not be able to advance in the program. Contact the program counselor for more details.

Prior to beginning a clinical experience in a health care facility, students must:

- a) Submit evidence of completed health work
- b) Provide evidence of current CPR
- c) Obtain the required uniform for clinical experiences
- d) Accept responsibility for clinical assignment(s) regardless of time and location, including transportation and other personal arrangements

PROGRAM PROGRESSION AND COMPLETION

In order to progress in and successfully complete the program, students must:

- Maintain a program GPA of 2.0 or higher
- Receive a grade of "C" or better in all courses required for graduation except General Anatomy & Physiology with a grade of "B-" or better
- If a student is not successful in a Nursing 10543 core course, he/she will need to repeat that course prior to progressing in the program. Potential continuation is dependent upon availability in the course/program.

Students will receive two attempts to pass any Nursing 10543 course. If a passing grade is not achieved in two attempts, the student will be withdrawn from the program. A withdrawal grade of "W" counts as one attempt for the course. Requests for special consideration may be directed to the Service & Health associate dean for Nursing.

ARTICULATION OPPORTUNITIES

Articulation opportunities are between Wisconsin technical colleges with the implementation of the system-wide nursing curriculum. Identical courses in nursing throughout the Wisconsin Technical College System (WTCS) make transfer and readmission to other WTCS colleges easier for nursing students throughout the state. This articulation is based on seat availability and college residency requirements.

Also, articulation opportunities in nursing are available with most private universities and all public universities in Wisconsin. Generally, an MSTC graduate in the Nursing program can expect approximately 60-70 credits to transfer from MSTC to a Wisconsin university.

ELIGIBILITY REQUIREMENTS FOR REGISTERED NURSE EXAMINATION

1. Graduated from high school or its equivalent as determined by the Wisconsin State Board of Nursing.
2. Wisconsin State Statutes require that the student DOES NOT have an arrest or conviction record for acts or circumstances that relate directly to the clinical practice of the license being requested (e.g., harm/injury; drug or alcohol impairment). Individuals cannot be discriminated against for arrest or conviction records if the precipitating actions do not directly relate to practice.
3. Graduated from a Wisconsin Board of Nursing approved program.
4. Payment of fees to Mid-State Technical College and the Wisconsin State Board of Nursing.

MAINTAINING A NURSING LICENSE

The Wisconsin State Board of Nursing may revoke, limit, suspend, or deny renewal of license if the person committed any of the following:

1. Fraud in the procuring or renewal of the license.
2. One or more violations of the Nurse Practice Act (Chapter 441) or accompanying Administrative Rules.
3. Acts which show practitioner to be unfit or incompetent.
4. Misconduct or unprofessional conduct.

NURSING ASSISTANT

Program Code 30-543-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

Nursing assistants, sometimes called nurse aides or attendants, are in high demand to assist in the care of patients in hospitals, extended care facilities, and home care situations. Working under the direct supervision of a registered nurse, their responsibilities may vary, but personal care and emotional support of patients are always primary considerations.

This 120-hour program involves online learning, campus lab experiences, and a 48-hour clinical practicum, which involves working in health care agencies with patients and residents. Students must be at least 16 years old to attend clinical practicum.

The Mid-State Technical College Nursing Assistant program is accredited by the Wisconsin Department of Health Services (DHS) Bureau of Quality Assurance.

RELATED PROGRAMS

Central Service Technician
Emergency Medical Technician
EMT Paramedic
Health Informatics and Information Management
Medical Assistant
Nursing
Paramedic Technician
Pharmacy Technician
Phlebotomy Technician
Practical Nursing
Respiratory Therapist
Surgical Technologist

PROGRAM OUTCOMES

Employers will expect you, as a Nursing Assistant graduate, to be able to:

- Communicate and interact effectively with clients, family, and co-workers
- Maintain and protect client rights
- Report information and record observations
- Demonstrate the ethical and legal responsibilities of the NA/HHA
- Provide safe care to a diverse population, meeting personal, physical, and psychosocial client needs
- Assist with client rehabilitation and restorative care, promoting independence
- Assist clients with long-term, disabling conditions including dementia, always focusing on the strengths of the client
- Work cooperatively in a team environment
- Eligible to take the WI NA Competency evaluation

Note: Outcomes for the Nursing Assistant program are state and federally mandated.

CAREER OPTIONS

CBRF Caregiver
Home Health Aide
Nursing Assistant

POTENTIAL FOR ADVANCEMENT

Potential advancement generally requires further education.



ADMISSIONS PROCEDURES

To apply to the Nursing Assistant program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with a \$30 nonrefundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.
3. Must be at least 16 years of age.
4. Complete a Background Information Disclosure (BID) form and submit \$15 Caregiver Background check. The Wisconsin Caregiver Law requires a background check.
5. After satisfactorily completing steps 1-4, complete an online information session and accompanying quiz found on the Nursing Assistant accepted student website. This website address will be provided in the program acceptance letter sent to applicants upon satisfactory completion of those steps. In the information session, students learn about the profession, academic requirements of the program, and the impact of program coursework on one's personal life. Once a student has completed steps 1-5, he/she is then able to register for the Nursing Assistant course.

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Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494**

Upon completion of the nursing assistant course students must pass a state certification exam to become a Certified Nursing Assistant (CNA). Appropriate proof of identity will be required by the certification testing agency.

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a nursing assistant is available at mstc.edu/programs/nursing-assistant. Contact the disability services coordinator in the Student Services Office to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check and provide documentation of required healthwork.

CURRICULUM

Term	(3 credits)
30543300 Nursing Assistant	3
Total Credits 3	

Clinical sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may not be able to complete clinical courses. MSTC will make two attempts to place a student in an appropriate clinical experience. If MSTC is unable to place the student after two attempts, the student will be withdrawn from the clinical course and will not be able to advance in the program. Contact the program counselor for more details.

Prior to beginning a clinical experience in a health care facility, students must:

- a. Provide evidence of good health by completion of required health work within three months prior to starting their clinical experience. The required form for reporting the results of your physical exam and specific immunization information is available on the accepted student website. The completed physical form is due the first day of class unless the class is accelerated, in which case it is due three weeks prior to the first day of class.
- b. Obtain the required uniform for clinical experiences.
- c. Assume responsibility for clinical assignment(s) regardless of time and location, including transportation and other personal arrangements.

PROGRAM PROGRESSION

In order to successfully complete the program, students must receive a "C" or better in course 30543300.

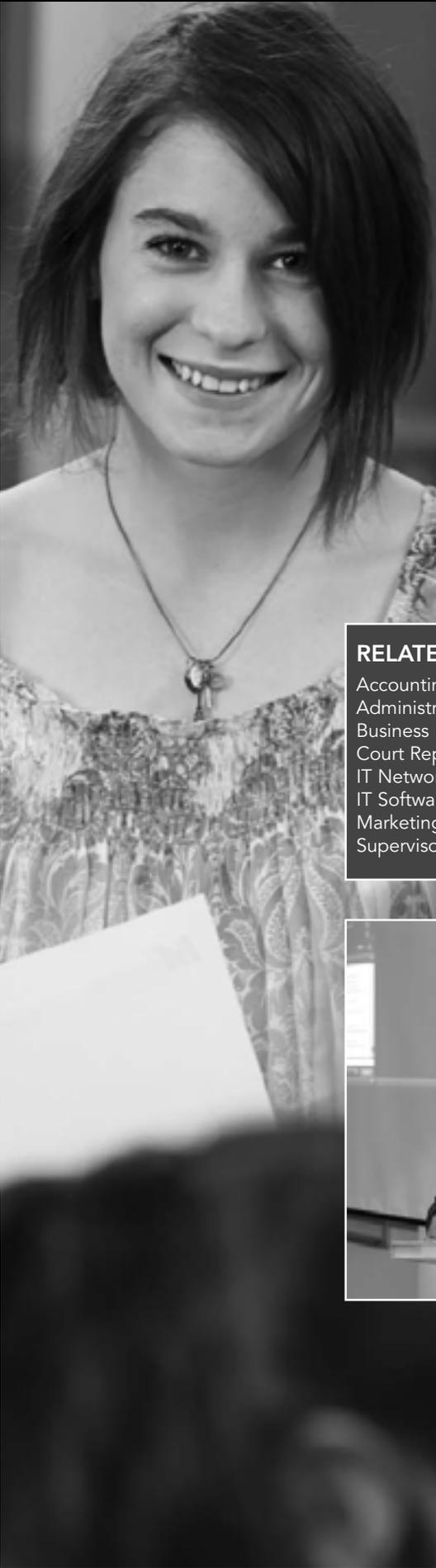
CERTIFICATION

The Department of Health Services Bureau of Quality Assurance requires that students who successfully pass the Nursing Assistant program take a state certification exam to qualify them to be listed in the state and federal nurse aide registries. Information to apply for this certification exam will be provided to students during their Nursing Assistant course. Nursing assistants must be listed on the state and federal nurse aide registries to be eligible to work in Wisconsin. Appropriate proof of identity will be required by the certification testing agency.

Additional Options

- MSTC offers Personal Care Worker training (47543400), which is an optional introduction to Nursing Assistant.
- The Nursing Assistant-Acute Care course (10543173) expands the skill set of the nursing assistant. Prerequisite: completion of a 120-hour state approved Nurse Aide training program or current certification on the Wisconsin Nurse Aide registry. This course is an approved elective for the Associate Degree Nursing program.
- Nursing Assistant program is a prerequisite for admission to the Nursing program.

OFFICE SUPPORT SPECIALIST



Program Code 31-106-8

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

As an office support specialist, you are a key member of the office team responsible for a variety of activities which support office operations. The office support specialist is often the communication link in the office through the use of technology and personal interactions. A primary focus of your job is the preparation of documents using software applications.

As valued employees in business, industry, education, and government, office support specialists are trained to:

- Be professional and ethical
- Communicate effectively
- Create documents using appropriate software
- Problem solve to effectively handle day-to-day issues
- Process mail
- Store and retrieve records manually and using an automated system
- Work with individuals, teams, and the public

Administrative support and customer service positions are forecast to be in the top 25 of occupations with the most job openings through 2022.

RELATED PROGRAMS

Accounting
Administrative Professional
Business Management
Court Reporting
IT Network Specialist
IT Software Developer
Marketing
Supervisory Management



PROGRAM OUTCOMES

Employers will expect you, as an Office Support Specialist graduate, to be able to:

- Demonstrate effective workplace communications
- Apply technology skills to business and administrative tasks
- Perform routine administrative procedures
- Manage administrative projects
- Maintain business relationships
- Model professionalism in the workplace

The Wisconsin Technical College System (WTCS) has implemented a requirement that all technical colleges measure program outcomes attained by students. This requirement is called Technical Skills Attainment (TSA). The main objective of TSA is to ensure graduates have the technical skills needed by employers. Office Support Specialist program outcomes are measured in the TSA-designated course Administrative Office Procedures.

CAREER OPTIONS

Administrative Clerk
Customer Service Representative
General Office Assistant
Office Assistant
Office Computer Specialist
Program Assistant
Receptionist
Records Assistant

POTENTIAL FOR ADVANCEMENT

Administrative Professional
 Administrative Support Supervisor
 Clerical Supervisor
 Medical Records Technician
 Office Manager
 Records Supervisor

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Office Support Specialist program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
 Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494

PROGRAM PROGRESSION

In order to maintain a passing status and progress in the program, students must:

- Receive a grade of "C" or better in Administrative Office Procedures to graduate.

CURRICULUM

Term		(18-19 credits)
10102101	Intro to Business	3
10103106	Microsoft Office-Introduction	3
10106157	Document Formatting	3
10106160	Proofreading & Editing	3
10801136	English Composition 1 -or-	
10801195	Written Communication	3
10804107	College Mathematics	3
	-or-	
10804118	Intermediate Algebra with Applications	4
	-or-	
10804189	Introductory Statistics	3

Term		(18 credits)
10102130	Career Development -or-	
10801199	Employment Strategies	3
10103114	Word-Intermediate	1
10103124	Excel-Intermediate	1
10103134	Access-Intermediate	1
10106140	Business Information Management	3
10106150	Administrative Office Procedures	3
10106172	Digital Communication Technology	3
10801196	Oral/Interpersonal Communication -or-	
10801198	Speech	3

Total Credits 36-37

Please Note:

- The Office Support Specialist program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

PARAMEDIC TECHNICIAN

Program Code 10-531-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

Paramedic Technician is an 1150-hour program based upon the U.S. Department of Transportation Administration/Wisconsin Bureau Local Health Support and EMS curriculum. The Paramedic Technician curriculum prepares the student with the knowledge and skills to work competently as an entry-level EMT-Paramedic. The program consists of classroom lectures, practical skills lab, laboratory simulations, and hospital and prehospital clinical experiences.

Completion of the Emergency Medical Technician program is required prior to beginning the Paramedic core courses. The program offers additional certifications in Advanced Cardiac Life Support, Trauma Life Support, and Pediatric Advanced Life Support. Students learn advanced prehospital skills in the classroom, skills laboratory, hospital, and prehospital settings.

Students who successfully complete the program are eligible to take the National Registry written and practical examination.

RELATED PROGRAMS

Central Service Technician
Emergency Medical Technician
EMT Paramedic
Health Informatics and Information Management
Medical Assistant
Nursing
Nursing Assistant
Pharmacy Technician
Phlebotomy Technician
Respiratory Therapist
Surgical Technologist

PROGRAM OUTCOMES

Employers will expect you, as a Paramedic Technician graduate, to be able to:

- Prepare for incident response and EMS operations
- Integrate pathophysiological principles and assessment findings for a variety of patient encounters
- Demonstrate paramedic skills associated with established standards and procedures for a variety of patient encounters
- Communicate effectively with others
- Demonstrate professional behavior
- Meet state and national competency requirements for paramedic credentialing

CAREER OPTIONS

Ambulance Services
Dispatch Centers
First Responder Units
Hospitals/Emergency Departments
Industry Safety Departments
Rescue Squads
Urgent Care Facilities

POTENTIAL FOR ADVANCEMENT

Ambulance Service Manager
EMT-Instructor
EMT-Shift Supervisor
Service Training Coordinator

Potential advancement generally requires further education.



ADMISSIONS PROCEDURES

To apply to the Paramedic Technician program, please complete the following step and submit documents to the MSTC Admissions Office:

Step 1:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum required scores are:

- Reading-Accuplacer score of 55
- Sentence Skills-Accuplacer score of 60
- Arithmetic-Accuplacer score of 34
- ACT equivalents for above scores are acceptable.

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.
4. Submit the Criminal Background Statement of Understanding and Release of Information form.

Completion of step 1 requirements allows the student to begin general education courses.

If you are taking EMT as part of the Paramedic Technician program, you must apply to that program (30-531-3) separately. Even though EMT is part of the curriculum, it is handled as a stand-alone program for admission purposes.

Step 2:

1. Submit a current State of Wisconsin EMT license.

Completion of the Step 2 requirement will make the student eligible for entry into the Paramedic core courses (10531911 through 10531924). Completion of Step 2 does not guarantee entry into the next available cohort of core program students. Cohorts are filled on a first-eligible, first-served basis.

Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494

CURRICULUM

Term (18 credits)

10531168	EMT Basic	5
10801136	English Composition 1 -or-	
10801195	Written Communication	3
10806177	General Anatomy & Physiology	4
10809122	Intro to American Government -or-	
10809172	Introduction to Diversity Studies -or-	
10809196	Intro to Sociology	3
10809198	Intro to Psychology	3

Term (14 credits)

10531169	EMS Career Fundamentals -or-	
10806197	Microbiology	4
10801196	Oral/Interpersonal Communication -or-	
10801198	Speech	3
10806179	Advanced Anatomy & Physiology	4
10809188	Developmental Psychology	3

Term (20 credits)

10531911	EMS Fundamental	2
10531912	Paramedic Medical Principles	4
10531913	Patient Assessment Principles	3
10531914	Prehospital Pharmacology	3
10531916	Paramedic Cardiology	4
10531917	Paramedic Clinical/Field 1	3
10531918	Advanced Resuscitation	1

Term (18 credits)

10531915	Paramedic Respiratory Management	2
10531919	Paramedic Medical Emergencies	4
10531920	Paramedic Trauma	3
10531921	Special Patient Populations	3
10531922	EMS Operations	1
10531923	Paramedic Capstone	1
10531924	Paramedic Clinical/Field 2	4

Total Credits 70

Please Note:

- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

Continued on next page.

PARAMEDIC TECHNICIAN

Students who fail to meet the non-paramedic core (associate degree) requirements within 31 undergraduate credit hours will have their conditional admission to the Paramedic Technician program withdrawn and will no longer be eligible for financial aid.

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a paramedic technician is available at mstc.edu/programs/paramedic-technician. Contact the disability services coordinator in the Student Services Office to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check and provide documentation of required healthwork and current health care provider level CPR certification to a private vendor. Students are responsible for ensuring all requirements remain current during program enrollment.

Clinical sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may not be able to complete clinical courses. MSTC will make two attempts to place a student in an appropriate clinical experience. If MSTC is unable to place the student after two attempts, the student will be withdrawn from the clinical course and will not be able to advance in the program. Contact the program counselor for more details.

Prior to beginning a clinical experience in a health care facility or ambulance service, students must:

- a. Provide evidence of completion of the required health work within one month following the start of EMS Fundamentals (10531911).
- b. Hold a current State of Wisconsin EMT license.
- c. Hold a Department of Health Services EMT Training Center Training Permit at the paramedic level.
- d. Provide evidence of current CPR at the health care professional level by a CPR organization specified under s. DHS 110.17(1).
- e. Obtain the required uniform for clinical experiences.
- f. Assume responsibility for clinical assignment(s) regardless of time and location, including transportation and other personal arrangements.

PROGRAM PROGRESSION AND COMPLETION

In order to progress in and complete the program, students must receive a grade of "C" or better in each of the paramedic core courses. Failure to obtain a grade of "C" in any core course will prevent a student from progressing onto the next course in the sequence until they have retaken the course and achieved a grade of "C" or better.

All general education and non-core technical education courses must be completed with a grade of "C" or better in order to be eligible for graduation.

Having to retake a core course will require removal from the student's cohort and placement will be made in the next cohort with an available seat.

This requirement also applies to the last class in the sequence, as the grade of "C" or better is required in all core courses in order to retain eligibility to take the National Registry exam.





PHARMACY TECHNICIAN

Program Code 31-536-1

**2014-2015 Estimated Tuition and Fees: Contact Lakeshore Technical College
Median Salary Six Months After Graduation: mstc.edu/programsalaries**

If you're ill or injured, you have access to an enormous variety of therapeutic medications, and you trust your pharmacy to correctly interpret and fill your prescriptions. Pharmacy technicians contribute to our safety by assisting pharmacists in a variety of technical tasks. If you're attentive to detail, organized, a good communicator, and like math, science, and working with people, a career as a pharmacy technician may be your prescription for success. Students will receive both lab and actual clinical experience.

Core program courses are offered via video conference hosted by Lakeshore Technical College (LTC) and are supported by select classes available with Mid-State Technical College.

RELATED PROGRAMS

Central Service Technician
Emergency Medical Technician
EMT Paramedic
Health Informatics and Information Management
Medical Assistant
Nursing
Nursing Assistant
Paramedic Technician
Phlebotomy Technician
Practical Nursing
Respiratory Therapist
Surgical Technologist

PROGRAM OUTCOMES

Employers will expect you, as a Pharmacy Technician graduate, to be able to:

- Package and label drugs for prescription dispensing
- Prepare and deliver unit dose to the nursing services of hospitals or nursing homes
- Prepare parenteral admixtures under aseptic and sterile conditions
- Receive and inventory drug shipments
- Maintain records, including patient profiles
- Facilitate communication for third-party reimbursement
- Compound solutions, ointments, lotions, suppositories, and other medications
- Comprehend and utilize medical and drug terminology common to the pharmaceutical environment
- Practice ethical standards and recognize legal implications of your actions as they relate to yourself, the pharmacist, and the pharmacy

CAREER OPTIONS

Home IV Specialist
Pharmacy Technician employed at
Community Pharmacies, Hospital Pharmacies, Nursing Home Pharmacies

Potential advancement generally requires further education.



ADMISSIONS PROCEDURES

To apply to the Pharmacy Technician program, please submit the following documents to Lakeshore Technical College (LTC):

1. Complete a WTCS application form and return it with the \$30 non-refundable application fee. Check is payable to LTC.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 70
 - Arithmetic-Accuplacer score of 50
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.
3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.
4. Complete a Background Information Disclosure (BID) form and submit \$16 for Caregiver Background check. The Wisconsin Caregiver Law requires a background check.
5. Complete health form and immunization records.
6. Read, sign, and return the Functional Abilities Statement of Understanding form.
7. Read, sign, and return the sign-off sheet for the Pharmacy Technician Program Handbook.
8. Complete a telephone program advising session with LTC Counselor.
9. Upon receipt of the above materials, you will be accepted to Lakeshore Technical College. LTC will then notify you of additional program requirements.

Lakeshore Technical College
Admissions
1290 North Avenue
Cleveland, WI 53015-1414
888.GO TO LTC • 888.468.6582

Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494

CREDIT FOR PRIOR LEARNING

Credit for Prior Learning is available for certain courses in the form of high school advanced standing, transfer credit, test credit, military experience, and experiential credit. Contact the program counselor with any questions you may have regarding this option.

CURRICULUM

Term		(18 credits)
10501101	Medical Terminology	3
10501102	Health Insurance and Reimbursement	3
10536110	Pharmaceutical Calculations	3
10536113	Pharmacy Business Applications	3
10536115	Pharmacy Law	2
10536120	Fundamentals of Reading Prescriptions	1
10536122	Pharmacology	3

Term		(18 credits)
10536125	Pharmacy Drug Distribution Systems	2
10536126	Pharmacy Parenteral Admixtures	3
10801196	Oral/Interpersonal Communication	3
10809198	Psychology-Introduction to	3
10536143	Pharmacy Hospital Clinical	2
10536141	Pharmacy Computer Lab	2
10536139	Pharmacy Community Clinical	3

Total Credits 36

Please Note:

- The Pharmacy Technician program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- MSTC course descriptions are found beginning on page 114.

CLINICAL-RELATED REQUIREMENTS

Clinical sites have the right to refuse a student's admission based on conviction records. If you have a criminal history, you may not be able to complete clinical courses. Also, clinical agencies will be notified of all students with pending charges and convictions and agencies can decline student admission to that agency. You may contact the program counselor for more details.

The Pharmacy Services Management program (Associate Degree in Applied Science) is available at Lakeshore Technical College. Contact LTC with any questions.

PHLEBOTOMY TECHNICIAN

Program Code 30-513-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

Phlebotomists are in great demand across the country. The Phlebotomy Technician program teaches blood collecting techniques that include venipuncture, skin punctures, and arterial punctures to provide samples necessary for lab analysis. You will also learn information and skills needed to perform various lab procedures, including specimen processing.

Realizing the great need for well-prepared phlebotomists, Mid-State Technical College, in conjunction with area health care agencies, provides a less-than-one-year diploma program to prepare qualified phlebotomists to meet the needs of laboratories seeking skilled personnel.

This program features a 17-credit preparatory semester at Mid-State Technical College followed by a three-credit theory course and a five-credit practicum at a regional health care agency.

The Phlebotomy Technician program is approved by the National Accrediting Agency for Clinical Laboratory Sciences, one of only three approved programs in Wisconsin. Graduates are also prepared to take a national certification exam. However, taking and passing a national exam is not a graduation requirement.

National Accrediting Agency for Clinical Laboratory Sciences

5600 N. River Road Suite 720, Rosemont, IL 60018-5119

773.714.8880 • www.nacls.org

RELATED PROGRAMS

Central Service Technician
Medical Assistant
Surgical Technologist



PROGRAM OUTCOMES

Employers will expect you, as a Phlebotomy Technician graduate, to be able to:

- Collect, transport, handle, and process blood and other specimens
- Adhere to infection control and safety policies and procedures
- Demonstrate professional interpersonal skills with patients, family members, and other health care personnel
- Perform within legal and ethical boundaries
- Perform basic laboratory testing procedures under appropriate supervision
- Process requisitions

CAREER OPTIONS

Clinical Laboratories
Emergency Room Services
Extended Care Facilities
Insurance Companies
Metropolitan Phlebotomy Service Agencies
Nursing Homes
Outpatient Services
Veterinary Services

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Phlebotomy Technician program, please complete the following steps submit documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents or select course completion are acceptable alternatives for above scores.

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.
4. Submit the Criminal Background Statement of Understanding and Release of Information form.

**Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494**

CREDIT FOR PRIOR LEARNING

Credit for Prior Learning is available for certain courses in the form of high school advanced standing, transfer credit, test credit, military experience, and experiential credit. Contact the program counselor with any questions you may have regarding this option.

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a phlebotomy technician is available at mstc.edu/programs/phlebotomy-technician. Contact the disability services coordinator in the Student Services Office to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check and provide documentation of required healthwork to a private vendor.

Students are responsible for ensuring all requirements remain current during program enrollment.

CURRICULUM

Term		(16 credits)
10103106	Microsoft Office-Introduction	3
10501101	Medical Terminology	3
10501109	Medical Law, Ethics, and Professionalism	2
10501110	Healthcare Communication Strategies	2
10509102	Human Body in Health and Disease	3
10513101	Basic Clinical Laboratory Techniques	3

Term		(8 credits)
10513116	Principles of Phlebotomy	3
10513117	Phlebotomy Laboratory/Practicum	5

Total Credits 24

Please Note:

- The Phlebotomy Technician program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

Clinical sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may not be able to complete clinical courses. MSTC will make two attempts to place a student in an appropriate clinical experience. If MSTC is unable to place the student after two attempts, the student will be withdrawn from the clinical course and will not be able to advance in the program. Contact the program counselor for more details.

PROGRAM PROGRESSION

In order to maintain a passing status and progress in the program, students must:

- Receive a grade of "C" or better in all courses required for graduation.
- Repeat courses not completed with a grade of "C" or better prior to progressing in core courses or other courses with co- or prerequisites.

Please note that the ability to repeat courses is dependent upon availability in courses. Students may be required to apply for program re-entry in order to repeat courses within the programs instructional area. All first semester courses must be completed with a grade of "C" or better to progress to core classes in the second semester.

Students will receive three attempts to pass any 10-513 course. If a passing grade is not achieved in three attempts, the student will be permanently withdrawn from the program or program waiting list. A withdrawal grade of "W" counts as one attempt for the course. Requests for special consideration should be directed to the Service & Health associate dean.

PRACTICAL NURSING

Program Code 31-543-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Practical Nursing program has a challenging curriculum that prepares students to provide direct care for individuals in long-term care agencies, doctor's clinics, home health agencies, the armed services, and other sites. This program includes lectures, discussions, demonstrations, laboratory practice, and supervised clinical in a variety of settings.

After successfully completing the Practical Nursing (PN) program, the graduate becomes eligible to apply to take the national licensing exam for Practical Nursing. If you pass the examination, you may work as a Licensed Practical Nurse (LPN). As an LPN, you will work in the health care field under the direction of a Registered Nurse (RN).

The admission requirements are the same for the Practical Nursing and the Associate Degree Nursing (ADN) programs to support progression from one program into the next. Practical Nursing graduates are eligible to apply to the ADN program and continue their education to become an RN. Articulation of a PN graduate into the Nursing program is based on seat availability.

MSTC's Practical Nursing program is part of the Wisconsin Technical College System (WTCS) system-wide curriculum. The Practical Nursing program is approved by the Wisconsin Board of Nursing.

RELATED PROGRAMS

Central Service Technician
Emergency Medical Technician
EMT-Paramedic
Health Informatics and Information Management
Medical Assistant
Nursing
Nursing Assistant
Paramedic Technician
Pharmacy Technician
Phlebotomy Technician
Respiratory Therapist
Surgical Technologist

PROGRAM OUTCOMES

Employers will expect you, as a Practical Nursing graduate, to be able to:

- Implement one's role as a nurse in ways that reflect integrity, responsibility, ethical practices, and an evolving identity as a nurse committed to caring, advocacy, and quality care while adhering to evidence-based practice
- Demonstrate appropriate written, verbal, and nonverbal communication in a variety of clinical contexts
- Integrate knowledge of social, mathematical, and physical sciences, pharmacology, and disease processes while participating in clinical decision making
- Provide patient centered care under supervision by participating in the nursing process across diverse populations and health care settings
- Minimize risk of harm to patients, members of the health care team, and self through safe individual performance and participation in system effectiveness
- Collaborate as an active member of the multidisciplinary health care team to provide effective patient care throughout the lifespan
- Use information and technology to communicate, manage data, mitigate error, and assist with decision making



CAREER OPTIONS

Upon successful completion of licensure examination a Licensed Practical Nurse holds positions such as:

- Home Care Nurse
- Long-term Care Nurse
- Office Nurse
- Private Duty Nurse

POTENTIAL FOR ADVANCEMENT

- Charge Nurse
- Registered Nurse

Potential advancement generally requires further education.

ADMISSION PROCEDURES

To apply to the Practical Nursing program, please complete the following steps and submit documents to the MSTC Admissions Office:

Step 1:

1. Complete an MSTC Application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT.
Minimum scores required:
 - Reading–Accuplacer score of 95
 - Sentence Skills–Accuplacer score of 103
 - Math–Accuplacer score of 79
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit official copy of all academic transcripts, including high school, college or university, and HSED/GED.
4. Submit the Criminal Background Statement of Understanding and Release of Information form.

When the requirements for Step 1 are completed, the student will be admitted to the program and may be eligible to apply for financial aid.

Step 2:

Complete the following prerequisite coursework:

1. One year of high school chemistry or biology or combination with at least a grade of "C" or better both semesters or one semester of college chemistry with a grade of "C" or better.
2. General Anatomy & Physiology with a grade of "B-" or better. This course has a science prerequisite.

CURRICULUM

Term		(16 credits)
10543101	Nursing Fundamentals	2
10543102	Nursing Skills	3
10543103	Nursing Pharmacology	2
10543104	Nursing: Intro to Clinical Practice	2
10806177	General Anatomy & Physiology	4
10809188	Developmental Psychology	3

Term		(16 credits)
10543105	Nursing Health Alterations	3
10543106	Nursing Health Promotion	3
10543107	Nursing: Clinical Care Across the Lifespan	2
10543108	Nursing: Intro to Clinical Care Management	2
10801136	English Composition 1 -or-	
10801195	Written Communication	3
10801196	Oral/Interpersonal Communication	3

Total Credits 32

Please Note:

- The Practical Nursing program has an August start date. Students are advised to attend a Question and Answer session. These sessions are offered on a frequent basis.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

Continued on next page.

PRACTICAL NURSING

3. Submit Functional Abilities form. This form is available at mstc.edu/practical-nursing-admissions.
4. Submit Intent to Enroll form with all required documentation. This form is available at mstc.edu/practical-nursing-admissions.

Step 2 completed packets are accepted at any time. All incomplete packets will be returned. MSTC will accept eight students to the Practical Nursing program each year. Student placement will be determined based on the date the Intent to Enroll form is submitted. If more than one student submits on the same date, placement will be determined by original program application date. Submit packets to MSTC Admissions Office.

**Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494**

After your Step 2 packet has been submitted, proceed to Step 3.

Step 3:

To be eligible to enroll in Practical Nursing core courses, complete the following requirements:

1. Complete Nursing Assistant prerequisite requirement if needed.
2. Complete the following courses with a grade of "C" or better:
Required prior to nursing:
 - Developmental Psychology
 - English Composition 1 or Written CommunicationRecommended prior to Nursing courses:
 - Oral/Interpersonal Communication or Speech
3. Must have a total program GPA of 2.0 or higher.
4. If you have all General Education courses completed and you are within one semester of nursing clinical, you may take the Nursing Fundamentals and Nursing Pharmacology courses. At that time, you will receive an email describing the process.

Nursing Information Line 715.422.5570

CREDIT FOR PRIOR LEARNING

Credit for Prior Learning is available for certain courses in the form of high school advanced standing, transfer credit, test credit, military experience, and experiential credit. Contact the program counselor with any questions you may have regarding this option.

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a nurse is available at mstc.edu/programs/practical-nursing. Contact the disability services coordinator in the Student Services Office to receive assistance.



CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check and provide documentation of required healthwork to Certified Background a private vendor.

Clinical sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may not be able to complete clinical courses. MSTC will make two attempts to place a student in an appropriate clinical experience. If MSTC is unable to place the student after two attempts, the student will be withdrawn from the clinical course and will not be able to advance in the program. Contact the program counselor for more details.

Prior to beginning a clinical experience in a health care facility, students must:

- a) Submit evidence of completed health work
- b) Provide evidence of current CPR
- c) Obtain the required uniform for clinical experiences
- d) Accept responsibility for clinical assignment(s) regardless of time and location, including transportation and other personal arrangements

PROGRAM PROGRESSION AND COMPLETION

In order to progress in and successfully complete the program, students must:

- Receive a grade of "C" or better in all courses required for graduation except General Anatomy & Physiology with a grade of "B-" or better.
- Maintain a program and cumulative GPA of 2.0 or higher.
- If a student is not successful in a Practical Nursing 10543 course, he/she will need to repeat that course prior to progressing in the program. Potential continuation is dependent upon availability in the course/program.

Students will receive two attempts to pass any Practical Nursing 10543 course. If a passing grade is not achieved in two attempts, the student will be withdrawn from the program. A withdrawal grade of "W" counts as one attempt for the course. Requests for special consideration may be directed to the Service & Health associate dean for Nursing.

ARTICULATION OPPORTUNITIES

An MSTC graduate from the Practical Nursing (PN) program can articulate with any Nursing associate degree program in the Wisconsin Technical College System (WTCS) and expect no duplication of classes. This articulation is based on seat availability and college residency requirements. All WTCS PN graduates can apply and articulate directly into the second year of the Nursing program based on seat availability and completion of general education courses.

ELIGIBILITY REQUIREMENTS FOR LICENSED PRACTICAL NURSE EXAMINATION

1. Graduated from high school or its equivalent as determined by the Wisconsin State Board of Nursing.
2. Wisconsin state statutes require that the student DOES NOT have an arrest or conviction record for acts or circumstances that relate directly to the clinical practice of the license being requested (e.g. bodily harm/injury; drug or alcohol impairment). Individuals cannot be discriminated against for arrest or conviction records if the precipitating actions do not directly relate to practice.
3. Graduated from a Board of Nursing approved school of nursing.
4. Payment of fees to Mid-State Technical College and the Wisconsin State Board of Nursing.

MAINTAINING A NURSING LICENSE

The Wisconsin State Board of Nursing may revoke, limit, suspend, or deny renewal of license if the person committed any of the following:

1. Fraud in the procuring or renewal of the license.
2. One or more violations of the Nurse Practice Act (Chapter 441) or accompanying Administrative Rules.
3. Acts which show practitioner to be unfit or incompetent.
4. Misconduct or unprofessional conduct.

PROCESS & BIOREFINERY TECHNOLOGY

Program Code 10-484-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Process & Biorefinery Technology program prepares technicians to perform operations and maintenance tasks in the expanding biofuel and biogas production and biorefining industries.

The curriculum emphasizes learning and performing the mechanical processes of biofuel production and biorefining, as well as plant operations, systematic troubleshooting, logical problem-solving, and safety.

RELATED PROGRAMS

Solar Electric Technician
Renewable Energy Specialist
Sustainable Heating and Cooling Technician

PROGRAM OUTCOMES

Employers will expect you, as a Process & Biorefinery Technology graduate, to be able to:

- Maintain a safe work environment
- Diagnose, service, and repair machinery and manufacturing equipment using appropriate tools, materials, and methods
- Plan and execute an effective preventive maintenance program for complex manufacturing processes and machinery
- Manage production process
- Maintain product quality program
- Perform order fulfillment
- Continue career development

CAREER OPTIONS

Anaerobic Biodigester Maintenance Technician
Anaerobic Biodigester Operator
Biofuel Plant Maintenance Technician
Biofuel Plant Operator
Biorefinery Technician
Chemical Plant & System Operator
Chemical Process Technician

POTENTIAL FOR ADVANCEMENT

Plant Maintenance Supervisor
Plant Manager
Plant Operations Supervisor
Quality Assurance Technician

Potential advancement generally requires further education.



ADMISSIONS PROCEDURES

To apply to the Process & Biorefinery Technology program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

**Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494**

CURRICULUM

Term		(17 credits)
10103106	Microsoft Office-Introduction	3
10462103	Intro to Mechanical Technology	2
10484117	Intro to Process Technology	2
10605102	Instrument Mechanics	3
10804118	Intermediate Algebra with Applications	4
10806184	Plant Biology	3

Term		(16-17 credits)
10001148	People, Resources, and Sustainability	3
10462110	Material Handling	2
10484110	Bioenergy Production I	2
10605105	Electrical Circuits I	3
	-or-	
10605108	Intro to Electronics	2
10801136	English Composition 1 -or-	
10801195	Written Communication	3
10806134	General Chemistry	4

Term		(2 credits)
10480190	Renewable Energy Internship -or-	
10480195	Renewable Energy/Energy Conservation-Special Topics	2

Term		(16 credits)
10103124	Excel-Intermediate	1
10462107	Industrial Safety	2
10484111	Bioenergy Production II	2
10605100	Process Measurements I	4
10806197	Microbiology	4
10809188	Developmental Psychology -or-	
10809198	Intro to Psychology	3

Term		(17 credits)
10480100	Alternative Energy Overview	2
10484112	Bioenergy Production III	2
10484190	Biorefinery Process Control	3
10623110	Quality Assurance Concepts & Techniques	3
10801196	Oral/Interpersonal Communication -or-	
10801198	Speech	3
10809166	Intro to Ethics: Theory & Application	3
	Elective	1

Total Credits 68-69

Please Note:

- The Process & Biorefinery Technology program has an August start date. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

RENEWABLE ENERGY SPECIALIST

Program Code 10-482-3

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Renewable Energy Specialist program will prepare students to design an integrated portfolio of renewable and traditional energy producing systems. Students perform site assessments and recommend appropriate renewable energy technologies, sell and/or market renewable energy technologies, and manage renewable energy installation projects. Renewable Energy Specialists have a working knowledge of "green" building concepts and energy efficient design principles.

RELATED PROGRAMS

Solar Electric Technician
Sustainable Heating and Cooling Technician



PROGRAM OUTCOMES

Employers will expect you, as a Renewable Energy Specialist graduate, to be able to:

- Perform site assessments for solar photovoltaic, solar thermal, and small wind systems
- Conduct feasibility studies regarding installation of renewable energy systems
- Design an integrated portfolio of renewable energy systems
- Respond to customer inquiries
- Manage renewable energy system installation projects
- Sell renewable energy systems

CAREER OPPORTUNITIES

Customer Service Representative
Engineer/Design Technician
Installation Assistant
Project Manager
Renewable Energy Specialist
Sales Representative
Site Assessor
Solar Applications Technician

POTENTIAL FOR ADVANCEMENT

Architectural Designer
HVAC Designer
Mechanical Leader
Project Engineer

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Renewable Energy Specialist program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalent scores for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

**Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494**

CURRICULUM

Term	(16-17 credits)
10102101 Intro to Business	3
10103106 Microsoft Office-Introduction	3
10480101 Intro to Renewable Energy Systems	4
10483120 Heating & Plumbing Fundamentals -or-	
10605108 Intro to Electronics	2
10623100 Problem Solving & Critical Thinking	1
10804107 College Mathematics	3
-or-	
10804118 Intermediate Algebra with Applications	4
-or-	
10804189 Introductory Statistics	3

Term	(17 credits)
10103124 Excel-Intermediate	1
10482107 Construction Fundamentals	2
10482110 Photovoltaic System Design & Installation 1	3
10483110 Solar Heating System Design & Installation 1	3
10483115 Heat Load Estimation & Modeling	3
10483122 Ventilation, Cooling, & Refrigeration Fundamentals -or-	
10623106 Intro to AutoCAD	2
10801195 Written Communication	3

Term	(17 credits)
10481110 Building Science, Performance, & Evaluation	3
10482101 Solar Site Assessment & Evaluation	3
10482140 Planning, Design, & Project Management I	2
10607166 Construction Estimating & Management	3
10801196 Oral/Interpersonal Communication -or-	
10801198 Speech	3
10809166 Intro to Ethics: Theory & Application	3

Term	(18 credits)
10102147 Principles of Management -or-	
10104105 Selling Principles	3
10481140 Energy Use & Investment Analysis	2
10482141 RE-Planning, Design, & Project Management II	2
10806112 Principles of Sustainability	3
10809122 Intro to American Government	3
10809172 Introduction to Diversity Studies -or-	
10809196 Intro to Sociology	3
Elective	2

Total Credits 67-68

Please Note:

- The Renewable Energy Specialist program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

RESPIRATORY THERAPIST

Program Code 10-515-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

Always in need of qualified practitioners, respiratory care is an allied health specialty used under medical direction in evaluation, treatment, and care of patients with cardiopulmonary problems. Learn the therapeutic use of medical gases and related equipment, humidifiers, aerosols, and other environmental control systems. You will also receive instruction in medication, ventilatory support, bronchopulmonary drainage, rehabilitation, airway management, and long-term home care.

Students receive both classroom instruction and clinical experience. The clinical portion of the program is held at various local hospitals and agencies. In the clinical sessions, you have the opportunity to apply what you have learned in the classroom to actual patients and equipment. Travel for this program is required.

Respiratory therapists in Wisconsin and many other states are licensed professionals. The Respiratory Therapist program is accredited by:

Commission on Accreditation for Respiratory Care (CoARC)

1248 Harwood Road, Bedford, TX 76021-4244

817.283.2835 • www.coarc.com

RELATED PROGRAMS

Health Informatics and Information Management
Nursing
Practical Nursing

PROGRAM OUTCOMES

Employers will expect you, as a Respiratory Therapist graduate, to be able to:

- Apply advanced-level respiratory therapy concepts to patient care situations
- Demonstrate technical proficiency required to fulfill the role of an advanced-level respiratory therapist
- Practice respiratory therapy according to established professional and ethical standards

CAREER OPTIONS

Cardiopulmonary Technician
EKG Technician
Home-Care Therapist
Hospital-Based Therapist
Long-term Care Therapist
Polysomnography Technician
Pulmonary Function Technician
Respiratory Rehabilitation Therapist
Respiratory Therapist

POTENTIAL FOR ADVANCEMENT

Cardiopulmonary Technologist
Perfusionist
Pulmonary Function Technologist
Respiratory Therapy Educator
Respiratory Therapy Manager

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Respiratory Therapy program, please submit documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.



- Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.
- Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.
- Submit the Criminal Background Statement of Understanding and Release of Information form.

Mid-State Technical College
Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a respiratory therapist is available at mstc.edu/programs/respiratory-therapist. Contact the disability services coordinator in the Student Services Office to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check and provide documentation of required healthwork to a private vendor.

Students are responsible for ensuring all requirements remain current during program enrollment.

Clinical sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may not be able to complete clinical courses. MSTC will make two attempts to place a student in an appropriate clinical experience. If MSTC is unable to place the student after two attempts, the student will be withdrawn from the clinical course and will not be able to advance in the program. Contact the program counselor for more details.

PROGRAM PROGRESSION

In order to progress in and successfully complete the program, students must:

- Repeat courses not completed with a grade of "C" or better prior to progressing in core courses or other courses with co- or prerequisites.

CURRICULUM	
(17 credits)	
Term	
10501101	Medical Terminology 3
10515100	Student Success in Respiratory Therapist 1
10515111	Respiratory Survey 3
10515171	Respiratory Therapeutics 1 3
10801136	English Composition 1 -or-
10801195	Written Communication 3
10806177	General Anatomy & Physiology 4
(13 credits)	
Term	
10515172	Respiratory Therapeutics 2 3
10515173	Respiratory Pharmacology 3
10515174	Respiratory/Cardiac Physiology 3
10806197	Microbiology 4
(5 credits)	
Term	
10801196	Oral/Interpersonal Communication -or-
10801198	Speech 3
10515175	Respiratory Clinical 1 2
(20 credits)	
Term	
10515112	Respiratory Airway Management 2
10515113	Respiratory Life Support 3
10515176	Respiratory Disease 3
10515178	Respiratory Clinical 2 3
10515179	Respiratory Clinical 3 3
10809166	Intro to Ethics: Theory & Application 3
10809122	Intro to American Government -or-
10809172	Introduction to Diversity Studies -or-
10809196	Intro to Sociology 3
(15 credits)	
Term	
10515101	Respiratory Therapist Test Prep 1
10515180	Respiratory Neo/Peds Care 2
10515181	Respiratory/Cardio Diagnostics 3
10515182	Respiratory Clinical 4 3
10515183	Respiratory Clinical 5 3
10809188	Developmental Psychology -or-
10809198	Intro to Psychology 3
Total Credits 70	
Please Note:	
<ul style="list-style-type: none"> The Respiratory Therapist program has an August start date. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule. This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability. Program completion time may vary based on student scheduling and course availability. All course descriptions are found beginning on page 114. 	

- Receive a grade of "C" or better in all courses required for graduation.

Please note that the ability to repeat courses is dependent upon availability in courses. Students may be required to apply for program re-entry in order to repeat courses within the program's instructional area.

SERVER AUTOMATION AND MOBILE TECHNOLOGY SYNCHRONIZATION

Program Code 30-150-3

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

Have a knack for technology and want to make money in a rapidly growing field? Whether you are new to the field, or a seasoned IT networking veteran wanting to freshen up on new technology, the Server Automation and Mobile Technology Synchronization program is a great fit for you!

This four-course program covers some of the newest and most rapidly expanding technologies in mobile device remote administration of networks and Windows server automation. Best of all, we seek feedback from local employers to ensure we are offering up-to-date course content, meaning you will have the skills and knowledge they are looking for.

RELATED PROGRAMS

IT Network Specialist

** Graduates of the Server Automation and Mobile Technology Synchronization technical diploma may advance into the IT Network Specialist program.*



PROGRAM OUTCOMES

Employers will expect you, as Server Automation and Mobile Technology Synchronization graduate, to be able to:

- Select mobile device hardware that will sync with network specifications.
- Diagnose and repair mobile device connectivity issues.
- Identify compatible mobile device OS.
- Troubleshoot mobile device issues.
- Configure mobile device email clients.

CAREER OPTIONS

BYOD Technician
IT Help Desk Specialist
Network Operations Specialist
Mobile Security Specialist
Server Deployment Specialist
Technology Support Specialist
Telecommunications Technician

POTENTIAL FOR ADVANCEMENT

Project Manager
Mobile Device Manager

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Server Automation and Mobile Technology Synchronization program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

**Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494**

CURRICULUM

Term	(12 credits)
10150101 Network Fundamentals	3
10150120 Network Administration-Beginning	3
10150165 Network Server Scripting	3
10150121 Network Administration-Intermediate	3

Total Credits 12

Please Note:

- We advise you to meet with an academic advisor to successfully plan your course schedule.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

SOLAR ELECTRIC TECHNICIAN

Program Code 10-482-2

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Solar Electric Technician program prepares technicians to design, install, operate, and maintain solar and wind electricity generating systems for both residential and light commercial applications.

Technicians perform site assessments and integrate new renewable electricity systems with current existing energy sources. Renewable electricity technicians may be involved in the sale or marketing of solar PV and wind energy technologies.

RELATED PROGRAMS

Renewable Energy Specialist
Sustainable Heating & Cooling Technician



PROGRAM OUTCOMES

Employers will expect you, as a Solar Electric Technician graduate, to be able to:

- Work safely with renewable electric systems
- Install subsystems and components at the site
- Perform a system checkout and inspection
- Maintain and troubleshoot a system
- Select a system design
- Adapt the mechanical design
- Adapt the electrical design
- Conduct a solar photovoltaic site assessment

CAREER OPTIONS

Condition Monitoring Technician
Controls Technician
Customer Service Representative
Electrical Workers/Laborers
Measurement Technician
Photovoltaic System Installation,
Maintenance, and Service Technician
Photovoltaic System Sales Representative
Service Technician
Solar PV Site Assessor
Wind Farm Service Technician
Wind System Installation, Maintenance,
and Service Technician
Wind System Sales Representative

POTENTIAL FOR ADVANCEMENT

Electrical Construction Superintendent
Energy Analyst
Journeyman: Electrician
Lead Installer
Master Technician
Project Development Engineer
Project Manager
System Designer

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Solar Electric Technician program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

**Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494**

CURRICULUM

Term	(17-18 credits)
10103106	Microsoft Office-Introduction 3
10480101	Intro to Renewable Energy Systems 4
10605105	Electrical Circuits I 3
-or-	
10605108	Intro to Electronics 2
10623106	Intro to AutoCAD 2
10801196	Oral/Interpersonal Communication -or-
10801198	Speech 3
10804107	College Mathematics 3
-or-	
10804118	Intermediate Algebra with Applications 4
-or-	
10804189	Introductory Statistics 3
Term	(17 credits)
10462114	Metals & Machining -or-
10462116	Metal Fabrication 3
10482105	Intermediate Electrical Theory & Applications 3
10482107	Construction Fundamentals 2
10482110	Photovoltaic System Design & Installation 1 3
10801136	English Composition 1 -or-
10801195	Written Communication 3
10809172	Introduction to Diversity Studies -or-
10809196	Intro to Sociology 3
Term	(17 credits)
10103124	Excel-Intermediate 1
10150101	Network Fundamentals 3
10482101	Solar Site Assessment & Evaluation 3
10482111	Photovoltaic System Design & Installation 2 3
10482115	Grid-Tied Renewable Electric Systems 2
10482120	Wind Energy System Design and Installation 3
	Elective 2
Term	(17 credits)
10482116	Stand-Alone Renewable Electric Systems 2
10482150	Advanced Renewable Electric Systems 2
10605117	Programmable Logic Controllers - Beginning 3
10806112	Principles of Sustainability 3
10809122	Intro to American Government 3
10809166	Intro to Ethics: Theory & Application 3
	Elective 1

Total Credits 67-68

Please Note:

- The Solar Electric Technician program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

SUPERVISORY MANAGEMENT

Program Code 10-196-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Supervisory Management program prepares participants for a career in management or supervision and enhances the skills of individuals actively employed in a supervisory/management career.

The program develops technical and interpersonal skills to enable individuals to lead the operations of a business from a supervisory or managerial perspective. Skills in planning, finance, human resources, leadership, safety, team building, project management, decision making, and software are developed.

RELATED PROGRAMS

Accounting
Administrative Professional
Business Management
Court Reporting
IT Network Specialist
IT Software Developer
Marketing
Office Support Specialist

PROGRAM OUTCOMES

Employers will expect you, as a Supervisory Management graduate, to be able to:

- Analyze the job of the supervisor in an organization
- Develop and nurture an effective work environment
- Establish plans to accomplish goals and achieve organizational objectives
- Supervise the work group
- Organize the work group
- Analyze financial information
- Maintain a safe work environment
- Lead the work group
- Staff the work group
- Make effective decisions
- Manage change
- Manage projects

CAREER OPTIONS

Coordinator
Director
Foreperson
Frontline Manager
Group Leader
Manager
Superintendent
Supervisor
Team Leader

POTENTIAL FOR ADVANCEMENT

Business Manager
Operations Manager
Production Manager

Potential advancement generally requires further education.



ADMISSIONS PROCEDURES

To apply to the Supervisory Management program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.
3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.
4. Employment Verification form.

**Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494**

CURRICULUM

Term	(15 Credits)
10102101 Intro to Business	3
10103106 Microsoft Office-Introduction	3
10196191 Supervision	3
10196192 Managing for Quality	3
10801136 English Composition 1 -or-	
10801195 Written Communication	3

Term	(15 Credits)
10196164 Personal Skills for Supervisor	3
10196189 Team Building & Problem Solving	3
10196190 Leadership Development	3
10801196 Oral/Interpersonal Communication -or-	
10801198 Speech	3
10809122 Intro to American Government -or-	
10809172 Introduction to Diversity Studies -or-	
10809196 Intro to Sociology	3

Term	(22-23 Credits)
10101111 Accounting I	4
10102103 Business Law & Ethics -or-	
10102104 Business Law	3
10196134 Legal Issues for Supervisors	3
10196169 Diversity & Change Management	3
10196193 Human Resource Management	3
10804107 College Mathematics	3
-or-	
10804118 Intermediate Algebra with Applications	4
-or-	
10804189 Introductory Statistics	3
10809143 Microeconomics -or-	
10809144 Macroeconomics -or-	
10809195 Economics	3

Term	(15 Credits)
10102117 Business Finance	3
10196168 Organizational Development	3
10196188 Project Management	3
10809166 Intro to Ethics: Theory & Application	3
10809188 Developmental Psychology -or-	
10809198 Intro to Psychology	3

Total Credits 67-68

Please Note:

- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

SURGICAL TECHNOLOGIST

Program Code 31-512-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

This program provides you with knowledge and skills to qualify for a position as a surgical technologist. As part of the surgical team, you will be working in operating rooms under the supervision of surgeons and registered nurses. You will be required to participate in surgical procedures by providing instruments and supplies to the surgeon. Skills and techniques used in central service with instrument processing are also learned.

Web-enhanced classroom instruction, lab, and clinical experience are part of the curriculum. Clinical experiences include surgery, ambulatory surgery, central service, and related areas. Upon graduation, one becomes eligible to apply for the Certified Surgical Technologist certifying exam.

The Mid-State Technical College Surgical Technologist program is accredited by the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC/STSA), under the auspices of:

Commission on Accreditation of Allied Health Education Programs

1361 Park Street Clearwater, FL 33756

727.210.2350 • www.caahep.org

RELATED PROGRAMS

Central Service Technician
Medical Assistant
Phlebotomy Technician

PROGRAM OUTCOMES

Employers will expect you, as a Surgical Technologist graduate, to be able to:

- Apply health care and technological science principles to the perioperative environment
- Maintain principles of sterile technique in the surgical environment
- Provide a safe, efficient, and supportive environment for the patient
- Prepare the patient, operating room, and surgical team for the preoperative phase
- Perform intraoperative case management in the scrub role
- Perform postoperative case management
- Function as an ethical, legal, and professional member of the health care team as determined by governing bodies

CAREER OPTIONS

Ambulatory Surgery Aide/Technician
Cath Lab Surgical Technologist
Central Service Technician
Dental Office Assistant
Emergency Room Technician
Material Management
Obstetrics Assistant
Podiatric Assistant
Surgical Office Assistant
Surgical Technician
Surgical Technologist
Veterinary Surgery Assistant



POTENTIAL FOR ADVANCEMENT

Physician Assistant
Registered Nurse
Surgical First Assistant

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Surgical Technologist program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.
4. Submit the Criminal Background Statement of Understanding and Release of Information form.

Mid-State Technical College
Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494

FUNCTIONAL ABILITIES

A list of specific physical, emotional, and mental tasks needed to function as a surgical technologist is available at mstc.edu/programs/surgical-technologist. Contact the disability services coordinator in the Student Services Office to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check and provide documentation of required healthwork to a private vendor.

Students are responsible for ensuring all requirements remain current during program enrollment.

Clinical sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may

CURRICULUM

Term		(6-7 credits)
10501101	Medical Terminology	3
10509102	Human Body in Health and Disease	3
	-or-	
10806177	General Anatomy & Physiology	4
Term		(16-18 credits)
10501123	Student Success in Allied Health	1
31512327	ST: Introduction to Surgical Technology	4
31512328	ST: Fundamentals 1	4
31512329	ST: Fundamentals 2	2
31512330	ST: Clinical 1	3
31806311	Applied Microbiology	2
	-or-	
10806197	Microbiology	4
Term		(15 credits)
10801136	English Composition 1	3
	-or-	
10801195	Written Communication	3
	-or-	
10801196	Oral/Interpersonal Communication	3
31512331	ST: Surgical Procedures	4
31512332	ST: Clinical 2	4
31512334	ST: Clinical 3	4

Total Credits 37-40

Please Note:

- The Surgical Technologist program has an August start. Please note that first-term classes listed in the catalog must be completed before beginning core Surgical Technologist courses (those with numbers beginning with 315123XX). We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

not be able to complete clinical courses. MSTC will make two attempts to place a student in an appropriate clinical experience. If MSTC is unable to place the student after two attempts, the student will be withdrawn from the clinical course and will not be able to advance in the program. Contact the program counselor for more details.

PROGRAM PROGRESSION AND COMPLETION

In order to progress in and successfully complete the program, students must:

- Repeat courses not completed with a grade of "C" or better prior to progressing in core courses or other courses with co- or prerequisites.
- Receive a grade of "C" or better in all courses required for graduation.

Please note that the ability to repeat courses is dependent upon availability in courses. Students may be required to apply for program re-entry in order to repeat courses within the program's instructional area.

SUSTAINABLE HEATING AND COOLING TECHNICIAN

Program Code 10-483-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Sustainable Heating and Cooling Technician program prepares technicians to design, install, operate, and maintain heating, ventilation, and air conditioning/refrigeration (HVAC/R) systems in residential and commercial applications.

The program places a strong emphasis on the most modern and efficient techniques, such as solar thermal, geothermal, biomass, radiant, low-temperature heat delivery systems, and high-efficiency furnaces and boilers. Students will gain hands on experience in the installation of both traditional HVAC/R systems and this cutting edge equipment.

RELATED PROGRAMS

Solar Electric Technician
Renewable Energy Specialist

PROGRAM OUTCOMES

Employers will expect you, as a Sustainable Heating and Cooling Technician graduate, to be able to:

- Work safely with HVAC/R, solar thermal, geothermal and biomass systems
- Install solar thermal collectors
- Install geothermal heat pumps
- Install boilers and furnaces
- Install piping, pipe insulation, and pipe supports
- Install ductwork and ventilation components
- Install water heaters and solar storage tanks
- Install electrical control systems
- Analyze heating and cooling system performance
- Select and adapt a HVAC/R system design
- Configure heating and cooling system performance for optimum efficiency
- Conduct a renewable energy site assessment
- Perform a system checkout and inspection
- Estimate a heating and cooling load

CAREER OPTIONS

Controls Technician
Geothermal Installation, Maintenance, and Service Technician
Heat Load Estimator
HVAC/R Installation, Maintenance, and Service Technician
Pre-Apprentice/Laborer
Renewable Energy Site Assessor
Solar Thermal Installation, Maintenance, and Service Technician
Technical Sales Representative



POTENTIAL FOR ADVANCEMENT

Energy Analyst
 Journeyperson: Plumber, Steamfitter
 Master Technician
 Project Development Engineer
 Project Manager
 System Designer

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Sustainable Heating and Cooling Technician program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
 Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.
3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

**Mid-State Technical College
 Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494**

CURRICULUM

Term		(16-18 credits)
10103106	Microsoft Office-Introduction	3
10480101	Intro to Renewable Energy Systems	4
10483120	Heating & Plumbing Fundamentals	2
10483121	Piping Fundamentals	2
10605105	Electrical Circuits I	3
	-or-	
10605108	Intro to Electronics	2
10804107	College Mathematics	3
	-or-	
10804118	Intermediate Algebra with Applications	4
	-or-	
10804189	Introductory Statistics	3
Term		(18 credits)
10462114	Metals & Machining -or-	
10462116	Metal Fabrication	3
10482107	Construction Fundamentals	2
10483110	Solar Heating System Design & Installation 1	3
10483122	Ventilation, Cooling, & Refrigeration Fundamentals	2
10623106	Intro to AutoCAD	2
10801136	English Composition 1 -or-	
10801195	Written Communication	3
10801196	Oral/Interpersonal Communication -or-	
10801198	Speech	3
Term		(18 credits)
10481110	Building Science, Performance, & Evaluation	3
10482101	Solar Site Assessment & Evaluation	3
10483111	Solar Heating System Design & Installation 2	3
10483130	HVACR Circuits & Controls	3
10809166	Intro to Ethics: Theory & Application	3
10809172	Introduction to Diversity Studies -or-	
10809196	Intro to Sociology	3
Term		(16 credits)
10483115	Heat Load Estimation & Modeling	3
10483131	HVACR Installation & Service	2
10483161	Advanced Renewable Thermal Systems	2
10605117	Programmable Logic Controllers - Beginning	3
10806112	Principles of Sustainability	3
10809122	Intro to American Government	3

Total Credits 68-70

Please Note:

- The Sustainable Heating and Cooling Technician program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

URBAN FORESTRY TECHNICIAN

Program Code 10-001-5

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Urban Forestry Technician program is truly unique. Numerous highly rewarding career opportunities await with employers throughout the country. This program prepares students for careers in arboriculture, landscape management, and urban forestry.

Skills learned include fundamentals of pruning, plant health care, tree planting and maintenance, plant identification, tree risk assessment, and landscape installation and management. The Wisconsin Pesticide Certification Exam is given in class.

An aerial component is included in the curriculum to prepare students for working safely aloft. Opportunities for progressive training in aerial tree work are offered in a series of elective courses. These courses feature both rope and saddle climbing techniques and working with aerial lifts, along with operating brush chippers and other industry equipment.



PROGRAM OUTCOMES

Employers will expect you, as an Urban Forestry Technician graduate, to be able to:

- Explain proper tree care to clients
- Identify and diagnose tree diseases and pests
- Identify trees by common and scientific name
- Plant and maintain commercial and residential landscapes
- Properly prune, plant, maintain, and remove trees and shrubs

CAREER OPTIONS

Arborist in commercial, utility, and
municipal/government tree care programs
Golf Course Arborist
Landscape Contractor/Grounds Technician
Nursery Technician
Plant Healthcare Technician
Vegetation Management

POTENTIAL FOR ADVANCEMENT

Arborist Manager
Commercial Tree Care or Consulting
Company Manager or Owner
Landscape Contractor Manager
Nursery Manager, Grower, or Owner

*Potential advancement generally
requires further education.*

ADMISSIONS PROCEDURES

To apply to the Urban Forestry Technician program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

Written Communication, mathematics courses, and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.
3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
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Tool and Equipment Kit

While the college provides much of the equipment you'll be working with in the hands-on training, there are some items each student is personally responsible for.

MSTC works with industry vendors to get discount prices on professional-grade tools. The equipment kit will cost approximately \$250 - \$300. Students accepted into the program will get specific details about purchasing the equipment.

CURRICULUM

Term	(17-18 credits)
10001118	Landscape Plant Identification 2
10001124	Fundamentals of Aerial Tree Work 2
10001133	Chain Saw Safety and Operation 2
10001173	Urban Tree Maintenance 2
10801136	English Composition 1 -or-
10801195	Written Communication 3
10804107	College Mathematics 3
	-or-
10804118	Intermediate Algebra with Applications 4
10806184	Plant Biology 3

Term	(16 credits)
10001102	Plant Health Care Applicator 2
10001110	Tree Biology 2
10001111	Intro to Horticulture 3
10001121	Tree Crew Practicum 1 -or-
10001125	Aerial Tree Work Practicum 1 2
10001148	People, Resources, and Sustainability 3
10806134	General Chemistry 4

Term	(18 credits)
10001104	Applied Landscape Architecture 2
10001105	Dendrology and Silvics 3
10001138	Landscape & Turf Management I 2
10001199	Intro to Fisheries, Forestry, & Wildlife Resources 3
10801196	Oral/Interpersonal Communication 3
10809166	Intro to Ethics: Theory & Application 3
	Elective 2

Term	(17 credits)
10001103	Applied Urban Forestry 2
10001113	Ornamental Plant Health Care 3
10001139	Landscape & Turf Management II 2
10001149	Ecological Basis for Natural Resource Management 3
10001198	Intro to Soil & Water Resources 3
10809188	Developmental Psychology -or-
10809198	Intro to Psychology 3
	Elective 1

Total credits 68-69

Please Note:

- The Urban Forestry Technician program has August and January start dates. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

WELDING

Program Code 31-442-1

Estimated Tuition and Fees: mstc.edu/programcosts

Median Salary Six Months After Graduation: mstc.edu/programsalaries

The Welding program prepares you for a wide variety of jobs as a welder in production, maintenance, construction, manufacturing, and servicing occupations.

You will study a number of welding processes, including shielded metal arc, gas tungsten arc, gas metal arc, submerged arc, oxyacetylene cutting and brazing, plasma arc, and arc-air cutting. You will also become familiar with various types of metals, fabrication of metals, and welding under codes such as the American Welding Society Code.

When you successfully complete this program, you will be prepared to take welding certification tests.

RELATED PROGRAMS

Industrial Mechanical Technician
Machine Tool Technician

RELATED CERTIFICATES

Gas Metal Arc Welding (GMAW)

Learn a new career in four months! This fast-paced certificate provides students with entry-level welding skills. Courses are process specific, and will address topics like blueprint reading, safety, gas metal arc welding, and basic math. Welders are also in high demand and have good earning potential.

Stainless Steel Welding Basics GTAW

Develop entry-level skills needed to gain employment in this high-demand career. Learn the basics from experienced instructors using the latest technology. Learn at your own pace—no previous experience is required.

PROGRAM OUTCOMES

Employers will expect you, as a Welding graduate, to be able to:

- Demonstrate appropriate safe work habits when operating oxyfuel and electric welding equipment
- Use terminology associated with welding to communicate effectively with coworkers, supervisors, customers, inspectors, engineers, and vendors
- Perform welding operations using the appropriate process on various metals in a variety of situations
- Interpret blueprint and welding symbols to fabricate components
- Analyze given procedures to simulate state weld tests
- Display manipulative skills with various welding processes to assure adequate weld integrity and appearance
- Manufacture and repair of parts using thermal cutting processes to include oxy-fuel, air carbon arc, and plasma cutting equipment
- Set up and operation of fabrication equipment including press brakes, saws, iron workers, punch operations, and tube bending
- Create a plan and construct a product based on an analyzed need within a team environment



CAREER OPTIONS

Combination and Construction Welder
 Counterperson in Distributorship
 Fabricator
 Maintenance Welder
 MIG Welder
 Pipeline Welder
 Production Line Welder
 Shipyard Welder
 Structural Welder
 TIG Welder
 Welder, Fitter
 Welding Repair

POTENTIAL FOR ADVANCEMENT

Certified Welder
 Layout Person
 Owner of Fabrication Shop
 Set-Up Welder
 Tool and Die Welder
 Weld Shop Supervisor
 Weld Tester
 Welding Dealer, Distributor,
 Demonstrator
 Welding Engineer
 Welding Inspector
 Welding Instructor
 Welding Repair Shop Owner

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Welding program, please submit the following documents to the MSTC Admissions Office:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test.
 Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Arithmetic-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable

You may take the Accuplacer again if you did not meet the required scores. Additional options, including coursework and tutoring, are also available to assist you. Contact the Student Services Office on your local campus to learn about your options. To schedule an Accuplacer test, contact your local Campus Office.

3. Submit an official copy of all academic transcripts, including high school, college or university, and HSED/GED.

Mid-State Technical College
Admissions
 500 32nd Street North
 Wisconsin Rapids, WI 54494

CURRICULUM

Term		(15-16 credits)
10442100	Intro to Welding	1
10442110	Gas Metal Arc Welding (GMAW)	3
10442112	Welding Print Reading	2
10442130	Shielded Metal Arc Welding (SMAW)	2
10442132	Metal Cutting Welding	2
10442163	Weld Inspections and Testing	1
10462107	Industrial Safety	2
10804107	College Mathematics	3
	-or-	
32420320	Math for Manufacturing	2

Term		(18-19 credits)
10102130	Career Development -or-	
10801195	Written Communications -or-	
10801199	Employment Strategies	3
10442101	Basic GTAW (TIG)	2
10442102	Intermediate GTAW (TIG)	2
10442111	Intermediate GMAW/FCAW	3
10442103	Advanced GTAW (TIG) -or-	
10442115	Welding Fabrication Techniques	2
10462114	Metals & Machining	3
10623100	Problem Solving & Critical Thinking	1
	-or-	
10623106	Intro to AutoCAD	2
32420312	Metals Science	2

Total Credits 33-35

Please Note:

- The Welding program has an August start date. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability.
- All course descriptions are found beginning on page 114.

Protective Clothing

Students are required to provide their own protective clothing and equipment. Details of the requirements and where they may be purchased are provided by the program instructor at the beginning of each semester.

APPRENTICESHIP



Apprenticeship is a training strategy that combines supervised, structured, on-the-job learning with related instruction and is sponsored by employers, employer associations, or labor/management groups that have the ability to hire and train in a working environment. The related instruction is theoretical and technical, and is usually provided by the Wisconsin Technical College System. The apprenticeship program is governed by the Bureau of Apprenticeship Standards (BAS), www.dwd.wisconsin.gov, in cooperation with the local Joint Apprenticeship Committee (JAC).

Most apprenticeship training programs are three to six years in length. Apprentices work on-the-job in their trade under the supervision of qualified journeymen. As an apprentice, students are trained under a written training agreement called an indenture. While indentured, the employer agrees to teach the student the skills of the trade and the apprentice agrees to learn the skills involved.

Applicants must be at least 18 years of age, have a high school diploma or equivalent, and be physically able to perform the trade. Entry requirements vary by employer. MSTC has skilled faculty to deliver high-quality instruction for apprenticeship programs.

APPRENTICESHIP BENEFITS THE APPRENTICE AND THE EMPLOYER

- Apprentices earn while they learn. They learn a skilled trade while earning a good wage and have a sense of job security.
- Apprenticeship training reduces turnover and apprentices are usually highly productive workers.
- The skills apprentices learn are transferable from one employer to another and generally from one area to another.
- Apprentices are among the most technologically up-to-date workers.
- The program provides employers with a pool of highly-skilled workers from which future managers may be selected.
- Employers' costs in the beginning of an apprenticeship program are minimal.
- Apprenticeship provides state and national recognition.
- Apprenticeship often serves as an entry point into a career that would otherwise be closed to an individual due to lack of experience.

APPRENTICESHIP OCCUPATIONS

An apprenticeship occupation involves manual, mechanical, or technical skills and knowledge that requires a minimum of 2,000 hours of on-the-job work experience. It also requires an average of 400 hours of related classroom instruction to supplement the on-the-job training. Related instruction offered at MSTC is available for the following occupations.

ABC Electrician
ABC Heavy Equipment Operator
Carpenter
Electric Metering Technician
Ironworker
Maintenance Mechanic/Millwright
Plumber
Steamfitter
Steamfitter Service

For additional information about apprenticeship programs and benefits, call 715.389.7045 or email apprenticeship@mstc.edu.

**BARBER/COSMETOLOGY
INSTRUCTOR**

Technical Diploma • 8 Credits
Course Number 30-502-1
Wisconsin Rapids Campus

Overview

The program meets the requirements established by the Wisconsin Department of Safety and Professional Services. Those requirements identify 162 hours of instruction in four areas: Orientation, Teaching Skills, Facilitating/Managing Skills, and Supervised Teaching.

For more information, contact Barb Jascor at barb.jascor@mstc.edu.

**CRIMINAL JUSTICE-LAW
ENFORCEMENT 520 ACADEMY**

Technical Diploma • 16 Credits
Course Number 30-504-1
Wisconsin Rapids Campus

Overview

To become a law enforcement officer in the State of Wisconsin, persons are required to meet requirements (520-hours) established by the Wisconsin Department of Justice. The MSTC Law Enforcement Recruit Academy provides an avenue for meeting those requirements.

For more information, contact Clark Pagel at clark.pagel@mstc.edu.

**CRIMINAL JUSTICE-LAW
ENFORCEMENT CERTIFICATION
TRACK-DAAT**

Course • 2 Credits
Course Number 10-504-181
Wisconsin Rapids Campus

Overview

This 54-hour course is a required component for Wisconsin Department of Justice Law Enforcement Officer Certification. The course includes instruction in the use of defensive and arrest tactics and the appropriate use of force in disturbance resolution.

Prerequisites: Admission to Criminal Justice-Law Enforcement program 105041 and completion of the first and second semesters of Criminal Justice-Law Enforcement program curriculum.

For more information, contact Clark Pagel at clark.pagel@mstc.edu.

**CRIMINAL JUSTICE LAW
ENFORCEMENT CERTIFICATION
TRACK-FIREARMS**

Course • 2 Credits
Course Number 10-504-182
Wisconsin Rapids Campus

Overview

This 54-hour course is a required component for Wisconsin Department of Justice Law Enforcement Office Certification. The course includes instruction in the use of law enforcement firearms and deadly force decision making. *Prerequisites: Admission to Criminal Justice-Law Enforcement program 105041 and completion of the first and second semesters of Criminal Justice-Law Enforcement program curriculum.*

For more information, contact Clark Pagel at clark.pagel@mstc.edu.

**CRIMINAL JUSTICE LAW
ENFORCEMENT CERTIFICATION
TRACK-TRAFFIC**

Course • 4 Credits
Course Number 10-504-183
Wisconsin Rapids Campus

Overview

This 108-hour course is a required component for Wisconsin Department of Justice Law Enforcement Officer Certification. The course includes instruction in the use of emergency vehicle operation and control, vehicle contacts, operating a motor vehicle while intoxicated/standardized field sobriety testing, and tactical response.

Prerequisites: Admission to Criminal Justice-Law Enforcement program 105041 and completion of the first and second semesters of Criminal Justice-Law Enforcement program curriculum.

For more information, contact Clark Pagel at clark.pagel@mstc.edu.

EMT-ADVANCED*
Technical Diploma • 4 Credits
Course Number 30-531-6
Wisconsin Rapids Campus**Overview**

EMT-Advanced is a 180-hour program. This curriculum prepares the student with the knowledge and skills to work competently as an entry-level advanced

EMT. The program consists of classroom lectures, practical skill labs, laboratory simulations, and hospital and pre-hospital clinical experiences.

* State approved program title is Advanced EMT.

For more information, contact Rick Anderson at rick.anderson@mstc.edu.

EMT-INTERMEDIATE*
Technical Diploma • 8 Credits
Course Number 30-351-7
Wisconsin Rapids Campus**Overview**

EMT-Intermediate is a 335-hour program. This curriculum prepares the student with the knowledge and skills to work competently as an entry-level EMT-intermediate. The program consists of classroom lectures, practical skill labs, laboratory simulations, and hospital and pre-hospital clinical experiences.

* State approved program title is Intermediate.

For more information, contact Rick Anderson at rick.anderson@mstc.edu.

FIRE SERVICE TRAINING**Overview**

MSTC meets the needs of local fire departments and private employers by providing state-certified firefighting courses, FEMA approved courses, numerous safety and leadership courses, and custom-tailored courses. Within the MSTC service area, 38 fire departments provide fire protection service to the residents of Wood, Portage, and Adams counties.

MSTC currently offers evening and weekend courses throughout the calendar year. Students have the opportunity to earn a wide array of IFSAC fire certifications, including Firefighter I, Firefighter II, Fire Officer I, Fire Inspector, and Emergency Services Instructor. Training sites are located at Wisconsin Rapids Campus and through the joint training center with the Marshfield Fire and Rescue Department. Outdoor training facilities include two splashboards within the district, two live fire training simulators (burn building), and various other training props to simulate real-world situations.

For more information, contact Barb Jascor at barb.jascor@mstc.edu.

COURSE DESCRIPTIONS

LEGEND

MSTC course descriptions are listed here and are organized by subject. If you are in a program or planning to start a program soon, please check with your department, advisor, or counselor to find out which courses you are required to take for your program. The descriptions in this document are accurate as of press time. For the most-up-to-date description, please see the MSTC website or check with your department office.

WHAT DO THE NUMBERS MEAN? 10001102

- The first two numbers, 10, indicate the course approval code by Wisconsin Technical College System.
- The next three numbers, 001, indicate a horticulture course.
- The sixth number, 1, indicates it is an associate degree course.
- The last two numbers, 02, indicate this course is Plant Health Care Applicator.

PREREQUISITES AND COREQUISITES

Prerequisite: A course, program, or other requirement that must be successfully completed before taking the next course in the sequence.

Corequisite: A course, program, or other requirement that must be taken at the same time as another course and be successfully completed before taking the next course in that sequence.

001 HORTICULTURE

10001102 • 2 credits

Plant Health Care Applicator

The focus of this class is training to successfully pass the Wisconsin Department of Agriculture and Consumer Protection's pesticide applicator exam (which will be proctored in this class). Additionally, students are familiarized with chemical handling, mixing, calibration, and application via field exercises.

10001103 • 2 credits

Arboriculture

Gain familiarity with several techniques, tools, and pieces of equipment used in the management of trees and tree populations. This course also serves to create an awareness of arboricultural careers as applied to commercial, municipal, and utility employers.
Prerequisites: Urban Tree Maintenance 10001173 and Tree Biology 10001110

10001104 • 2 credits

Applied Landscape Architecture

Introduces the student to the landscape design process, a structured approach for shaping outdoor settings for human use and enjoyment. Develop skills in graphic techniques to communicate your landscaping ideas in plan drawings and sketches. Gain experience in presenting your ideas before large and small groups.
Prerequisites: Admission to Urban Forestry Technician program 100015 and Landscape Plant Identification 10001118

10001105 • 3 credits

Dendrology and Silvics

This course provides the student with an understanding of how trees interact with their environment and with one another, at different spatial and temporal scales. This course builds on concepts from botany and ecology with an emphasis on woody plant systematics and silvics. Tree identification is a major component of this course.

Prerequisites: Landscape Plant Identification 10001118 and Plant Biology 10806184

10001110 • 2 credits

Tree Biology

An overview of the tree system with an emphasis on growth and development, compartmentalization of wounds, and how the tree adapts to the urban environment.

Prerequisites: Admission to Urban Forestry Technician program 100015 and Introduction To Plant Biology 10001147

10001111 • 3 credits

Intro to Horticulture

This course provides an overview of the science and profession of horticulture. Its role and importance throughout history, current trends, and careers are covered. Particular attention is given to horticultural crops, their use and interrelationships among the environment, plant growth, and plant development.

10001113 • 3 credits

Ornamental Plant Health Care

Classification and identification of important ornamental plant insects,

diseases, and abiotic agents is presented, emphasizing their modes of plant damage. Diagnostics, damage assessment, sample preparation, and control strategies are introduced.
Prerequisites: Landscape Plant Identification 10001118 and Plant Health Care Applicator 10001102

10001118 • 2 credits

Landscape Plant Identification

This course introduces students to woody trees/shrubs and herbaceous plants commonly used in residential and commercial landscapes in Wisconsin. The three plant groups covered in this course are woody trees/shrubs, herbaceous perennial plants, and herbaceous annual plants. Identification, installation, and maintenance are covered for each plant group.

10001124 • 2 credits

Fundamentals of Aerial Tree Work

Introduces students to the basic safety requirements, equipment, and techniques employed by arborists who work aloft. Topics include applied rope-and-saddle and aerial lift usage, electrical hazard recognition, and common knots used in the industry.
Corequisites: Urban Tree Maintenance 10001173 and Chain Saw Safety and Operation 10001133

10001125 • 2 credits

Aerial Tree Work Practicum 1

This course emphasizes implementation of the basic requirements and techniques employed by arborists who work aloft. Students perform independent study activities and

participate as members of a working crew, gaining introductory experience in tree pruning, rigging, hardware installation, electrical hazard awareness, aerial rescue, ground work, and worksite management.

Prerequisites: Fundamentals of Aerial Tree Work 10001124, Urban Tree Maintenance 10001173, and Chainsaw Safety and Operation 10001133

10001126 • 2 credits

Aerial Tree Work Practicum 2

This course builds on the knowledge and skills learned in Aerial Tree Work Practicum 1, including independent study activities of a progressively more comprehensive nature. Students assume roles of crewleader as they participate in tree pruning, rigging, hardware installation, electrical hazard awareness, aerial rescue, ground work activities, and worksite management.

Prerequisites: Aerial Tree Work Practicum 1 10001125

10001127 • 2 credits

Aerial Tree Work Practicum 3

This course builds on the knowledge and skills learned in Aerial Tree Work Practicum 2, including independent study activities of a progressively more comprehensive nature. Students assume roles of sales arborist/operations manager as they participate in tree pruning, rigging, hardware installation, electrical hazard awareness, aerial rescue, and ground work activities.

Prerequisites: Aerial Tree Work Practicum 2 10001126 or valid First Aid card or equivalent college coursework

10001133 • 2 credits

Chain Saw Safety and Operation

This course familiarizes students with common chainsaw practices within the urban forestry industry. Personal protective equipment, safe operation, routine maintenance, and common cutting techniques in accordance with current industry standards is emphasized. Students operate chainsaws in a variety of field exercises that simulate tree removal operations. Additional exposure to relevant pieces of industry equipment is included.

10001136 • 2 credits

Nursery & Garden Center Management I

This course provides an overview of

landscape nursery production and retail garden center operations. Special attention is given to basic business strategies and fall-season plant management practices.

Prerequisite: Urban Tree Maintenance 10001173

**10001137 • 2 credits
Nursery & Garden Center Management II**

Production of trees, shrubs, perennial plants, and annual plants is the focus of this course. Students study specific cultural practices associated with indoor and outdoor growing of landscape plants. Plant growth requirements, labor considerations, and equipment/facility needs are stressed.

10001138 • 2 credits

Landscape & Turf Management I

Students learn all aspects of landscape and turf management during the fall season. Emphasis is on planning and installation of living and non-living landscape materials and turf. Estimating and time management are also key components of this course.

Prerequisites: Landscape Plant Identification 10001118 and Urban Tree Maintenance 10001173

10001139 • 2 credits Landscape & Turf Management II

Students learn all aspects of landscape and turf management during the spring season. Emphasis is on planning and installation of living and non-living landscape materials and turf. Estimating and time management are also key components of this course.

Prerequisite: Landscape & Turf Management I 10001138

10001147 • 1 credit

Advanced Studies in Plant Biology

This course builds on plant biology with emphasis on growth, reproduction, and cellular morphological and physiological processes. In combination with the three-credit Plant Biology course 10806184, this will satisfy UW-Stevens Point's Plant Biology requirement for transfer.

Prerequisite: Plant Biology 10806184

10001148 • 3 credits

People, Resources, and Sustainability

This course explores the relationship between the human population and natural resources over time, and

the effect this relationship has on the biosphere. Global resources, environmental concerns, and the human dimensions of resource management are explored from biological and socioeconomic perspectives.

10001149 • 3 credits

Ecological Basis for Natural Resource Management

This course introduces the basic principles of ecology and their application to management of natural resources. The scientific method and interactions between and among species are examined. Lab exercises are designed to give hands-on experience with measurement and data collection, preparation of technical reports, use of library resources, use of computer models, and development of critical thinking skills.

Prerequisite: Plant Biology 10806184

10001173 • 2 credits

Urban Tree Maintenance

The art and science of tree pruning are the primary objectives of this course. Young tree training and mature tree maintenance are practiced. Proper pruning cuts and techniques specified in the ANSI A300 Pruning Standard are taught throughout this class.

10001198 • 3 credits

Intro to Soil & Water Resources

Introduces the student to integrated concepts of soil and water resources at the landscape level. Physical, chemical, and biological interactions relating to watershed processes and response to land use and management.

Prerequisites: General Chemistry 10806134 and Plant Biology 10806184

10001199 • 3 credits

Intro to Fisheries, Forestry, & Wildlife Resources

Integrated introduction to principles and practices of fisheries, forestry, and wildlife management, including production of goods and services while maintaining ecosystem integrity and functions. Emphasis on contemporary issues.

COURSE DESCRIPTIONS

080 PRODUCTION AGRICULTURE

10080101 • 1 credit

Soils

Soil formation and how it is managed is the basis of farming. This course deals with the development of soil, the major types of soil in Wisconsin, the role of organic matter, the effect of proper tillage, and water and soil conservation practices and their role in economic crop production. USDA soil survey maps are used to look at capabilities of different soils.

10080102 • 2 credits

Soil Fertility & Nutrient Management

Soil is the foundation on which farming is based. Studying soil testing, fertility, fertilizers, and their economical use in crop production are a major portion of this course. Nutrient Management Plans are explored, along with how they are used to record and help determine fertility and conservation needs for a farm.

10080105 • 3 credits

Soil Science

Learn basic soil types and how to identify them. Also the science behind testing soils for agricultural usage and environmental impact.

Prerequisite: Beginning Lab Science 10506101

10080110 • 1 credit

Animal Health

Learn basic knowledge about disease identification, prevention, and treatment. Other topics include understanding animal health terminology, digestive and nutritional disorders, cow/calf management systems, bio-security, and best management practices of animal health.

10080111 • 2 credits

Animal Reproduction

Learn and explain the proper management and care for a dairy herd to maximize profits and production. Emphasis is on the breeding of dairy cattle, with both genetic improvement and conception considered. Methods to prevent and treat reproductive diseases are discussed.

10080120 • 2 credits

Ruminant Animal Nutrition

This course deals with the practical day-to-day feeding of dry and lactating dairy cows, dairy heifers, and dairy steers. The development of the digestion system and its function in nutrient metabolism and ration formulation is examined. Emphasis is placed on the role of quality forages in these rations.

10080140 • 3 credits

Farm Financial Analysis

This course identifies farm recordkeeping skills and provides the student opportunities to develop these necessary business skills for operating a successful farm business. These skills include recording livestock and crop information, calculating depreciation and capital gains, gathering federal and state tax form information, calculating inventories, developing budgets, formulating yearly credit needs, and conducting a financial farm business analysis.

31080309 • 1 credit

Milk & Milk Products

Means of producing quality milk and methods of determining quality are considered. Utilizing milk in various dairy products, and consumer demands and choices, are studied.

31080310 • 2 credits

Raising Dairy Replacements & Dairy Beef

Selection, feeding, housing, disease control, and other recommended practices in raising dairy replacements are studied. Stresses the economics of dairy beef production, and how feeding and management of dairy beef differs from raising dairy replacements.

31080316 • 1 credit

Livestock Production

Swine feeding, breeding, housing, and management are studied. The breeding herd, feeder pigs, and market hogs are considered for each of the above. The beef enterprise is studied from selection and breeding of the cow herd to marketing the finished animal.

31080318 • 1 credit

Farm Accounting

Introduces students to computerized accounting methods for effective farm operation.

31080320 • 2 credits

Farm Maintenance

Troubleshooting and problem solving the various maintenance issues that arise in farming operations. To include electrical, plumbing, fencing, machinery, and building maintenance and repair.

31080322 • 1 credit

Farm Business Planning

Students develop a comprehensive business plan for a farm operation. To include labor plan, job descriptions, financial plan, and insurance requirements.

31080347 • 1 credit

Farm Chemicals

Pest identification (e.g., weeds, insects, plant diseases) and their control both by cultural means and chemical application are considered. Safety in the use of chemicals from a personal view and from an environmental aspect is emphasized.

31080352 • 2 credits

Corn, Grain, & Seed Production

Deals with the production of corn and small grains adapted to the area. Varieties and seed selection, planting and harvesting practices, fertilization, grain storage, and economical marketing of the crop are covered in detail.

31080353 • 2 credits

Forage Crops

Attention to the adaptation, management, and utilization of recommended varieties of grasses, and legumes, the establishment of both temporary and permanent pastures, the value of these crops as soil builders, and their use for feeding various classes of livestock.

31080365 • 1 credit

Farm Law

Procedures and practices to be followed in leasing and purchasing farms, methods of family farm transfer, and common legal problems that concern farmers is covered. Emphasis is on preventing disputes and developing an awareness of when legal assistance is needed.

31080367 • 1 credit

Marketing (Including Co-Ops)

Designed to provide authoritative information on basic principles of

marketing for products generally common to members of the class. When, where, and how to market products and related information such as regulation & supervision of marketing-specific products, understanding market news, price cycles, and the use of cooperatives for marketing purposes are included.

331080372 • 1 credit

Farm Computers

Introduces the use of computers on the farm and utilizing prepared farm management programs. Identifies considerations as to need for a computer on the home farm and how to select software and hardware.

31080376 • 1 credit

Economics of Farm Equipment

Machinery selection, needs, and maintenance are discussed. Ownership and operating costs are calculated. Alternatives to ownership such as leasing and custom hire are compared. Includes a unit on safety.

31080380 • 1 credit

Farm Buildings & Dairy Cattle Housing

Course covers arrangements and design of efficient farm buildings, as well as construction requirements. Farmstead planning includes mapping of present facilities as they exist, evaluating how useful they are, and planning long- and short-range goals for changes in the farmstead arrangement to improve economic, labor, and aesthetic values. Environmental needs of dairy cattle are identified. This includes space, ventilation, and insulation needs. Planning of dairy facilities to improve labor efficiency and opportunity for future expansion is also presented.

31080390 • 1 credit

Communications

Designed to teach or improve students' use of correct principles of writing, speaking, reading, and listening.

**090 FARM BUSINESS
MANAGEMENT**

30090381 • 3 credits

Operating the Farm Business

Emphasizes management skills and concepts necessary for first-year student to continue farming in today's

changing technology and farm business financing. It builds the foundation for other courses. Special emphasis is given to establishing and recording farm business and family goals. Students will organize and maintain the farm business records and interpret and analyze records to assist in making sound farm management decisions. All competencies will be assessed using the student's farm or with simulations established by the instructor.

30090382 • 3 credits

Soils Management

Instruction is provided on how to prepare and implement a land use plan, and take and understand soil testing procedures and reports. Students receive instruction to implement fertilizer recommendation and establish budgets. Included is instruction on the application of farm manure, chemicals, soil conservation practices, and the management and safe use of farm machinery and equipment.

30090383 • 3 credits

Crop Management

Instruction is provided on all phases of crop production, management, and economics. Specific topics relate to variety, selection, planning, pest control, harvesting, storage, safety, and marketing. Crop management emphasizes the analysis of the farm business and planning of cropping practices and strategies.

30090384 • 3 credits

Livestock Nutrition

Emphasizes the skills, techniques, and concepts necessary for sound feeding management; determining feed values; economics of feed; nutritional terminology and requirements; feed consumption of livestock; understanding feed tag labels; and feed analysis reports for protein, energy, minerals and vitamins.

30090385 • 3 credits

Livestock Management

Instruction is provided on the various phases of selection, breeding, herd health, raising of replacement stock, and marketing livestock and livestock products. Includes selection, operation, and maintenance of milking, feed, ventilation, manure handling, equipment, and farm buildings. In

addition, the livestock program is related to the total farm enterprise in a business analysis.

30090386 • 3 credits

Farm Records & Business Analysis

Emphasizes the practical use of a farm record system in managing the farm through farm and financial analysis. Includes the establishment of farm business goals, selection and use of farm credit, farm business arrangements, farm estate planning, and farm income taxes. Instruction is provided on the use of computers and/or computer records and financial analysis of the farm business and finance strategy to meet the students' needs.

30090387 • 1 credit

**Farm Business & Production
Management Update**

Available to students who have completed the course offerings in the Farm Training program. Topics include crop production, dairy management, and financial management issues.

101 ACCOUNTING

10101111 • 4 credits

Accounting I

A beginning course designed especially for majors or those who need a strong foundation in accounting principles. Develops the accounting cycle of journaling, posting, adjusting, closing, and reporting. It emphasizes service and merchandising sole proprietorships in developing the accounting cycle. Explores issues for accounting for cash, accounts and notes receivable, inventories, and fixed assets.

10101113 • 4 credits

Accounting II

Studies accounting procedures for partnerships and corporations. Issues involving incorporation are reviewed. Accounting procedures for corporate stock, dividends, retained earnings, bonds, and long-term investments are presented. Analysis of financial statements is introduced and statements of cash flows are prepared.
Prerequisite: Accounting I 10101111

COURSE DESCRIPTIONS

10101115 • 4 credits

Accounting III

Builds on accounting concepts in Accounting I and II, and details the accounting for assets using generally accepted accounting principles, incorporates the time value of money and defends the role of the Financial Accounting Standards Board.

Prerequisite: Accounting II 10101113

10101117 • 4 credits

Accounting IV

Examines accounting issues and the application of generally accepted accounting principles to those issues. Some issues examined are liabilities, long-term financing, capital stock issues, revenue recognition, capital leases, deferred taxes, earnings per share, and accounting changes.

Prerequisite: Accounting III 10101115

10101120 • 3 credits

Payroll Accounting

Develops a working knowledge of payroll legislation, payroll records, and payroll accounting. Payroll accounting is accomplished through manual methods and automated methods.

Corequisites: Accounting I 10101111 and Microsoft Office-Introduction 10103106

10101123 • 3 credits

Income Tax Accounting

Applies current tax laws in preparing individual tax returns and supporting forms and schedules.

10101124 • 3 credits

Business Taxation

Students apply current tax law to the preparation of corporate, partnership, S corporation, and other entities. Examine income tax laws and regulations as they pertain primarily to businesses. A detailed examination of the special rules that apply to the various business entities is covered. The preparation of Forms 1065, 1120, 1120S, and 1041 enable students to have practical experience with these business-related forms. Tax planning is also covered. Students are encouraged to attain practical tax experience, either as a tax volunteer, or a paid preparer in the local accounting community.

10101125 • 3 credits

Cost Accounting

Accumulates production costs for materials, labor, and overhead for job order or process costing systems. Determines and records variances from standard. Computes various cost-volume-profit relationships for control and decision making.

Prerequisite: Accounting II 10101113

10101128 • 3 credits

Managerial Accounting

Develops managerial and finance analytical and decision-making skills. Develops an appreciation of the financial statements as a framework for controlling the activities of a business entity, the ability to do financial statement analysis and forecasting, and make recommendations for appropriate courses of action based on the results. Examines the methodology and develops the skills to manage leverage, working capital, and long-term financing. Examines the American financial system and how the business entity functions within it. Develops an appreciation for the skills needed to determine the time value of money. Prepares cash flow, operating, and capital budgets.

Prerequisite: Accounting II 10101113

10101129 • 3 credits

Accounting: Computerized

Uses the computer as a tool to reinforce and build on accounting concepts, prepares financial statements and managerial reports, produces business documents, and accounts for service and merchandising business entities. Explores Excel worksheet applications for accountants.

Prerequisites: Accounting I 10101111 and Beginning Excel 10103123 or Microsoft Office-Introduction 10103106

10101130 • 3 credits

Accounting Systems

Designs management and accounting information systems for service, merchandising, and manufacturing business entities including data collection, data processing, data storage, information distribution, and internal controls; prepares oral and written reports; and produces individual and group projects.

Prerequisite: Accounting II 10101113

10101131 • 3 credits

Governmental Accounting

The basic concepts, techniques, and terminology of fund accounting as utilized by governmental entities are emphasized. Institutional accounting for educational institutions and hospitals, and the uniqueness of accounting for not-for-profit organizations and agencies, are also studied.

Prerequisite: Accounting II 10101113

10101133 • 1 credit

QuickBooks for Small Business

Introduction to the theory behind and application of QuickBooks software in a small business environment.

102 BUSINESS ADMINISTRATION

10102101 • 3 credits

Intro to Business

An introduction to what a business is, how it operates, and how it is managed. Students identify forms of ownership and the processes used in production and marketing, finance, personnel, and management in business operations.

10102103 • 3 credits

Business Law & Ethics

This course introduces the student to basic ethical theories and value systems. Students apply these perspectives to moral issues, problems, and situations which arise within the business environment. Emphasis is placed on how the applicable laws are being interpreted.

10102104 • 3 credits

Business Law

This course introduces the student to the basic foundation of laws and regulatory systems applicable to the business environment. Students examine the UCC, contract torts, agency law, and business and cybercrime. Students apply business legal theory in conjunction with ethical decision making through practical application.

10102110 • 3 credits

Employment Law

Introduces a broad scope of employment laws and provides the opportunity to apply these laws to the

employment arena. Laws relating to anti-discrimination, including the Civil Rights Act, ADEA, and ADA; wage and hour regulation, including FLSA; employer-provided pensions, including ERISA; health insurance, including COBRA; and unemployment and worker's compensation insurance are covered.

10102117 • 3 credits

Business Finance

This course introduces the basic concepts needed for firms to efficiently control the flow of money within a business to balance profitability with risk. Students determine the financial impact of quality programs on a company, analyze financial statements using ratio analysis and industry comparison data, determine break-even points and leverage, compare alternatives for short- and long-term financing, explore options for global financing, and prepare a cash budget and pro forma financial statements for a firm.

Prerequisite: Accounting I 10101111

10102120 • 3 credits

Customer Service Management

The learner applies the skills and tools necessary to manage and measure the customer service function. Learners practice quality customer service, develop customer service plans, train and develop staff in quality customer service, measure the effectiveness of customer service, and lead continuous improvement of customer service.

10102130 • 3 credits

Career Development

This course is designed to prepare learners for the process of gaining employment. Learners assess their personal background; practice finding career opportunities through the job search process; develop a cover letter, resume, thank you letter, and complete a job application; participate in a mock interview; and demonstrate how to deal with interpersonal situations found in a work environment.

NOTE: To enroll, you must have completed 50% of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

10102131 • 3 credits

Entrepreneurial Management

This course is designed to introduce students to the concept of entrepreneurship. Students study entrepreneurial practices primarily by developing a business plan for a venture of their choice. This includes comparing ways of going into business, and developing marketing, legal, financial, products/services, management, and operations plan for a small business of their choice. Entrepreneurial behavior within companies is examined.

Prerequisite: Twelve Business Management 10-102 credits or twelve Supervisory Management 10-196 credits or a combination of Business Management 10-102 and Supervisory Management 10-196 credits that total twelve.

10102147 • 3 credits

Principles of Management

This course introduces the student to the job of management in organizations. An understanding of the roles and tasks of all levels of management in the functions of organizational planning, controlling, staffing, leading, and controlling is developed.

10102160 • 3 credits

Business Decision Making

This course develops skill to enable students to make individual decisions and participate in and facilitate group decisions in pursuit of the goals and objectives of an organization. Students analyze decision-making environments, employ a systematic decision-making process, use creative and analytic thinking tools for information gathering and analysis, employ ethical and social standards, contribute in group decision making, and facilitate the group decision-making process.

Prerequisites: Twelve Business Management 10-102 credits, Human Resources Management 10196193, and Supervision 10196191. Corequisite: Business Finance 10102117 (Business Finance 10102117 may not be used to satisfy the twelve Business Management 10-102 credits).

10102169 • 1 credit

Advanced Critical Thinking

Advanced Critical Thinking (Analytic Problem Solving) is an in-depth training

program that teaches participants how to identify, diagnose, and solve product, process, and equipment problems. The basic theory behind analytic problem solving is that the only way to resolve a problem is to eliminate the root cause. The program provides participants with a common language and systematic problem-solving approach to identify that root cause.

10102180 • 3 credits

International Business

This course introduces topics concerning international business while illustrating its scope and importance. Topics include the impact of geography, trade protectionism, culture, legal structure, politics, and currency on business dealings. Students will also research a particular country in depth.
Corequisite: 10102101 Intro to Business

10102198 • 2 credits

Core Business Skills

Students build skills in critical core business skills.

10102199 • 3 credits

Business Management Internship

This course integrates Business Management classroom study with specific off-campus occupational experiences at selected training sites. An organized plan of experiences built around business management competencies is planned, supervised, and evaluated by the instructor and cooperating business trainer.

Prerequisite: Twelve Business Management 10-102 or Supervisory Management 10-196 credits.

103 COMPUTER SOFTWARE

10103102 • 1 credit

Windows Operating Systems

Introduces students to the components of a computer system, computer software, and computer terminology. Develops skill in Windows basics, working with files with Windows, organizing files with Windows Explorer, and customizing Windows for increased productivity. Course also addresses office ergonomics, types of software and copyright issues, and email using Microsoft Outlook.

COURSE DESCRIPTIONS

10103106 • 3 credits

Microsoft Office-Introduction

Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, and PowerPoint) while reinforcing the students' knowledge of computer concepts, file management, the Internet, and MSTC student email usage through demonstrations and lab exercises. Students must possess basic keyboarding, mouse, and Windows skills. Students may develop these skills in the Learning Commons computer training prior to enrolling or while concurrently enrolled in the Microsoft Office-Introduction course.

10103113 • 1 credit

Word-Beginning

Students learn how to create, modify, and save documents. Students also learn to insert, delete, and move blocks of text as well as boldfacing, underlining, and lists. Page formatting, searching for text, and spell checking are also covered. Popular word processing applications include the generation and better management of letters, memos, and other forms of written documents.

10103114 • 1 credit

Word-Intermediate

Students create columns, lists, indexes, footnotes, endnotes, and table of contents. Outlines, paragraph numbering, mail merges, sorts, macros, thesaurus, and graphics are also covered.

Prerequisite: Microsoft Office-Beginning 10103106 or Word-Introduction 10103113

10103123 • 1 credit

Excel-Beginning

Develop skill to create and modify spreadsheets using commands, functions, and formulas. Popular spreadsheet applications include general ledger, budgets, inventory control, and sales records. Essentially, any data that can be represented in rows and columns is a candidate for an electronic spreadsheet application.

10103124 • 1 credit

Excel-Intermediate

Develop skill to write and debug macros, create custom menus, perform database functions, and develop graphs.

Prerequisite: Microsoft Office-Introduction 10103106 or Excel-Beginning 10103123

10103133 • 1 credit

Access-Beginning

Students learn to create and modify a database. Students also learn to use commands and formulas to do sorting and indexing applications. Databases enable users to organize large amounts of interrelated data accurately and without redundancy. Popular database applications on a larger scale include personnel filing systems and accounting systems. On a smaller scale, databases can be used for generating mailing lists and keeping track of home recipes.

10103134 • 1 credit

Access-Intermediate

Students develop advanced indexing, logical and decision-making commands, access multiple files, and create menus and command files.

Prerequisite: Microsoft Office-Beginning 10103106 or Access-Introduction 10103133

10103160 • 1 credit

PowerPoint-Beginning

Prepares the student to use presentation graphic software to develop overhead transparencies and 35mm or electronic slides for manual or electronic presentations, develop presenter outlines and notes, and effectively deliver the presentation.

10103192 • 3 credits

Web Principles: HTML/Expression Web

This course provides an introduction to web page development, with a strong focus on hypertext markup language (HTML) and Microsoft Expression Web. The course also addresses design and deployment issues as they relate to web page development, including graphics, fonts, layout, accessibility, and usage.

Corequisite: Windows Operating Systems 10103102 or Microsoft Office-Introduction 10103106

104 MARKETING

10104102 • 4 credits

Marketing Principles

Students study the practices and methods of manufacturers and distributors in the marketing of goods and services. Product planning, pricing strategies, distribution systems, channel activities, and the role of government,

as well as other factors influencing marketing today are emphasized.

10104105 • 3 credits

Selling Principles

Students develop the kind of sales techniques that encourage customers to believe in the integrity of the salesperson and the product. Subjects include handling customers' tangible and intangible needs, attitude conversion, sales strategies for a variety of conditions, and the changing form of selling techniques. Focuses on the need for a sales personality and the importance of psychology and creativity in selling.

10104107 • 3 credits

Social Media Marketing

This course addresses how social media has transformed marketing communications from traditional mass media to individualized marketing. Using social media tools such as Facebook, YouTube, Twitter, LinkedIn and more, this class explores the different methodologies for social media marketing. Topics addressed include creating social media, integrating social media as part of a marketing campaign, the concept of viral marketing, ethical and potential legal concerns that have arisen over these forms of communication, and how organizations and individuals have successfully applied social media marketing.

10104120 • 3 credits

Media Strategies

This course prepares the student to compare, evaluate, and select different advertising mediums. It includes analyzing media purchasing strategies and the design and development of effective advertising for each medium. Additional topics include the evaluation of survey information and pricing methodology for each medium.

Corequisite: Marketing Principles 10104102

10104125 • 4 credits

Promotion Principles

This course focuses on non-personal communication about product services, image, or ideas to influence customer behavior. Topics include advertising, sales and visual promotion, public relations, and managing the promotion function.

10104135 • 3 credits**Marketing Internship**

This course integrates classroom study with industry-specific occupational experience. It provides the student with practical, on-the-job work experience through competencies that are planned, supervised, and evaluated by the instructor and/or a cooperating industry representative.

Prerequisite: Consent of instructor

10104160 • 4 credits**Marketing Decision-Making**

Examines the marketing function from the manager's perspective. Topics include management functions, decision making in regard to the customer, product planning, pricing strategies, evaluation of distribution channels, and promotional tactics.

Prerequisite: Twelve Marketing 10-104 credits

10104174 • 3 credits**Marketing Research**

Primarily for students with previous business courses or work experience. Introduces techniques of research and research reporting. The study of market behavior is pursued as students undertake several well-ordered research projects in their career fields.

Prerequisite: Marketing Principles 10104102

10104180 • 3 credits**E-Commerce Principles**

This course provides an overview of electronic commerce. Business models underlying these electronic commerce applications are studied from both operational and strategic perspectives. A review is made of World Wide Web technology trends including electronic payments and related issues of authentication, security, privacy, intellectual property right, and tax implications.

106 OFFICE SYSTEMS/ TECHNOLOGY

10106130 • 1 credit**Keyboarding**

Develops basic keyboarding skills, including alphabetic and numeric keys, symbols, and characters by the touch typing method. This class is designed

for those students entering a variety of fields such as data processing, marketing, real estate, personnel, or any occupation that uses a keyboard to input information. Successful achievement is 30 WPM.

10106135 • 2 credits**Supervised Field Experience**

This course integrates Administrative Professional classroom study with specific off-campus occupational experiences at selected training sites. An organized plan of experiences built around office competencies is planned, supervised, and evaluated by the instructor and cooperating business trainer.

Prerequisite: Completion of at least 24 credits of Computer Software 10-103 courses and/or Administrative Professional 10-106 courses, or consent of instructor.

10106140 • 3 credits**Business Information Management**

Following commonly-used ARMA rules, the student applies basic filing methods to paper and database filing systems. Methods to permanently archive data are also covered.

Corequisite: Microsoft Office-Introduction 10103106

10106150 • 3 credits**Administrative Office Procedures**

Develops professional skills and attitudes needed in a global business environment. Skills include time management, problem solving, and decision making while working independently and as part of a team. Tasks such as electronic mail, calendaring, meeting and event planning, domestic and international travel, and project management and minute-taking are included. Familiarity with office machines is required.

Corequisites: Written Communication 10801195 and Microsoft Office-Introduction 10103106

10106157 • 3 credits**Document Formatting**

The competencies for this course cover formatting styles of business letters, business and academic reports, memos, tables, business meeting documents, itineraries, legal documents, and business forms. The course also includes drill work for improving keying

speed and accuracy. Minimum typing speed of 30 wpm required (alphabetic keys only).

Corequisite: Microsoft Office-Introduction 10103106

10106160 • 3 credits**Proofreading & Editing**

This course is designed to sharpen proofreading and editing skills. Competencies cover detecting and editing errors in keying, spelling, capitalization, plurals, possessives, punctuation, numbers, grammar, sentence structure, and formatting. Documents are edited for clarity, conciseness, and completeness.

Corequisite: Microsoft Office-Introduction 10103106

10106162 • 3 credits**Graphics & Print Media**

This course develops skill to effectively create graphics and design publications. Students will produce print media, design, and layout print jobs using the most appropriate software package for the job.

Corequisite: Microsoft Office-Introduction 10103106

10106172 • 3 credits**Digital Communication Technology**

The course introduces the student to digital and communication technology used in the office today, including voice recognition, digital cameras, digital video cameras, video conferencing, web conferencing, and teleconferencing. Content focuses on understanding communication technologies and how they impact employees.

Corequisite: Microsoft Office-Introduction 10103106

10106180 • 3 credits**Advanced Software Applications**

This course integrates multiple advanced software applications by utilizing concepts such as importing/exporting, linking/embedding, and copying/pasting. Students manage information and apply critical-thinking skills to create professional documents simulating real-world projects.

Prerequisites: Microsoft Office-Introduction 10103106, Word-Intermediate 10103114, Excel-Intermediate 10103124, and Access-Intermediate 10103134

COURSE DESCRIPTIONS

141 GLOBAL LANGUAGE & STUDIES

10141160 • 2 credits

Spanish for Service & Health Occupations

Develop Spanish speaking and listening skills through the study of vocabulary and grammar which are commonly used in occupational settings. Previous study of the Spanish language is helpful.

10141170 • 2 credits

Intermediate Spanish for Service & Health Occupations

Provides students with direct instruction in Spanish grammar and vocabulary, demonstrates to students the idiomatic differences between everyday English and everyday Spanish, enables students to practice speaking and reading in Spanish both in the classroom setting and on their own, and helps students raise their confidence level in using Spanish in the workplace and beyond. *Prerequisite: Spanish for Service & Health Occupations 10141160 or consent of instructor*

145 SMALL BUSINESS

10145185 • 3 credits

Organizing Your Small Business

Explores the components of small business ownership by examining a variety of small business startup and operation scenarios. Students assess their own readiness to begin the entrepreneurial adventure.

10145186 • 3 credits

Financial Management for Your Small Business

Emphasizes the importance of good record-keeping systems, reports, and the records necessary for a small business. Financial analysis techniques are explored through hands-on income statements and cash flow projections for the small business. Financial and other technical support resources are identified throughout the course.

10145187 • 3 credits

Marketing Your Small Business

Enables prospective or existing business owners/managers to implement and evaluate a marketing plan for their small business. Students develop a marketing

plan for a selected small business. Components of the plan include market research, customer focus, quality, pricing, and advertising.

10145188 • 3 credits

Entrepreneurial Service Management

Brings together the elements of a successful business with a strategic plan that focuses on servicing customers with a winning attitude, performance, teamwork, and competition.

10145189 • 3 credits

Writing a Business Plan for Your Small Business

Focuses on the business plan as a necessary component to starting and operating a small business. Students prepare a business plan to assist in obtaining financing for a proposed business and/or to guide their strategic business operations.

150 IT NETWORKING AND SECURITY

10150101 • 3 credits

Network Fundamentals

This CISCO Academy based course develops skill in PC hardware and software troubleshooting, including installation of hardware components and problem determination and correction of malfunctioning hardware and software.

Corequisite: Windows Operating Systems 10103102 or Microsoft Office-Introduction 10103106

10150110 • 3 credits

IT Troubleshooting-Beginning

This CISCO Academy based course provides an introduction to networking that includes terminology, basic concepts of planning, designing, implementing, troubleshooting, and administration. Topics included are peer-to-peer versus server-based networks, network topologies, media, interface cards, protocols, and architectures. An in-depth coverage of the OSI model is included.

Prerequisite: Network Fundamentals 10150101

10150111 • 3 credits

IT Troubleshooting-Intermediate

This CISCO Academy based course expands upon basic network concepts

covered in IT Troubleshooting-Beginning. Topics include planning a network upgrade, configuration and management of networking devices, addressing structure, routing, ISP services, and troubleshooting network problems.

Prerequisites: IT Troubleshooting-Beginning 10150110 and Network Fundamentals 10150101

10150120 • 3 credits

Network Administration-Beginning

This course develops skill in the design, installation, administration, and management of computer networks. Topics include network design, installation and configuration of a commonly used Network Operating System, service packs and updated drivers, user accounts, groups, profiles and policies, file system security, printer management, application software installation, backup, and recovery.

Prerequisite: Network Fundamentals 10150101

10150121 • 3 credits

Network Administration-Intermediate

This course expands upon the administration skills needed for successful management of a network operating system in a business environment. Topics include installation and configuration of a Network Operating System, monitoring and performance tuning, monitoring and analyzing network traffic, licensing, network devices, DNS, FTP, web services, and directory services.

Prerequisite: Network Administration-Beginning 10150120

10150130 • 3 credits

Network Operating Systems

This course develops skill in the installation, setup, management, usage, and comparison of various network operating systems and network devices.

Prerequisite: Network Administration-Beginning 10150120

10150141 • 2 credits

Supervised Field Experience

Integrates networking skill developed in classroom study with specific occupational experiences at local employment sites and develops work behavior appropriate to the computer information systems environment.

Prerequisite: Completion of at least

20 credits in occupational-specific IT Network Specialist courses or consent of instructor

10150151 • 2 credits
Implementing PC Security

The course presents personal computer security awareness concepts, principles, and implementation procedures.

The value of securing personal and organizational data along with local, state, and federal legislation pertaining to privacy is discussed. Liability of individuals and institutions in maintaining data confidentiality and integrity is reviewed. The concepts of risk management, security policies, common threats, and threat countermeasures is introduced. Best practices in access control through password policies and other basic security measures is also introduced.

Prerequisite: Windows Operating Systems 10103102, Microsoft Office-Introduction 10103106, or consent of instructor

10150160 • 3 credits
Information Security I

This course introduces students to computer network vulnerabilities and threats. Topics include network security terms and concepts, technology organization, and the legal and ethical issues associated with network security, techniques and tools to harden operating systems against attacks, and basic configuration of network security devices.

Prerequisite: Network Fundamentals 10150101 and IT Troubleshooting-Beginning 10150110 or equivalent work experience and consent of instructor

10150161 • 3 credits
Advanced Networking Projects

This course goes into greater depth with the concepts, techniques, and tools introduced in Information Security-Beginning. New tools and techniques for detecting, analyzing, assessing and defending against network attacks is presented in the context of properly securing a network. The course emphasizes network attack and defense methodologies with lab work focused on learning and using network attack and defense techniques and tools. The role of network device configuration is explored.

Prerequisite: Information Security I 10150160

10150165 • 3 credits

Network Server Scripting

Provides best practices and techniques in Linux and Windows shell and command line scripting.

Corequisite: Network Administration-Beginning 10150120

10150170 • 2 credits

Beginning Network Troubleshooting

Provides general networking theory, practical experience, and opportunities for skills development. The curriculum teaches networking based on application, covering networking concepts within the context of network environments. An in-depth coverage of the OSI model is included.

10150171 • 3 credits

Intermediate Network Troubleshooting

Expands upon basic network concepts covered in Beginning Network Troubleshooting. Topics include managing of network devices, addressing structure, routing, troubleshooting, and operating networks. Students also develop problem-solving, critical-thinking, collaboration, and teamwork skills.

Prerequisite: Beginning Network Troubleshooting 10150170

152 IT APPLICATION DEVELOPMENT & WEB

10152101 • 4 credits

Programming Logic-Beginning

This course introduces students to fundamental computer programming logic and terminology. Students utilize the concepts of structures, pseudocode, and modularization in solving problems. The students then use these tools to program in a current programming language.

Corequisite: Windows Operating Systems 10103102 or Microsoft Office-Introduction 10103106

10152102 • 4 credits

Programming Logic-Intermediate

Building on previous learning of structured programming, this class introduces more complex algorithms and data structures. Programs are written that involve concepts such as arrays, data validation, data

manipulation, and beginning object oriented concepts.

Prerequisite: Programming Logic-Beginning 10152101

10152105 • 3 credits

Database Management

This course uses hands-on exercises and projects to give students experience with using databases for data storage and retrieval. To encourage students to become more sophisticated database users, background information, general relational database design concepts, and a database security overview are included.

Prerequisite: Microsoft Office-Introduction 10103106 or Applied Microsoft Office for Health 10103107

10152150 • 3 credits

Web Programming

Using client-side technologies, students will create dynamic websites. Tools may include elements of the following languages: HTML, CSS, JavaScript, and XML.

Prerequisite: Programming Logic-Intermediate 10152102

10152155 • 3 credits

Web Data Management

Using server-side technologies, the student creates and demonstrates data connectivity to the web. Tools may include elements of the following languages: HTML, JavaScript, SQL, and PHP. Students retrieve data for display to the web browser and capture data for storage from a web-based form.

Prerequisite: 10152150 Web Programming

10152156 • 2 credits

Relational Database Development

Provides training for students in the concepts of relational database design and development. Topics covered include relational normalization, referential integrity, proper use of indexing, staging design patterns, T-SQL coding, and stored procedures.

Prerequisite: Programming Logic-Beginning 10152101

10152160 • 3 credits

Introductory Mobile Application Development

Provides instruction in developing software applications for mobile devices using the Android operating system.

COURSE DESCRIPTIONS

Prerequisite: 10152155 Web Data Management or consent of instructor

10152161 • 4 credits **Intermediate Mobile Application Development**

Provides instruction in developing software applications for mobile devices using the Android operating system.
Prerequisite: Introductory Mobile Application Development 10152160

10152162 • 3 credits **Advanced Mobile Application Development**

Provides instruction in developing software applications for mobile devices using the Android operating system.
Prerequisite: Intermediate Mobile Application Development 10152161

10152163 • 3 credits **Introductory Android Development**

The course provides training in introductory mobile device development for devices running the Android operating system. Topics include platform and SDK setup, Java overview, menu creation, responding to gestures, screen layout, error handling, debugging, image handling, text files, screen state, dialog views, list views, and XML files.
Prerequisite: Programming Logic-Intermediate 10152102

10152164 • 3 credits **Introductory iOS Development**

Course provides training in the following topics: overview of Xcode and Cocoa Touch libraries and proper setup, Objective C training, View creation, List Views, Scroll Views, Image Views, auto layout, Storyboarding, multi-view navigation, core data, and core graphics.
Prerequisite: Programming Logic-Intermediate 10152102

10152165 • 3 credits **Intermediate Android Development**

Course provides training in advanced Java concepts including interfaces, anonymous methods, and recursive techniques; and training in gesture recognition, data persistence, navigation, and action bar customization.
Prerequisite: Introductory Android Development 10152163

10152166 • 3 credits **Intermediate iOS Development**

Course provides advanced coverage of Objective C topics including blocks, design patterns, delegates, and notifications; and training in gesture recognition, core data, navigation and accelerometer basics.
Prerequisite: Introductory iOS Development 10152164

10152170 • 3 credits **Systems Analysis**

A practical course which provides an overview of the Systems Development Life Cycle and then focuses in on the analysis phase of real-world computer and manual systems. Students learn concepts, techniques, and tools to aid in the analysis of existing systems, the identification of user requirements, and the design of database files. Both written and oral communications are emphasized. Most of the work is done in groups.
Prerequisite: Programming Logic-Beginning 10152101

10152171 • 3 credits **Systems Design**

Provides actual hands-on experience with designing a software project. Students work in teams to develop software design documents, and software specifications. Concepts stressed are prototyping, documentation, communication, teamwork, and project management.
Prerequisites: Systems Analysis 10152170; Access-Beginning 10103133 or Microsoft Office-Introduction 10103106

10152172 • 3 credits **Systems Implementation**

Discusses the importance of and need for Database Management Systems (DBMS). Students are introduced to the three major models: hierarchical, network, and relational. Students design and implement relational databases and learn SQL.
Prerequisite: Systems Design 10152171, RPG-Beginning 10152115, or COBOL-Beginning 10152110

154 IT COMPUTER SUPPORT

10154101 • 2 credits **IT Customer Support**

Develops skill in serving the needs of computer information system customers and documenting systems and procedures.
Prerequisites: Systems Analysis 10152170 and Written Communication 10801195, English Composition 10801136, or consent of instructor

196 SUPERVISION & LEADERSHIP DEVELOPMENT

10196134 • 3 credits **Legal Issues for Supervisors**

Apply skills and tools necessary for a supervisor to effectively function in today's legal work environment. Learners apply legal practices in union and nonunion environments, analyze the impact of U.S. employment laws on the global economy, use the appeal process to settle disputes, manage legal charges, document the hiring and firing process, manage harassment and privacy issues, and summarize the legal issues facing contemporary supervisors.

10196164 • 3 credits **Personal Skills for Supervisor**

Apply skills and tools necessary to enhance personal professional success through the use of time and stress management and assertive behavior. Learners use time management techniques, conduct personal planning, engage in life-long learning, value the rights of others, communicate effectively, display assertive behavior, and manage stress.

10196168 • 3 credits **Organizational Development**

Develop skill to assist organizations to achieve greater effectiveness, including increased financial performance and improved quality of work life. Skills developed include collecting, analyzing, and diagnosing organization development data; developing plans to enhance human processes, organization structure, and employee involvement, work design, human resources, and organization environment; and leading and managing the implementation of these plans.

10196169 • 3 credits**Diversity & Change Management**

The learner applies the skills and tools necessary to implement and maintain a diverse work environment. Learners assess the current extent of diversity in the workplace; analyze the effect of perceptions, attitudes, biases, and organization culture on diversity; remove barriers; apply change management strategy, process, and reactions; measure progress; and celebrate success.

10196180 • 3 credits**Applied Data Analysis**

This course provides tools and skills to collect and analyze data allowing them to solve problems and improve processes. An emphasis placed on the use of statistical techniques to create and implement a data collection plan. Statistical techniques emphasized are process mapping, failure mode and effects analysis, probability, confidence intervals, measurement systems analysis, and hypothesis testing.
Prerequisite: Introductory Statistics 10804189

10196188 • 3 credits**Project Management**

Apply skills and tools necessary to design, implement, and evaluate formal projects. Each learner will write a project proposal, work with project teams, sequence project tasks, develop project budgets, identify project resources, implement the project, chart project progress, deal with variations, evaluate the project, and use various technology in these processes.

10196189 • 3 credits**Team Building & Problem Solving**

Apply skills and tools necessary to facilitate problem solving in a team environment. Each learner assumes the roles and responsibilities of team leadership in the stages of team development, use a systematic problem-solving process, and employ consensus building and conflict management strategies.

10196190 • 3 credits**Leadership Development**

Apply skills and tools necessary to fulfill his/her role as a modern leader. Each learner will evaluate personal leadership

effectiveness, use individual and group motivation strategies, implement mission and goals, demonstrate ethical behavior, adapt personal leadership style to worker readiness, use power, facilitate employee development, coach, manage change, and resolve conflict.

10196191 • 3 credits**Supervision**

Apply skills and tools necessary to perform the functions of a contemporary frontline leader. Students engage in operational planning, analyze organizational structures, review the staffing process, employ techniques to enhance employee personal and group effectiveness, and develop control techniques to measure effectiveness in the above areas.

10196192 • 3 credits**Managing for Quality**

Apply skills and tools necessary to implement and maintain a continuous improvement environment. Each learner will demonstrate the application of a personal philosophy of quality, identify stakeholder relationships, identify ways to meet/exceed customer expectations, apply a systems-focused approach, use quality models and tools, manage a quality improvement project, and measure effectiveness of continuous improvement activities.

10196193 • 3 credits**Human Resource Management**

Apply skills and tools necessary to perform human resource functions in an organization. Each learner will demonstrate skill in following EEOC laws; writing job descriptions; recruiting, selecting, and orienting employees; developing policies and procedures; developing and conducting training; designing performance appraisal plans; developing employee development plans; and selecting compensation and benefit strategies.

307 EARLY CHILDHOOD EDUCATION

10307115 • 3 credits**Infant Toddler Capstone**

Prepares students to care for the needs of children from birth to age two. Includes the study of the growth and development sequence, nutrition, sanitation, safety, and the planning of developmentally appropriate activities. Practical application of safe, nurturing, and appropriate care is included.

10307117 • 3 credits**ECE: Credit for Prior Learning**

This three-credit course examines early childhood professional experience for the purpose of receiving credit for prior learning. Course competencies include: access needed support services on campus and online, analyze professionalism in the early childhood field, identify core abilities, identify what a competency is within a course, examine the courses and outcomes of the WTCS Early Childhood Education program, analyze performance assessment, compare professional experience with early childhood competencies, compile materials for performance assessment of course(s), and determine plan of action for program completion.

Prerequisite: Interested individuals should possess a minimum of 750 hours of occupational experience in Early Childhood Education prior to enrolling in this course.

10307144 • 3 credits**Behavioral & Emotional Challenges**

This three-credit course prepares the student to build rapport with children and their families; create supportive learning environments; demonstrate positive social-emotional teaching strategies; define specific discipline and guidance strategies; assess challenging behaviors; describe specific diagnoses typically related to challenging behaviors; develop individualized, positive guidance plans; and communicate the need for positive, consistent, team approaches to including children with challenging behaviors in typical community settings.

Prerequisite: ECE: Children with Differing Abilities 10307187

COURSE DESCRIPTIONS

10307146 • 3 credits

Special Health Care Needs

This three-credit course prepares the student to: 1) Recognize the family as the experts about their own child/family member; 2) Describe the roles of other health care professionals involved with various conditions; 3) Describe the role of program staff involved with the conditions covered in this course; 4) Identify community resources and support people available to assist individuals with various conditions; 5) Discuss educational implications and adaptive strategies for successful inclusion of individuals who have various healthcare conditions; 6) Explore health promotion in children and adults with special health care needs; 7) Examine the care of individuals with altered body systems function, including sensory, gastrointestinal, bowel and bladder elimination, respiratory, cardiovascular/blood, musculoskeletal, neurological, skin/immune, and endocrine-related; and 8) Discuss emergency management of various health conditions.

10307148 • 3 credits

Foundations of Early Childhood Education

This three-credit course introduces you to the early childhood profession. Course competencies include: integrate strategies that support diversity and anti-bias perspectives, investigate the history of early childhood education, examine regulatory requirements for early childhood education programs in Wisconsin, summarize types of early childhood education settings, identify the components of a quality early childhood education program, summarize responsibilities of early childhood education professionals, and explore early childhood curriculum models.

10307150 • 1 credit

Wisconsin Model Early Learning Standards

Enhances the student's ability to analyze the guiding principles and the five developmental domains related to the Wisconsin Early Learning Standards; apply the WMELS to various developmentally appropriate curriculum models, activities, and assessments; integrate the Wisconsin Early Learning Standards into the program's teaching cycle (ongoing assessment, planning and curriculum goals, and

implementation); evaluate learning and assessment activities using the early learning standards for each individual child; and relate the WMELS to other standards and indicators.

10307151 • 3 credits

Infant & Toddler Development

In this three-credit course you study infant and toddler development as it applies to an early childhood education setting. Course competencies include: integrate strategies that support diversity and anti-bias perspectives, analyze development of infants and toddlers (conception to three years), correlate prenatal and postnatal conditions with development, summarize child development theories, analyze the role of heredity and the environment, examine culturally and developmentally appropriate environments for infants and toddlers, examine the role of brain development in early learning (conception through age three), and examine caregiving routines as curriculum.

10307152 • 3 credits

Capstone: Family & Team-Centered Practices

This three-credit, field-based course requires the student to volunteer in an ECE program with a child who has special needs and to spend time with that child's family at home and in the community. Students have the opportunity to participate with a child and family in daily routines and community settings (e.g., church, childcare, grocery store, library, pool, and medical setting). Students also complete the required Credential Portfolio and culminate in the Wisconsin Registry Commission process.
Prerequisites: ECE: Children with Differing Abilities 10307187, Behavior & Emotional Challenges 10307145, and Special Health Care Needs 10307146

10307160 • 3 credits

Preschool Capstone

The capstone is the last course all students take prior to completing the Preschool Credential. The intent of this capstone course is to cover and revisit some important themes from the prior five courses. The student synthesizes the information and demonstrate mastery of the competencies through the completion of a portfolio.
Prerequisites: Foundations of Early

Childhood Education 10307148; Child Development 10307179; Health, Safety, & Nutrition 10307167; and Guiding Children's Behavior 10307188; Art, Music, & Language Arts 10307178

10307166 • 3 credits

Curriculum Planning

This three-credit course examines the components of curriculum planning in early childhood education. Course competencies include: integrate strategies that support diversity and anti-bias perspectives, examine the critical role of play as it relates to curriculum planning; establish a developmentally appropriate environment, integrate Developmentally Appropriate Practice (DAP) into curriculum, develop activity plans that promote child development and learning, develop curriculum plans that promote child development and learning across all content areas, and analyze early childhood curriculum models.
Prerequisite: Art, Music, & Language Arts 10307178 or Math, Science, & Social Studies 10307194

10307167 • 3 credits

Health, Safety, & Nutrition

This three-credit course examines the topics of health, safety, and nutrition within the context of the early childhood educational setting. Course competencies include: integrate strategies that support diversity and anti-bias perspectives; follow governmental regulations and professional standards as they apply to health, safety, and nutrition; provide a safe early childhood program; provide a healthy early childhood program; provide a nutritionally sound early childhood program; adhere to child abuse and neglect mandates; apply Sudden Infant Death Syndrome (SIDS) risk reduction strategies; apply strategies to prevent Shaken Baby Syndrome (SBS); and incorporate health, safety, and nutrition concepts into the children's curriculum.

10307171 • 3 credits

Infant and Toddler Group Care

This course includes caring for infants and toddlers in group settings, both center-based and family child care. Covers program quality, philosophy, structure, environments, health and safety, developmentally appropriate practice, and inclusion/diversity issues.

10307174 • 3 credits**Practicum 1**

In this three-credit practicum course you will learn about and apply the course competencies in an actual child care setting. The course competencies include: document children's behavior; explore the standards for quality early childhood education; explore strategies that support diversity and anti-bias perspectives; implement activities developed by the co-op teacher/instructor/student; demonstrate professional behaviors; practice caregiving routines as curriculum; practice positive interpersonal skills with children and adults; analyze how Wisconsin Early Learning Standards provide a framework of guiding principles, developmental expectations, and program and performance standards to delineate the five developmental domains that embody delivery of quality education and care to young children; incorporate Wisconsin Early Learning Standards with the principles of developmentally appropriate practice, intentionality, and the teaching cycle to examine child development; evaluate program integration of Wisconsin Early Learning Standards into the teaching cycle of ongoing assessment, planning and curriculum goals, and implementation; identify specific goals and learning and assessment activities to promote the development of a focus child utilizing the Wisconsin Early Learning Standards; and develop a plan for child learning utilizing the performance standards, developmental continuum, and developmental domains from the WMELS that is based on experiential learning.

Prerequisite: Admission to Early Childhood Education program 103071. Students must meet the state administrative code requirements to be in an early childhood education setting (including both prior coursework and Caregiver Background Check). The CBC will be processed by the Early Childhood Education program coordinator.

10307178 • 3 credits**Art, Music, & Language Arts**

This three-credit course focuses on beginning-level curriculum development in the specific content areas of art, music, and language arts. Course competencies include: integrate strategies that support diversity and anti-bias perspectives; examine the critical role of play as it relates to art, music, and language arts;

establish a developmentally appropriate environment for art, music, and language arts; develop activity plans that promote child development and learning; analyze caregiving routines as curriculum; create developmentally appropriate language, literature, and literacy activities; create developmentally appropriate art activities; and create developmentally appropriate music and movement activities.

10307179 • 3 credits**Child Development**

This three-credit course examines child development within the context of the early childhood education setting. Course competencies include: analyze social, cultural, and economic influences on child development; summarize child development theories; analyze development of children age three through age eight; summarize the methods and designs of child development research; analyze the role of heredity and the environment; and examine the role of brain development in early learning (ages 3-8).

10307180 • 3 credits**Administration/Supervision in Early Childhood Programs: Roles & Responsibilities**

An overview of roles and responsibilities of directors, coordinators, supervisors, and other administrators in early childhood programs.

10307182 • 3 credits**Operations Management in Early Childhood Programs**

Includes discussion and practical applications related to scheduling, staffing, facilities management, equipment acquisition and maintenance, services delivery, record keeping, and communication.

10307183 • 3 credits**Financial Planning and Management in Early Childhood Programs**

Review of principles and practices in budget planning and preparation and fiscal management, including hands-on experience with program applications.

10307184 • 3 credits**Early Childhood Programs and the External Environment**

Review of external factors which affect the operation of early care and education programs including

determination of community child care needs, marketing, laws and regulations, working with government and community agencies, and political and societal issues and trends.

10307185 • 3 credits**Best Practices for Children and Families in Early Childhood Programs**

Establishing and maintaining quality programs based on professional standards and the best available information on child growth and development and family friendly environment/services. Includes a review of literature and research studies, licensing laws and regulations, criteria for staff credentials (CDA) and the accreditation of programs by the National Academy of Early Childhood Programs, and funding requirements and performance standards, such as those for Head Start.

10307186 • 3 credits**Administrative Seminar**

This is the culminating experience in the credential course sequence. Major individual projects are required with a focus on the integration of program aspects in developing strategic planning for change.

Prerequisites: Administration/Supervision in Early Childhood Programs: Roles and Responsibilities 10307180, Operations Management in Early Childhood Programs 10307182, Financial Planning and Management in Early Childhood Programs 10307183, Early Childhood Programs and the External Environment 10307184, and Best Practices for Children and Families in Early Childhood Programs 10307185

10307187 • 3 credits**Children with Differing Abilities**

This three-credit course focuses on the child with differing abilities in an early childhood education setting. Course competencies include: 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; work collaboratively through the consultation process to embed intervention in natural-based settings; differentiate between typical and exceptional development; analyze the differing abilities of children with physical,

COURSE DESCRIPTIONS

cognitive, health/medical, communication, and/or behavioral/emotional disorders; work collaboratively with community and professional resources; utilize an individual educational plan (IEP/IFSP) for children with developmental differences; adapt curriculum to meet the needs of children with developmental differences; and cultivate partnerships with families who have children with developmental differences.

10307188 • 3 credits **Guiding Children's Behavior**

This three-credit course examines positive strategies to guide children's behavior in the early childhood education setting. Course competencies include: integrate strategies that support diversity and anti-bias perspectives, summarize early childhood guidance principles, analyze factors that affect the behavior of children, practice positive guidance strategies, develop guidance strategies to meet individual needs, and create a guidance philosophy. This course meets the requirements for the Pyramid Model training.

10307191 • 3 credits **Infant-Toddler Credential Course 1: Infants, Toddlers, and Caregivers**

Introduction to the development, care, and education of children ages 0-3. Includes principles of care giving, developmentally appropriate practice, diversity issues, curriculum, guidance, observation, and assessment. Both typical and atypical development are examined.

10307192 • 3 credits **Practicum 2**

In this three-credit practicum course you will learn about and apply the course competencies in an actual child care setting. The course competencies include: identify children's growth and development, maintain the standards for quality early childhood education, practice strategies that support diversity and anti-bias perspectives, implement student teacher-developed activity plans, identify the elements of a developmentally appropriate environment, implement positive guidance strategies, demonstrate professional behaviors, utilize caregiving routines as curriculum, utilize positive interpersonal skills with children, and utilize positive interpersonal skills with adults.
Prerequisites: Admission to Early Childhood Education program 103071 and Practicum 1 10307174

10307193 • 3 credits **Infant-Toddler Credential Course 3: Programs, Families, and Society**

Course focuses on partnerships with parents and collaboration with the community. Covers parent education, involvement, and inclusion, as well as issues such as public policy, advocacy, community resources, and professionalism.

10307194 • 3 credits **Math, Science, & Social Studies**

This three-credit course focuses on beginning-level curriculum development in the specific content areas of math, science, and social studies. Course competencies include: integrate strategies that support diversity and anti-bias perspectives; examine the critical role of play as it relates to math, science, and social studies; establish a developmentally appropriate environment for math, science, and social studies; develop activity plans that promote child development and learning; create developmentally appropriate science activities; and create developmentally appropriate math activities; create developmentally appropriate social studies activities.

Prerequisite: Art, Music, & Language Arts 10307178 or Child Development 10307179

10307195 • 3 credits **Family & Community Relationships**

In this three-credit course you will examine the role of relationships with family and community in early childhood education. Course competencies include: implement strategies that support diversity and anti-bias perspectives when working with families and community; analyze contemporary family patterns, trends, and relationships; utilize effective communication strategies; establish ongoing relationships with families; advocate for children and families; and work collaboratively with community resources.

10307196 • 3 credits **Infant & Toddler Credential Course 2: Group Care**

Caring for infants and toddlers in group settings, both center-based and family child care. Covers program quality, philosophy, structure, environments,

health and safety, developmentally appropriate practice, and inclusion/diversity issues.

10307197 • 3 credits **Practicum 3**

In this three-credit practicum course you will learn about and apply the course competencies in an actual child care setting. Course competencies include: assess children's growth and development, implement the standards for quality early childhood education, integrate strategies that support diversity and anti-bias perspectives, build meaningful curriculum, provide a developmentally appropriate environment, facilitate positive guidance strategies, evaluate one's own professional behaviors and practices, lead caregiving routines as curriculum, utilize positive interpersonal skills with children, and utilize positive interpersonal skills with adults.

Prerequisite: Admission to Early Childhood Education Program 103071 and Practicum 2 10307192. Students must meet the state administrative code requirements to be in an Early Childhood Education setting (including both prior coursework and Caregiver Background Check). The CBC will be processed by the Early Childhood Education program coordinator prior to the student being eligible to participate in the Practicum 3 field experience. See additional information outlined in the MSTC Catalog regarding Practicum requirements.

10307198 • 3 credits **Administering an Early Childhood Education Program**

This three-credit course focuses on the administration of an early childhood education program. Course competencies include: integrate strategies that support diversity and anti-bias perspectives, analyze the components of an ECE facility, design an ECE program, analyze the aspects of personnel supervision, outline financial components of an ECE program, apply laws and regulations related to an ECE facility, and advocate for the early childhood profession.

Prerequisite: Completion of 12 Early Childhood (307) credits

10307199 • 3 credits **Practicum 4**

In this three-credit practicum course

you will learn about and apply the course competencies in an actual child care setting. Course competencies include: analyze children's growth and development based on assessment; integrate strategies that support diversity and anti-bias perspectives; promote professional behaviors and practices; implement meaningful curriculum; create respectful, reciprocal relationships; evaluate early childhood education programs for quality; and explore professional options in early childhood education.

Prerequisite: Practicum 3 10307197

404 AUTOMOBILE-MECHANICAL

32404307 • 5 credits

Suspension & Steering Systems

Highlighted in this course will be an analysis of construction and working principles of chassis components. Included will be frames, suspension systems, steering gears and linkages, wheels and tires, and wheel alignment. Special attention given to products used in servicing chassis components.

Prerequisite: Admission to Automotive Technician program 324042

32404308 • 5 credits

Braking Systems-Automotive

Fundamentals of vehicle braking systems including drum and disc on hydraulic and air systems are studied. Power and anti-skid systems are included with emphasis on troubleshooting and component replacement and reconditioning.

Prerequisite: Admission to Automotive Technician program 324042

32404311 • 5 credits

Electrical Systems-Auto

This is the study of construction, function, and principles of operation of starting motors, charging systems, and controls. Basic electronics including capacitance, inductance, series and parallel circuits, magnetism and Ohm's Law, wiring schematics, soldering techniques, and use of diagnostic equipment are covered. Vehicle control and accessory systems are studied.

Corequisite: Intro to Electronics 10605108

32404312 • 5 credits

Advanced Electrical Systems-Auto

Theory, operational fundamentals, diagnosis, and repair of vehicle electronic/electrical systems, including computer self-diagnosis, scanners, analyzers, sensors, actuators, and computerized ignitions, are studied in this course. Also covered are diagnostic and repair procedures on major electrical-electronic emission control systems.

Corequisite: Electrical Systems-Auto 32404311

32404320 • 1 credit

Hybrid Systems-Auto

This course includes a general overview of hybrid vehicle systems, including motor, inverter, and CVT operation. Also included is an overview of hybrid safety requirements and demonstration of proper high voltage lockout procedures.

Corequisites: Automatic Transmissions 32404323, Advanced Electricity 32404312, and Fuel Control Systems-Auto 32404326

32404322 • 3 credits

Heating/Air Conditioning

This course provides an introduction to vehicle air conditioning systems. System components, operating characteristics, component testing, diagnosis, and repair are covered in detail for popular system types. Coverage included servicing of engine cooling systems as well as diagnosis and servicing of vehicle heating systems.

Prerequisite: Admission to Automotive Technician 324042 or Diesel & Heavy Equipment Technician 324121 programs

32404323 • 5 credits

Automatic Transmissions

This course provides coverage of vehicle automatic transmission diagnosis and repair. Course emphasis includes gear systems, operating principles, component diagnosis, maintenance and adjustment, and servicing of transaxle system components.

Prerequisites: Electrical Systems-Auto 32404311 and Applied Fluid Power 32404330

32404324 • 5 credits

Engine Repair

This course provides a general overview of engine types and operating

characteristics. Course emphasis includes the diagnosis and repair of cylinder heads, valve train components, and engine blocks and related components. Engine support systems such as the lubrication systems, cooling system, ignition system, fuel and exhaust systems are covered.

Prerequisite: Admission to Automotive Technician program 324042

32404325 • 5 credits

Manual Transmissions

This course provides coverage of manual transmission problem diagnosis and repair. Study includes clutch, drive shaft, and universal joint diagnosis and servicing. Additional topics include rear axle servicing as well as four-wheel drive diagnosis and repair.

Corequisite: Automatic Transmissions 32404323

32404326 • 5 credits

Fuel Control System-Auto

This course provides an introduction to vehicle ignition systems, fuel systems, air induction systems, emission control systems, and engine electrical systems. Course emphasis focuses on problem diagnosis, component testing, and repairs for domestic as well as import vehicles. A review of engine operation and related servicing are also provided.

Prerequisite: Admission to Automotive Technician program 324042

32404330 • 2 credits

Applied Fluid Power

Covers basic principles and application of pumps, compressors, motors, valves, seals, packing, and conductors. Students learn the advantage of hydraulic and pneumatic systems, as well as the physical properties of liquids and air. The intent is to identify various parts of a circuit and to illustrate standard liquid power components through laboratory experiments.

Prerequisite: Admission to Automotive Technician 324042, Diesel & Heavy Equipment Technician 324121, or Machine Tool Technician 324201 programs

32404375 • 2 credits

Service Practices in Transportation Industry

This course introduces the student to common tools, terminology, and service practices in the transportation

COURSE DESCRIPTIONS

service field. Safety, environmental concerns, and basic customer relations are covered. Service shop management practices and the use of automated work order, parts ordering, and time management concepts are included.

Prerequisite: Admission to Automotive Technician 324042 or Diesel & Heavy Equipment Technician 324121 programs

32404376 • 1 credit Advanced Drivability-Auto

This course provides students with hands-on practical experience in powertrain diagnosis. This course builds on basic skills and system theory gained in previous courses.

Prerequisite: Automatic Transmissions 32404323; Corequisites: Advanced Electricity 32404312 and Fuel Control Systems-Auto 32404326

412 COMBUSTION ENGINES

32412303 • 3 credits Heating / AC-Diesel

This course introduces students to the theory and operation of the heating and air conditioning systems found in transportation, farm, and heavy equipment industries. Students learn how to inspect, diagnose, and repair heat and air conditioning systems found in their field. Students have the opportunity to acquire their State of Wisconsin HVAC certification through a written test and hands on evaluation. This class offers experience in installation, operation, and repair of auxiliary power units found on today's modern trucks. Not only will students learn about heating and air conditioning for operator comfort, they also have the opportunity to learn how to inspect, service, and repair refrigerated units found on today's semitrailers and shipping containers.

Prerequisite: Admission to Diesel & Heavy Equipment Technician program 32412

32412305 • 1 credit Preventive Maintenance-Diesel

This course provides an introduction to vehicle preventive maintenance and inspection. The focus will be on maintaining and inspecting the engine system, cab and hood, electrical and electronics, and frame and chassis components. Students learn how to

properly service vehicle systems and perform a visual inspection of all vehicle components. Students also learn how to properly document all maintenance and inspection findings.

32412308 • 5 credits Braking Systems-Diesel

Fundamentals of vehicle braking systems, including drum and disc on hydraulic and air systems, are studied. Power and anti-skid systems are included with emphasis on troubleshooting and component replacement and reconditioning.

Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121

32412309 • 5 credits Suspension & Steering Systems

Highlighted in this course is an analysis of construction and working principles of chassis components. Included are frames, suspension systems, steering gears and linkages, wheels and tires, and wheel alignment. Special attention is given to products used in servicing chassis components.

Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121

32412310 • 5 credits Engine Performance-Diesel

This course provides an introduction to ignition systems, fuel systems, air induction systems, exhaust systems, emission control systems, and engine electrical systems. Course emphasis includes the proper diagnosis and repair of system components as related to the truck, construction, and heavy equipment industry. A review of engine operation and related servicing are also provided.

Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121

32412311 • 5 credits Advanced Electricity-Diesel

This course provides advanced training in the theory, operating principles, diagnosis, and repair of vehicle electronic/electrical systems. Emphasis includes vehicle ignition, starting, charging, and lighting system problem diagnosis and repair as related to the truck, construction, and heavy

equipment industries.

Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121

32412312 • 5 credits Drive Trains

The course provides training in the proper diagnosis and repair of clutches, manual transmissions, drive shafts and universal joints, and drive axles. Coverage of track-type vehicle service is also included. Diagnostic and service procedures will apply to the truck, construction, and heavy equipment industries.

Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121

32412313 • 5 credits Electrical Systems

This is the study of construction, function, and principles of operation of starting motors, charging systems, and controls. Basic electronics, including capacitance, inductance, series and parallel circuits, magnetism and Ohm's Law, wiring schematics, soldering techniques, and use of diagnostic equipment, are covered. Vehicle control and accessory systems are studied.

Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121

32412320 • 1 credit Hybrid Systems-Diesel

This course covers basic vehicle propulsion systems within hybrid electric vehicle (HEV) context with a focus on application, integration, testing, and development of battery systems. Course topics include the following: vehicle and powertrain systems requirements, regulations, design, energy storage, model-based design, and control. HEV high voltage sub-systems are reviewed including electrical drive systems, electric machines, batteries, and their safety aspects.

32412324 • 5 credits Engine Repair

This course provides a general overview of engine types and operating characteristics. Course emphasis includes the diagnosis and repair of cylinder heads, valve train components, and engine blocks and related components. Engine support systems such as the lubrication systems, cooling

system, ignition system, fuel, and exhaust systems are also covered.
Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121

32412327 • 5 credits
Fuel Systems & Emissions

This course provides detailed coverage of the principles of operation, as well as the components and diagnostic procedures for modern diesel engines. Emission control systems is included. Course emphasis includes fuel injection and pump timing procedures.
Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121

420 MACHINE SHOP

32420301 • 3 credits
Intro to Machine Tool

Students learn the concepts, old and new, as well as terms and basic information relevant and common to all facets of machine tool technology. Emphasis is placed on safety and safe work habits while expanding the learners' knowledge of precision and non-precision measuring tools, limits, tolerance, and hand tools used in the machine shop. The learner is introduced to more common manual machine tools, lathe, drill press, and band saw, while completing projects and exercises.

32420302 • 5 credits
Machine Shop Manual Operations

Learners explore new concepts, terms, and operations of machine tools while reviewing and further developing skills from previous covered operations. Safety must be practiced continually. Safety and the development of safe work habits are emphasized. Learners' working skills on individual machine tools through exercises and projects are expanded. Classroom instruction focuses on non-precision and precision layouts, drill presses, drill press accessories, band saws, and cutoff saws.
Corequisite: Intro to Machine Tool 32420301

32420303 • 5 credits
Manual Lathe & Cutting Fluids

The learners' understanding of new concepts, terms, and operations of machine tools is developed while

reviewing and further developing skills from previous covered operations. Safety must be practiced continually. Safety and the development of safe work habits are emphasized. The learners' working skills on the individual machine tools through exercises and projects are expanded. Classroom instruction places emphasis on the parts and accessories of the engine lathe, the use and benefit of cutting fluids, and the different operations performed on the lathe. The operations covered in this nine-week period include: setting up and turning work between centers, facing, knurling, cutting tapers; setting up and using 3 jaw and 4 jaw chucks; and using a follow rest and a steady rest.
Prerequisite: Intro to Machine Tool 32420301

32420304 • 5 credits
Threads & Mills

Learners are presented with new concepts, terms, and operations of machine tools while reviewing and further developing skills from previous covered operations. Safety must be practiced continually. Safety and the development of safe work habits are emphasized. The learner's working skills on the individual machine tools through exercises and projects are expanded. Classroom instruction places emphasis on threads, thread terminology, thread measuring, thread cutting, and the vertical milling machine.
Prerequisite: Intro to Machine Tool 32420301

32420305 • 4 credits
Advanced Lathes

Students receive further insight in lathe concepts. Safety is reviewed and advanced cutting tool materials such as carbides, ceramics, cubic boron nitride (CBN), and polycrystalline diamonds (PCD) are covered. Tooling, speeds and feeds, cutting tool selection, and advanced machine practices such as multi-operations and process planning will be covered.
Prerequisite: Threads & Mills 32420304

32420306 • 4 credits
Advanced Mills

Instruction gives the student greater insight in milling machine concepts. Major emphasis is placed on milling machine terminology, work holding methods, location principles, tooling, and cutting

tool selection, along with operations and process planning. Rotary tables and indexing methods such as direct, simple, and angular are also taught.
Prerequisite: Threads & Mills 32420304

32420307 • 3 credits
Non-Traditional Machine Operations

Students explore a variety nontraditional machining operations. Students gain knowledge of the theory and operation of electrical discharge machining (EDM) and coordinate measuring machine. The focus of this course is on the cutting edge processes that are becoming the mainstream of modern machining.
Prerequisites: Advanced Lathes 32420305 and Advanced Mills 32420306

32420308 • 3 credits
Basic Lathe Operation

This course is devoted to helping learners understand concepts, terms, and operations of the basic manual lathe. Safety must be practiced continuously. This course emphasizes safety and the development of safe work habits. This course expands and enhances the learner's working skills on the individual machine tools through exercises and projects. The classroom instruction emphasis is placed the manual lathe.
Prerequisite: Intro to Machine Tool 32420301

32420309 • 2 credits
Basic Mill Operation

This course is devoted to helping learners understand concepts, terms, and operations of the vertical milling machine. Safety must be practiced continuously. This course emphasizes safety and the development of safe work habits. This course expands and enhances the learner's working skills on the individual machine tools through exercises and projects. The classroom instruction emphasis is on the vertical-milling machine.
Prerequisite: Intro to Machine Tool 32420301

32420312 • 2 credits
Metals Science

Students are introduced to the field of metallurgy. Covers sources of common metals, including both ferrous and non-ferrous methods of ore extraction and refining and classification of

COURSE DESCRIPTIONS

these metals and the alloy systems. The heat treatment of various metals and properties of metals are studied, including lab work on shear, compression, tensile strength, and corrosion.

32420320 • 2 credits **Math for Manufacturing**

This course includes the study of machine tool problems involving calculations with fractions, decimals, and percentage. Includes work with the metric system, measurement conversion, geometry, trigonometry of right triangles, and use of a scientific calculator. Formulas with application to the trades are also studied.

Prerequisite: Admission into Machine Tool Technician 324201 or Welding 314421 programs, or Gas Metal Arc Welding (GMAW) certificate 144422, or consent of instructor

32420321 • 2 credits **Machine Tool Print Reading**

Workers in the machine trades use engineering drawings as the basic communication tool between engineering and production. In this course the symbolic language of the engineering drawings is detailed. Topics covered include line types, pictorial views, orthographic projections, visualization techniques, dimensioning, tolerancing, assembly drawings, and various techniques drafts people use to create detailed drawings.

Prerequisite: Intro to Machine Tool 32420301

32420322 • 2 credits **Geometric Dimensioning & Tolerancing**

Provides fundamentals of Geometric Dimensions and Tolerancing per the ASME Y14.5 standard. The development of the technical knowledge and skills required for application and interpretation of GD&T is the focus of the course.

Prerequisite: Admission to Machine Tool program 324201 or consent of instructor

32420346 • 3 credits **Related Machine Shop**

Students are introduced to basic machine shop operations. Covers hand tools, semi-precision and precision measuring tools, layout work,

sawing, grinding, drill press, and lathe operations. Laboratory assignments are completed to familiarize students with various types of equipment for practical application in their respective trades.

32420360 • 2 credits **Intro to CNC Machining**

This course introduces learners to the world of CNC (Computer Numerical Controlled) machining. Students explore the general terminology associated with automated machine tools, accompanied by an introduction to programming and operations of CNC mills and lathes. This course gives learners a hands-on understanding of the importance of the use of CNC machinery in modern manufacturing.

32420362 • 2 credits **CNC Lathes/Manual Programming**

NC/CNC terminology, including introduction to computers, and components of NC/CNC lathes are covered. All programming is manual word address (G + M Code) basics. Basic CNC lathe operation is included.
Corequisite: Advanced Lathes 32420305

32420364 • 2 credits **CNC Mills/Manual Programming**

NC/CNC terminology, including introduction to computers, and components of NC/CNC mills are covered. All programming is manual word address (G + M code) basics. Basic CNC mill operation is included.
Prerequisite: Mechanical Drafting Concepts 10623104; Corequisite: Advanced Lathes 32420305

32420366 • 3 credits **CNC Controls**

This course provides students with the skills needed to navigate common CNC machine control panels. Students learn common methods to set tool offsets, work offsets, and common part set up practices. Focus of this course is on accuracy, repeatability, and efficiency in the operations of CNC machine tools.
Prerequisites: CNC Lathes/Manual Programming 32420362 and CNC Mills/Manual Programming 32420364

32420368 • 3 credits **CAD/CAM**

This course introduces students to Computer-Aided Drafting/Design

(CAD) and Computer-Aided Machining/Manufacturing (CAM). This course consists of demonstrations and hands-on use of CAD/CAM software and hardware. Major emphasis is placed on geometry creation and editing functions, process planning, proper cutter selection, feed and speed selection, and tool path generation, along with post processing to specific CNC machines. Some basic machine set-up and operation are included to verify program operation. Students should have knowledge of drafting/design, machining processes and procedures, and computer operating systems (MS Windows).

Prerequisites: CNC Lathes/Manual Programming 32420362 and CNC Mills/Manual Programming 32420364

32420370 • 3 credits **Abrasives & Precision Grinding**

Students learn abrasive machining technology including super abrasives. Precision surface grinding, cylindrical grinding and tool, and cutter grinding are covered. Advanced grinding operations such as radius dressing and special shapes and techniques are also taught.

Prerequisites: Advanced Mills 32420306 and Mechanical Drafting Concepts 10606142

442 RELATED WELDING

10442100 • 1 credit **Intro to Welding**

Students gain knowledge of general welding shop procedures and safety, arc welding principles and equipment setup, and metal fabrication equipment use. Students work with a lab instructor to begin developing skills with the GMAW and GTAW welding processes by completing simple welding and fabricating tasks in preparation for further exploration in welding and fabricating.

Prerequisite: Admission to Welding program 314421, or Stainless Steel Welding Basics GTAW 144421 or Gas Metal Arc Welding (GMAW) 144422 certificates

10442101 • 2 credits**Basic GTAW (TIG)**

This course is an introduction to the gas tungsten arc welding (GTAW) process commonly known as TIG. The necessary safety and care of equipment and supplies are learned. The student develops skills with the common production welding joints and materials. *Prerequisites: Admission to Welding program 314421 or Stainless Steel Welding Basics GTAW certificate 144421 and Intro to Welding 10442100*

10442102 • 2 credits**Intermediate GTAW (TIG)**

In this course, students weld in the horizontal and vertical positions on stainless steel and aluminum. Pulsed current is applied to stainless steel weldments. Complete penetration groove welds in stainless steel is practiced and evaluated. *Corequisite: Basic GTAW (TIG) 10442101*

10442103 • 2 credits**Advanced GTAW (TIG)**

This course involves complete penetration stainless steel pipe welds in the 5G and 6G positions. *Corequisite: Intermediate GTAW (TIG) 10442102*

10442110 • 3 credits**Gas Metal Arc Welding (GMAW)**

In this course, you develop skills of welding on steel sheet metals and plates using the GMAW process. Emphasis is placed on axial spray, pulse spray, and short circuit mode of transfer. Upon completion of this course, the student is able to weld in several positions, read basic weld symbols, and have an understanding of written welding procedures. *Corequisite: Intro to Welding 10442100*

10442111 • 3 credits**Intermediate GMAW/FCAW**

In this course, students build their skills with the GMAW process and perform welds on stainless steel and aluminum sheet metal and plate. The student is able to differentiate, select proper electrodes and shielding gases, and properly adjust parameters. Emphasis is placed on axial spray, pulse spray, and short circuit mode of transfer depending on base metal. Students learn about and practice the FCAW

process, including types of electrodes, fluxes, and shielding gases used in these processes. Upon completion of this course, the student is able to weld in several positions, read some basic weld symbols, and have a basic understanding of written welding procedures.

Prerequisite: Intro to Welding 10442100

10442112 • 2 credits**Welding Print Reading**

In this course, students study print format, line types, orthographic views, dimensioning, welding symbols, and bill of materials. Students supply concepts by creating and fabricating from prints in individual and group activities.

10442115 • 2 credits**Welding Fabrication Techniques**

In this course, students fabricate parts from prints and weld assemblies with a specified welding process. Cutting and forming may be required prior to assembly. Depending on the size and complexity of the project, students may be asked to work in a team to complete an assignment.

Prerequisites: Admission to Welding program 314421 and Intermediate GTAW (TIG) 10442102

10442130 • 2 credits**Shielded Metal Arc Welding (SMAW)**

This course begins to build the knowledge and skills of the SMAW process commonly known as stick welding. Upon completion of this course, the student is able to weld in several positions, read some basic weld symbols, and have a basic understanding of written welding procedures.

Corequisite: Intro to Welding program 10442100

10442131 • 2 credits**Intermediate SMAW (Stick)**

This course is a continuation of Basic SMAW. Emphasis is placed on welding positions, technique, and understanding the AWS D1.1 welding code. Upon completion of this course, the student is able to weld in all positions without a backing plate on both V-Groove plate and pipe.

Corequisite: Basic GTAW (TIG) 10442101

10442132 • 2 credits**Metal Cutting Welding**

This course covers oxy-fuel cutting, plasma arc cutting, air-carbon arc cutting, mechanical cutting, and nontraditional cutting. Individual parts are produced using automatic and manual equipment. Both shop and field applications are practiced. The parts may be joined, by welding, to complete an assembly. Students may work in a team environment to complete assignments. This course is available to Welding program students only.

Corequisite: Intro to Welding 10442100

10442163 • 1 credit**Weld Inspections and Testing**

This course emphasizes measurement of weld defects and assessment of weld quality conformance to common welding codes. Students conduct etch tests, bend tests, and break tests on welds. Visual inspection, dye penetrant testing, and magnetic particle testing are practiced.

Prerequisite: Intro to Welding 10442100

31442301 • 4 credits**Basic Welding I**

Introduces fundamental skills, eye-hand coordination, and knowledge in SMAW (arc), oxyacetylene (gas), brazing, and cutting processes. Typical operations include tee, lap, corner, and butt joints in the flat position. Safety aspects of all welding operations are emphasized. *Prerequisite: Admission to Welding program 314421*

31442302 • 4 credits**Advanced Welding I**

Advanced skills and knowledge in the SMAW (arc), oxyfuel (gas), brazing, and soldering processes are developed in this course. Operations include the tee, lap, and butt joints in the overhead position. GTAW (TIG) and GMAW (wire) processes are introduced in the flat position. Tee, lap, corner, and butt joints are welded on aluminum, carbon steel, and stainless steel using the GTAW and GMAW processes.

Prerequisite: Basic Welding II 31442305

COURSE DESCRIPTIONS

31442303 • 3 credits

Related Welding I

A basic beginning course to develop entry skills in the fundamentals of SMAW (arc), GMAW (wire), oxyacetylene welding, and brazing. Typical operations include lap, tee, and butt joints in the flat and horizontal positions. Oxyfuel cutting and general information essential to safe welding practices are discussed via lecture, demonstration, films, and hands-on exercises.

31442305 • 4 credits

Basic Welding II

Further skill development and knowledge in the SMAW (arc), oxyfuel (gas), and brazing processes. Arc welding includes a variety of electrodes and manipulations including, whipping the E6010. Operations include tee, lap, corner, and butt joints in the horizontal and vertical positions. Butt joints are welded both open and with backing strips similar to state certification requirements. Introduces fundamental skills, eye-hand coordination, knowledge in SMAW (arc), oxyacetylene (gas), brazing, and cutting processes. Typical operations include tee, lap, corner, and butt joints in the flat position. Safety aspects of all welding operations are emphasized.
Prerequisite: Admission to Welding program 314421; Corequisite: Basic Welding I 31442301

31442306 • 4 credits

Advanced Welding II

Advanced skills using the GTAW (TIG) and GMAW (wire) processes on various metals, in all positions, are developed. Oxyacetylene welding and brazing of cast iron, plasma cutting, and other special materials and processes are introduced. Within the entire welding program, safety, welding codes, and local industrial practices are emphasized.
Corequisite: Advanced Welding I 31442302

31442307 • 1 credit

Basic Related Welding

Introduction to welding and welding safety. Gas welding, cutting, and basic arc welding are introduced. Learners may substitute Basic, Intermediate, and Advanced Related Welding for Related Welding I.

31442308 • 1 credit

Intermediate Related Welding

Gas and arc welding techniques are refined and reinforced. Learners may substitute the following courses Basic, Intermediate, and Advanced Related Welding for Related Welding I.
Prerequisite: Basic Related Welding 31442307

31442309 • 1 credit

Advanced Related Welding

Arc welding techniques are refined, and Gas Metal Arc Welding (GMAW) and Tungsten Inert Gas (TIG) processes are introduced. Learners may substitute Basic, Intermediate, and Advanced Related Welding for Related Welding I.
Prerequisite: Intermediate Related Welding 31442308

31442310 • 1 credit

Intro to TIG Welding

This course introduces students to the fundamentals of TIG welding.

462 INDUSTRIAL EQUIP MECHANIC

10462103 • 2 credits

Intro to Mechanical Technology

This course provides a basic introduction to the mechanical principles and components used in industrial machinery and equipment. Learners gain knowledge in safety, mechanical drive components, bearings, hydraulics, and elementary maintenance concepts. Students demonstrate competence in these areas through the performance of various laboratory and shop activities.

10462104 • 3 credits

Fluid Process Systems

Course provides a "hands-on" approach to the study of fluid handling systems. A wide variety of system components, including pumps, piping, seals and packing, flow control devices, flow measuring devices, and pressure vessels, are studied. System design considerations for fluid media temperature, pressure, specific gravity, viscosity, solids concentrations, and volume requirements are analyzed. An introduction to refrigeration and air conditioning provides the student with a basic understanding of these systems.

10462106 • 4 credits

Mechanical Power Transmission

A study of the systems and components that transmit power from the prime mover through the system. Gear trains, linkages, clutches, couplings, and flexible drives are evaluated mathematically in lab situations.
Prerequisite: Admission to Industrial Mechanical Technician program 104621

10462107 • 2 credits

Industrial Safety

This course provides an overview of safety, health, and environmental issues as they relate to industry. Various types of hazards and the controls and equipment used to reduce risks from hazards are discussed. Focus is placed on understanding the Occupational Safety and Health Administration (OSHA) and its function, as well as other regulatory and enforcement agencies associated with industrial safety, health, and the environment.

10462108 • 3 credits

Industrial Automation

This course introduces the fundamentals of industrial motor controls, relay logic, ladder diagrams, industrial automation, and integrated manufacturing systems. The purpose of the course is to familiarize students with the terminology, capabilities, applications, and limitations of automated industrial equipment and systems.

10462110 • 2 credits

Material Handling

This course introduces the concepts and equipment that transport solid materials in the industrial production process. Various types of equipment, including rigging, cranes, mechanical conveyors, pneumatic conveyors, elevators, and lift trucks, are discussed. Practical applications and use guidelines are presented to promote the safe and efficient utilization of this type of material handling equipment.

10462112 • 2 credits

Principles of Refrigeration and Air Conditioning Systems

This course introduces learners to the basic principles of operation of fixed refrigeration and air conditioning systems. Components, controls,

operations, and maintenance are discussed. Legal issues involving refrigerants are explored and preparation are included for EPA certification examinations.

10462113 • 2 credits

Advanced Refrigeration Concepts

Learners in this course gain detailed knowledge of larger refrigeration system operation and troubleshooting. Commercial codes and standards are covered. Air conditioning systems for large buildings are also covered.

Prerequisites: Admission to Industrial Mechanical Technical program 104621 and Principles of Refrigeration and Air Conditioning Systems 10462112

10462114 • 3 credits

Metals & Machining

A two-part class which introduces the basics of metal science and machine shop practice. Metallurgical concepts of steel and iron production, properties of metals, testing of metals, carbon and its rule, heat-treating, steel designations, and cast iron and non-ferrous metals are introduced. Students participate in lab exercises examining the properties of metal, an introduction to machine shop practices of safety, measurement, and machining through the use of hand tools, drilling machines, saws and engine lathes. Students will be introduced to those concepts by both classroom presentation and hands-on shop experiences.

Prerequisite: Admission to Automotive Technician 324042, Diesel & Heavy Equipment Technician 324121, Industrial Mechanical Technician 104621, Instrumentation & Control Engineering Technology 106054, Welding 314421, or Solar Electric Technician 104822 programs

10462116 • 3 credits

Metal Fabrication

An introduction to structural steel and plate fabrication, sheet metal fabrication, and basic electric arc and oxyacetylene welding. Fabrication techniques, metal selection, layout, cutting, bending, drilling, threading, and joining are presented. Information is presented to the student followed by lab activities to provide a hands-on experience. Emphasis is placed on

developing an understanding of the tools, techniques, safe work habits, and the application of metal fabrication skills.

Prerequisite: Admission to Automotive Technician 324042, Diesel & Heavy Equipment Technician 324121, Industrial Mechanical Technician 104621, Instrumentation & Control Engineering Technology 106054, Welding 314421, Machine Tool Technician 324201, Solar Electric Technician 104822, or Sustainable Heating & Cooling Technician 104831 programs

10462120 • 3 credits

Industrial Hydraulics & Pneumatics

Basic principles of hydraulics and pneumatics are studied. Covers the advantages, disadvantages, and inherent problems with these systems. The principles of operation and the constructional features of pumps, motors, valves, seals, packing, and conductors, as well as the physical properties of liquids, are also covered. Students learn to identify various parts of a circuit and to analyze them for their use.

Prerequisite: Intermediate Algebra with Applications 10804118

10462121 • 3 credits

Mobile Hydraulics Repair

Designed for students required to take a course on hydraulics found in diesel technology and heavy equipment programs. This class takes a practical approach to the understanding of fluid power/hydraulic systems. Instead of concentrating on the design issues of fluid power systems, this class approaches hydraulics more like a technician would approach a system that requires maintenance or troubleshooting. Nearly all aspiring technicians receive training in this subject, which is one of seven areas of study recognized by NATEF in diesel technology. Coverage includes a study of terminology, industrial standards, symbols, and basic circuitry design as related to fluid power. Examples are drawn from actual equipment that is relevant to the program of study, whether it be heavy truck, earth-moving, or agricultural equipment.

480 RENEWABLE ENERGY-FOUNDATIONS

10480100 • 2 credits

Alternative Energy Overview

In this course, students investigate the need for renewable energy systems and emerging careers in renewable energy. Students examine the basic design, function, cost, and other considerations associated with various "green" energy systems, including solar photovoltaic, solar thermal, wind, geothermal, and biomass. Students also explore the production and use of alternative transportation fuels.

10480101 • 4 credits

Intro to Renewable Energy Systems

In this course, students investigate the need for renewable energy systems and emerging careers in renewable energy. Students examine the basic design, function, cost, and other considerations associated with solar photovoltaic, solar thermal, wind, geothermal, and biomass renewable energy systems. Students also explore energy efficiency and conservation methods.

10480150 • 1 credit

Renewable Energy Academy

Students will participate in a series of workshops designed to expose them to the various renewable energy technologies and energy efficiency techniques. A field trip to the MREA Energy Fair is included.

10480190 • 2 credits

Renewable Energy Internship

Student internships provide an opportunity for career success through supervised on-the-job learning experiences. Through an internship, students apply subject knowledge learned in the program to the workplace under the direction of an experienced technician.

Prerequisite: Completion of 50% of program credits

10480195 • 2 credits

Renewable Energy/Energy Conservation-Special Topics

Selected hands-on project in renewable energy/energy conservation requiring students to apply subject knowledge learned in the program.

Prerequisite: Completion of 50% of program credits

COURSE DESCRIPTIONS

481 ENERGY CONSERVATION

10481100 • 2 credits

Intro to Energy Efficiency & Management

Students in this course are introduced to the principles of energy management and the energy efficiency industry. Students learn about the history of energy production and costs, and the dynamics of worldwide energy consumption and growth, including environmental and financial impacts and consequences. Building energy flows is described and analyzed. Students are introduced to the use of building diagnostic tools commonly employed in the industry to identify opportunities for improving energy efficiency. Building design features are examined for efficiency/management improvements or upgrades.

Prerequisite: Admission to Solar Electric Technician 104822, Renewable Energy Specialist 104823, or Sustainable Heating & Cooling Technician 104831 programs

10481109 • 2 credits

Building Envelope Analysis I

Students learn the tools and techniques used in the analysis of building shell integrity, with the first module to focus on blower door testing to quantify building envelope air leakage and infiltration rates. These concepts and skills are taught through extensive lab hours working directly with the tools of the trade.

Corequisites: Intro to Energy Efficiency & Management 10481100, Construction Fundamentals 10482107, and College Mathematics 10804107

10481110 • 3 credits

Building Science, Performance, & Evaluation

Students learn the tools and techniques used in the analysis of building shell integrity, focus on how to use an infrared camera to detect insulation, air, and water problems in a building, complemented by blower door testing. These concepts and skills are taught through extensive lab hours working directly with the tools of the trade. Students also investigate building ductwork leakage, building envelope tightness, and combustion efficiency.

Prerequisite: Construction Fundamentals 10482107

10481111 • 2 credits

Building Envelope Analysis III

Students learn the tools and techniques used in the analysis of building shell integrity, with a focus upon combustion safety testing and gas leakage testing, complemented by the use of the thermal imaging camera. These concepts and skills are taught through extensive lab hours working directly with the tools of the trade over the program schedule. Students develop skills doing assessments related to thermal and moisture problems in buildings in order to maintain healthy indoor air quality. Course includes air flow, metrics and standards for building 'tightness' (BPI), equipment tolerances for combustion safety and testing procedure, and implications on occupant health and safety.

Prerequisite: Building Envelope Analysis II 10481110

10481130 • 4 credits

Building Energy Modeling

The course covers a variety of computer programs available for analyzing buildings. Topics include BIN methodology, hourly simulations, utility rate analysis, cost estimating, analysis of energy efficiency measures, environmental and pollutant analysis, and financing options. Students perform supervised computer simulations using software packages such as eQuest, REM Rate, Energy Gauge, Optimizer. Students utilize software tools to prioritize potential energy efficiency measures based on both cost effectiveness and environmental impact.

Corequisite: Building Envelope Analysis III 10481111

10481140 • 2 credits

Energy Use & Investment Analysis

This course prepares students to make informed decisions on energy related investments. Topics include interest, simple payback, life-cycle analysis, cash flow, tax credits and deductions, depreciation, inflation, levelized cost of energy, environmental externalities, and net present value. The emphasis is on analysis of investments for renewable energy systems and energy efficiency improvements.

10481150 • 3 credits

Energy Analysis Capstone

Students perform critical examinations of energy consuming facilities, including residential and/or light commercial, for the purpose of identifying energy efficiency opportunities. In addition, the student identifies various energy efficiency measures, including equipment that can be installed to further reduce energy consumption. Energy audits are performed at various locations. The student creates a final energy audit report and energy management plan and present the plan, to both the class and to the energy management team or owner of the facility.

Prerequisite: Building Energy Modeling 10481130

482 RENEWABLE ENERGY-ELECTRICITY

10482100 • 2 credits

Intro to Renewable Electricity

Students in this course learn the basics of renewable electricity generation with particular emphasis on wind and solar energy. Topics include wind and solar resources, basic system components, system types, and applications.

Prerequisite: Admission to Solar Electric Technician 104822, Renewable Energy Specialist 104823, or Sustainable Heating & Cooling Technician 104831 programs

10482101 • 3 credits

Solar Site Assessment & Evaluation

Students learn the steps to perform solar electric and solar water heating site assessments of a home or business. Class content covers solar window determination, load analysis, site selection, system types, system sizing and efficiency measures, and energy output estimation. The course also covers an overview of existing renewable electric incentive programs.

Prerequisite: Intro to Renewable Energy Systems 10480101

10482102 • 2 credits**Wind Site Assessor Training**

Students learn the steps to perform wind site assessments of a home or business. Class content covers measuring wind energy potential, load analysis, site selection, system types, system sizing and efficiency measures, and energy output estimation. The course also covers an overview of existing renewable electric incentive programs and permitting procedures.
Prerequisite: Intro to Renewable Electricity 10482100

10482105 • 3 credits**Intermediate Electrical Theory & Applications**

Provides students with the information and knowledge necessary to accurately diagnose and solve electrical system faults. Main topics include safety and hazard awareness, electrical fundamentals, circuits and components, motors, wiring diagrams, common electrical service configurations, and troubleshooting.
Prerequisite: College Math 10804107

10482107 • 2 credits**Construction Fundamentals**

Students study the concepts associated with the theory, materials, and methods used in construction to include footings and foundations, walls, floors, roofs and roof materials, exterior finishes, interior walls, ceiling and floor finishes, insulation types, vapor and air infiltration, and sound protection. Additionally, students become familiar with blueprint reading and examine all the trades associated with construction, including electrical, HVAC, and plumbing. The safe use of the appropriate tools for each trade is covered.

10482110 • 3 credits**Photovoltaic System Design & Installation 1**

Students learn the details involved in the mechanical and electrical integration of a PV system. Topics include system components, product specifications, product integration, racking system design capabilities and limits, system diagramming, configurations, safety, common design mistakes and solutions, installation techniques. This course involves

students in the installation of a photovoltaic system.

Prerequisite: Intro to Renewable Energy Systems 10480101

10482111 • 3 credits**Photovoltaic System Design & Installation 2**

This course is a continuation of Photovoltaic System Design & Installation 1 and includes an in-depth focus of the electrical integration of a PV system. Topics include system design capabilities and limits, system diagramming, wiring configurations, safety, National Electrical Code, common design mistakes and solutions, wiring techniques, and installation techniques. System maintenance principles and commissioning are covered.

Prerequisite: Photovoltaic System Design & Installation I 10482110

10482115 • 2 credits**Grid-Tied Renewable Electric Systems**

This course covers Wisconsin's utility interconnect standard, net metering policies, and how they relate to photovoltaic and wind installations. This course provides an overview of electrical power distribution and transmission networks along with metering techniques. Class consists of both bench-top and field maintenance grid-tied renewable electric systems.

Prerequisite: Photovoltaic System Design & Installation 1 10482110

10482116 • 2 credits**Stand-Alone Renewable Electric Systems**

This course covers stand-alone systems for both wind and PV renewable electric systems. Topics include battery types and their specific uses, battery bank sizing and configuration, along with safety, maintenance, and components related to stand-alone systems.

Prerequisite: Photovoltaic System Design & Installation 1 10482110

10482120 • 3 credits**Wind Energy System Design and Installation**

Students learn the steps to perform wind site assessments of a home or business. Class content covers measuring wind energy potential, site selection, system types, and

energy output estimation. This course involves students in the installation of a tilt-up tower. Topics include proper use of tools and rigging systems, system design, layout, and turbine performance, as well as electrical integration of a wind system, wiring, and installation techniques.

Prerequisite: Intro to Renewable Energy Systems 10480101

10482121 • 2 credits**Wind Systems Installation II**

This course is a continuation of Wind System Installation and involves students in the electrical integration of a wind system. Topics include National Electrical Code, component selection, wiring techniques, installation techniques, and troubleshooting techniques including both bench-top and field maintenance of wind turbines.

Prerequisite: Wind Energy System Design and Installation 10482120 and Electrical Machines 10605127

10482140 • 2 credits**Planning, Design, & Project Management I**

Students in this capstone course design an integrated portfolio of energy systems, incorporating renewable energy options into a conventional system. Each learner will write a project proposal, work with project teams, sequence project tasks, develop project budgets, and identify project resources.

Prerequisite: Solar Heating System Design & Installation I 10483110

10482141 • 2 credits**RE-Planning, Design, & Project Management II**

This class is a continuation of Planning, Design, & Project Management I. Students create a capstone project that incorporates traditional and renewable energy systems with an overall goal of peak energy efficiency.

Prerequisite: Planning, Design, & Project Management I 10482140

10482150 • 2 credits**Advanced Renewable Electric Systems**

This course explores advanced renewable electric system designs including hybrid renewable electric systems, bimodal renewable electric systems, and micro-hydro systems, along with integration and interaction of multiple system types.

COURSE DESCRIPTIONS

Students complete a capstone project during the course.

Prerequisite: Successful completion of 12 credits of Solar Electric Technician 10-482 coursework.

483 RENEWABLE ENERGY-THERMAL

10483100 • 3 credits

Intro to Renewable Thermal Systems

This course provides an overview of a variety of renewable/alternative water and space heating systems, including solar, geothermal, and biomass. This overview includes an introduction to system design, installation, and operation.

Prerequisite: Admission to Solar Electric Technician 104822, Renewable Energy Specialist 104823, or Sustainable Heating & Cooling Technician 104831 programs

10483101 • 2 credits

Solar Water Heating Site Assessor Training

Students learn how to assess a facility for its potential for a solar hot water system. Students learn how to define a site's solar window, interpret solar radiation and temperature data, size a system, identify mounting and engineering considerations relevant to the installation, identify and recommend steps for energy efficiency, perform a load analysis, describe and identify components of a solar water heating system, perform a general cost estimate for a solar water heating installation, list installers and equipment vendors, and provide information on financial programs in Wisconsin.

Corequisite: Intro to Renewable Thermal Systems 10483100

10483110 • 3 credits

Solar Heating System Design & Installation

This course involves students in the installation and design of a solar hot water system. Topics include safety, system design and layout, component selection, mounting collectors, plumbing and insulating copper pipe, and installing a storage tank, heat exchanger, circulation pump, and other system components.

Prerequisite: Intro to Renewable Energy Systems 10480101

10483111 • 3 credits

Solar Heating System Design & Installation 2

This course is a continuation of Solar Heating System Design & Installation and focuses on system integration and advanced installations. It addresses solar space heating, solar pool heating, and solar cooling systems.

Prerequisite: Solar Heating System Design & Installation 10483110

10483112 • 2 credits

Solar Water Heating System Installation III

This course is a continuation of Solar Heating System Design & Installation 2 and involves students as the lead installer in a solar water heating system installation.

Prerequisite: Solar Water Heating System Installation 2 10483111

10483115 • 3 credits

Heat Load Estimation & Modeling

This course teaches the student how to use "Manual J" from ACCA. The student will develop the skills to do residential heating and cooling heat loads. Students will calculate heat loss and also losses or gains due to infiltration, sun loads, etc. The student will do calculations on actual buildings using ACCA industry standard form J-1. The student will also estimate energy upgrades, such as insulation and window improvements, and calculate payback and fuel savings.

10483120 • 2 credits

Heating & Plumbing Fundamentals

Heating system topics include introduction to heat principles, temperature measurement, fuels and other sources of heat, combustion, basic heating systems, basic furnace design, gas furnace design and operation, venting of furnaces, chimney or exhaust gases, and system controls. Plumbing system topics include fluid dynamics (pressure, resistance, and flow), basic system design, water heating, and operation of standard plumbing fixtures.

10483121 • 2 credits

Piping Fundamentals

This course presents the theory of basic methods of plumbing and piping installation practices. Laboratory activities provide students with basic pipe joining processes associated with the plumbing field.

10483122 • 2 credits

Ventilation, Cooling, & Refrigeration Fundamentals

Topics covered include air conditioning principles and terms, physical principles of air movement, air filtering and humidity, and methods of conditioning air for comfort and health. In addition, the proper use of psychrometers, dry bulb thermometers, hygrometers, and reading and interpretation of psychrometric charts and scales are covered, along with ASHRAE and BPI ventilation standards for residential units. Descriptions of new products and maintenance and operations for residential and commercial cooling systems are also covered, emphasizing energy conservation and efficiency options for new and existing equipment.

10483130 • 3 credits

HVACR Circuits & Controls

Topics in this course include an introduction to AC/DC electricity and the physical laws that apply to electronic circuits. Direct Current (DC) covers basic definitions of voltage, current, and resistance and analysis of series and parallel resistive circuits. Alternating Current (AC) includes an introduction to AC generation, capacitors, inductors, and transformers and their applications in electronic circuits. Additional topics include control circuits, symbols, diagrams, protection devices, relays, thermostats, single-phase motors, control components, and troubleshooting ACR system wiring diagrams.

Prerequisite: Electrical Circuits I 10605105 or Intro to Electronics 10605108

10483131 • 2 credits

HVACR Installation & Service

This course addresses residential and light commercial heating, cooling, and refrigeration systems. Emphasis is placed on the diversity of heating and cooling systems and how they operate. Students participate in the installation of a variety of HVACR systems and troubleshoot and service systems.

Prerequisite: Heating and Plumbing Fundamentals 10483120 and Ventilation, Cooling, & Refrigeration Fundamentals 10483122

10483151 • 3 credits**Geothermal Systems**

This course provides an overview of geothermal water and space heating/cooling systems. This overview includes an introduction to system design, installation, and operation.

Prerequisites: Intro to Renewable Thermal Systems 10483100; Ventilation, Cooling, & Refrigeration Fundamentals 10483122; and College Mathematics 10804107

10483161 • 2 credits**Advanced Renewable Thermal Systems**

This course explores advanced designs of renewable thermal systems, including geothermal, wood gasification boilers, hydronic cooling, and integrated systems. This course also includes a project based learning experience. Students complete a capstone project of their choosing.

Prerequisite: Successful completion of 12 credits of Sustainable Heating & Cooling 10-483 coursework

484 BIO-FUELS/BIO-MASS

10484110 • 2 credits**Bioenergy Production I**

This course provides training on fuel/energy production techniques relating to feed stock preparation, process chemicals and procedures, fuel quality improvements, fuel storage and transportation, fuel use and engine performance, safety, and wastes handling.

Prerequisite: Intro to Process Technology 10484117

10484111 • 2 credits**Bioenergy Production II**

This course builds on Bioenergy Production I to provide training on fuel/energy production techniques relating to feed stock preparation, process chemicals and procedures, fuel quality improvements, fuel storage and transportation, fuel use and engine performance, safety, and wastes handling.

Prerequisite: Bioenergy Production I 10484110

10484112 • 2 credits**Bioenergy Production III**

This course builds on Bioenergy Production II to provide advanced training in fuel/energy production techniques relating to feed stock preparation, process chemicals and procedures, fuel quality improvements, fuel storage and transportation, fuel use and engine performance, safety, and wastes handling.

Prerequisite: Bioenergy Production II 10484111

10484117 • 2 credits**Intro to Process Technology**

This course provides basic orientation for operators in the biorefining industry. The course introduces terms that are encountered in the workplace. Topics include operator roles, responsibilities, and basic plant equipment. Simulation labs on process control and product testing are included.

Prerequisite: Admission to Process & Biorefinery Technology program 104841

10484190 • 3 credits**Biorefinery Process Control**

This capstone course examines process control systems and software common to the biorefining industry. Troubleshooting of processes are emphasized.

Prerequisite: Final semester Process & Biorefinery Technology program student

501 MEDICAL TERMINOLOGY

10501101 • 3 credits**Medical Terminology**

Students focus on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems, as well as systemic and surgical terminology.

10501108 • 2 credits**Pharmacology for Allied Health**

Introduces students to classifying medications into correct drug categories and applying basic pharmacology principles. Students apply basic pharmacodynamics to identifying common medications, medication preparation, and administration of medications used by the major body systems.

10501109 • 2 credits**Medical Law, Ethics, and Professionalism**

Prepares students to display professionalism and perform within ethical boundaries in the health care setting. Students maintain confidentiality, examine legal aspects of the medical record, perform risk management procedures, and examine legal and bioethical issues.

10501110 • 2 credits**Healthcare Communication Strategies**

Develop communication skills used in a variety of settings with diverse populations. Students understand and practice skills to enhance communication as service providers and team members.

Develop ability to understand and empathize given new approaches to patient care and evolving technology.

10501123 • 1 credit**Student Success in Allied Health**

Learners explore success strategies for allied health programs, including time management, study skills, test preparation, and test-taking skills, planning and stress management.

Prerequisite: Admission to Central Service 305341 or Surgical Technologist 315121 programs

10501142 • 1 credit**Health Careers Exploration Seminar**

The learner develops a basic understanding of the current healthcare delivery system, and careers in the career clusters of patient care, diagnostic services, therapeutic services, and health information services. The student observes selected health professionals in their work setting.

**502 BARBERING/
COSMETOLOGY**

30502701 /// 4 credits**Haircutting for Barbers**

This course introduces haircutting theory and terminology and provides students with practice in basic and advanced haircutting techniques as well as trend cuts.

Prerequisite: Admission to Barber Technologist program 305025

30502702 /// 2 credits**Facial Hair & Skin Care Services for Barbers**

This course includes how to apply facial physiology and skin analysis in facial hair design, hair removal, facial massage, and facial treatment.

Prerequisite: Admission to Barber Technologist program 305025

30502703 /// 2 credits**Introduction to the Barber Profession**

This course provides an overview of the barbering profession, safety and decontamination in the barbershop, properties and disorders of the skin and scalp, and related science theory.

Prerequisite: Admission to Barber Technologist program 305025

30502704 /// 2 credits**Haircoloring for Barbers**

This course includes the theory and chemistry of color mixing as well as procedures including lightening, cap,

COURSE DESCRIPTIONS

foiling, and corrective color.

Prerequisite: Admission to Barber Technologist program 305025

30502705 /// 2 credits

Chemical Texturing for Barbers

This course provides an overview of permanent waving, including various wrap techniques, hair relaxing applications, reformation curls, and chemical blow-out services.

Prerequisite: Admission to Barber Technologist program 305025

30502706 /// 2 credits

Hairstyling for Barbers

This course emphasizes wet and dry hairstyling and includes hair analysis, shampooing, conditioning, reconditioning, scalp and hair treatments, blow drying, fingerwaves, pincurls, roller setting, thermal styling, and hair replacement techniques.

Prerequisite: Admission to Barber Technologist program 305025

30502722 /// 1 credit

Business Management for Barbers

This course includes business and management principles for barbers, barbering rules and regulations, and career strategies.

Prerequisite: Admission to Barber Technologist program 305025

30502730 /// 2 credits

Barber Client Services 1

Client services performed by the barber. Emphasis is on hair and scalp analysis, shampooing, haircutting techniques, shaving, and chemical services. Students apply knowledge and skills to provide barber services on customers in the on-campus salon.

Prerequisites: Haircutting for Barbers 30502701, Facial Hair & Skin Care Services for Barbers 30502702, and Introduction to the Barber Profession 30502703; Corequisites: Haircoloring for Barbers 30502704, Chemical Texturing for Barbers 30502705, and Hairstyling for Barbers 30502706

30502731 /// 2 credits

Barber Client Services 2

In this course, students explore client services performed by the barber. Emphasis is on hair and scalp analysis, shampooing, haircutting techniques, shaving, facial services, and chemical services. Students apply knowledge and skills to provide all barber services on customers in the on-campus salon.

Prerequisite: Barber Client Services 1 30502730

30502732 /// 2 credits

Barber Client Services 3

In this course, students practice building speed and accuracy in client services performed by the barber. Emphasis is on haircutting techniques, shaving, facial services, and chemical services. Students apply knowledge and skills to provide all barber services on customers in the on-campus salon.

Corequisite: Barber Client Services 2 3050273

30502733 /// 2 credits

Barber Client Services 4

In this course, students practice building speed and accuracy in client services performed by the barber. Emphasis is on haircutting techniques, shaving, facial services, and chemical services. Students apply knowledge and skills to provide all barber services on customers in the on-campus salon.

Corequisite: Barber Client Services 3 30502732

30502734 /// 2 credits

Barber Client Services 5

This course provides students with opportunities to acquire barbering skills in preparation for entry-level, licensed employment. Emphasis is on providing services with speed and accuracy, including hair and scalp analysis, shampooing, haircutting, shaving, facial services, and chemical services. Students apply knowledge and skills to provide all barber services on customers in the client lab and complete preparation for the Wisconsin State Barber licensing exam.

Corequisite: Barber Client Services 4 30502733

31502306 • 1 credit

Cosmetology Review

The review course is taken when an individual needs additional training in order to meet the State of Wisconsin's 1800-hour requirement. The course is 54-hours in length. Multiple sections of the course may be taken. Individual student schedules are determined by TheSalon@MSTC hours of operation.

Prerequisite: Admission to Cosmetology program 315021 and consent of instructor

31502315 • 1 credit

Salon Business

This course provides learning experiences for students that focus on the history of cosmetology, career opportunities, personality development, professional image, communicating with clients and colleagues, how to open a salon,

preparing for employment, and skills needed on the job. Through a variety of teaching and learning techniques and videos, scenarios are developed in which interaction skills and salon applications are practiced and fine-tuned. All of the skills covered and developed in this course are necessary for success in the workplace. This course is provided online only.

Prerequisite: Admission to Cosmetology program 315021

31502316 • 1 credit

Theory of General Sciences

This course covers several general science topics integral to the field of barbering/cosmetology: bacteriology, infection control, properties of the hair and scalp, nail structure and growth, skin diseases and disorders, introduction to electrology, the basics of electricity, chemistry, and anatomy and physiology. This course is offered online only.

Prerequisite: Admission to Cosmetology program 315021

31502334 • 3 credits

Hairstyling

This course emphasizes wet and dry hairstyling to include rollers, air-forming, thermal styling, hair straightening, finger waving, pin curls, hair analysis, shampooing, scalp treatments, braiding, long hair design, and hair pressing. Fundamentals of thermal styling and comb outs are performed. Practical aspects of hair enhancements including wigs, hair extensions, and hair pieces are also performed.

Prerequisite: Admission to Cosmetology program 315021

31502335 • 3 credits

Haircutting

This course involves designing haircuts, understanding form, and applying various haircutting techniques. Students perform various haircuts, including blunt, uniform, increased, and graduated haircuts. Students also perform men's haircuts, including razor cutting, shear over comb, clipper cutting clipper over comb, short tapered, and flattops.

Trimming techniques used for men's facial hair, including shaving, beards, mustaches, and side burns, are also emphasized and practiced.

Prerequisite: Admission to Cosmetology program 315021

31502336 • 3 credits

Chemical Texture Services

This course includes the basics of safe and sanitary permanent waving and

chemical hair relaxing. History and product knowledge of these chemical services as well as advanced techniques and procedures which define current trends in the salon are included.

Prerequisite: Admission to Cosmetology program 315021

31502337 • 1 credit

Nail Technology

Students achieve skills in manicuring, pedicuring, and nail enhancement services, which include polish application and massage techniques. Students study nail shape and safe and sanitary use of nail care products. Paraffin hand dips, advanced polish techniques, and various nail art application are practiced.

Prerequisite: Admission to Cosmetology program 315021

31502338 • 1 credit

Salon Services I

This course promotes beginning-level concentrated student development of skills and proficiencies by providing a wide range of client-related services. Emphasis is placed on client consultations, proper business practices, professional attitudes, and refining techniques that ensure entry-level preparedness for the Wisconsin Licensing exam. Students complete this course by working in an on-campus beauty salon environment.

Corequisites: Haircolor 31502347, Hairstyling 31502334, Haircutting 31502335, Chemical Texture Services 31502336, Nail Technology 31502337, and Theory of General Sciences 31502316

31502339 • 2 credits

Salon Science & Business Technology

This course introduces basic chemistry and its relationship to ingredients in professional products. Students identify and become familiar with effective merchandising displays, product knowledge, and successful selling methods. They expand their skills in interpersonal communications to successfully meet the needs of clients. In addition, they are introduced to computer skills which are needed for successful employability.

Prerequisite: Admission to Cosmetology program 315021

31502340 • 1 credit

Facials

Students learn the different types of skin. Structure and functions of the skin are studied and basic facial techniques applied. Students study microdermabrasion, laser hair removal,

and chemical peels. They perform basic skin waxing techniques, removal of superfluous hair, makeup application, false eyelash application, and skin analysis.

Prerequisite: Admission to Cosmetology program 315021

31502341 • 1 credit

Wisconsin State Law

This course helps students understand barber/cosmetology rules and statutes for safely performing services in the industry. Students study the Wisconsin statutes and laws relating to the practice of barbering and cosmetology. This course is offered online only.

31502342 • 3 credits

Capstone Experience

Students prepare for the state board exam and for securing a job. Students complete a mock assessment of all state board practical and written concepts, including state law. Students also prepare for their job search and for working with the business side of the cosmetology industry.

Corequisites: Salon Services II 31502343, Facials 31502340, Saturday Salon 31502348, and consent of instructor

31502343 • 4 credits

Salon Services II

This course builds on Salon Services I by promoting student development of skills and proficiencies in delivering a wide range of client-related services. Emphasis is placed on client consultations, proper business practices, professional attitudes, and refining techniques that ensure entry-level preparedness for the Wisconsin Licensing exam. Students complete this course by working in an on-campus beauty salon environment.

Prerequisite: Salon Services I 31502338

31502344 • 4 credits

Salon Services III

This course builds on techniques practiced in Salon Services I and II, concentrating on student development of skills and proficiencies by providing a wide range of client-related services. Emphasis is placed on client consultations, proper business practices, professional attitudes, and refining techniques that ensure entry-level preparedness for the Wisconsin Licensing exam. Students complete this course by working in an on-campus beauty salon environment.

Prerequisite: Salon Services I 31502338

31502345 • 4 credits

Salon Services IV

This course builds on techniques practiced in Salon Services I, II, and III, concentrating on student development of skills and proficiencies by providing a wide range of client-related services. Emphasis is placed on client consultations, proper business practices, professional attitudes, and refining techniques that ensure entry-level preparedness for the Wisconsin Licensing exam. Students complete this course by working in an on-campus beauty salon environment.

Prerequisite: Salon Services I 31502338

31502346 • 4 credits

Salon Services V

This course builds on techniques practiced in Salon Services I, II, III, and IV, concentrating on student development of skills and proficiencies by providing a wide range of client-related services. Emphasis is placed on client consultations, proper business practices, professional attitudes, and refining techniques that ensure entry-level preparedness for the Wisconsin Licensing exam. Students complete this course by working in an on-campus beauty salon environment. Basic first aid is covered in this course.

Prerequisite: Salon Services I 31502338

31502347 • 3 credits

Haircolor

This course covers haircolor basics which include the law of color, the color wheel, and the theory behind these concepts. Students will identify the chemicals used in haircolor and discover the differences between temporary, semi/demi, and permanent color. Students will mix and apply color while developing skills and building client consultation techniques. Application methods governed by the state board regulations will be studied. The study of bleach theory and complete lightening applications, including foiling, is taught. Students will experience advanced color formulations, color placement techniques, and color correction procedures.

Prerequisite: Admission to Cosmetology program 315021

31502348 • 2 credits

Saturday Salon Services

This course promotes student development of skills and proficiencies in delivering a wide range of client-related services. Emphasis is placed on

COURSE DESCRIPTIONS

client consultations, proper business practices, professional attitudes, and refining techniques that ensure entry-level preparedness for the Wisconsin Licensing exam. Students complete this course by working in an on-campus beauty salon on Saturdays.

Prerequisite: Salon Services I 31502338

31502349 • 3 credits

Summer Salon Services IV

This course builds on techniques learned in the classroom and practiced in the salon, concentrating on development of skills and proficiencies by providing a wide range of client services. Emphasis is placed on client consultations, proper business practices, professional attitudes, and refining techniques that ensure entry-level preparedness for the Wisconsin licensure exam. Students complete this course in the on-campus salon.

Prerequisite: Salon Services I 31502338

31502350 • 3 credits

Summer Salon Services V

This course builds on techniques learned in the classroom and practiced in the salon, concentrating on development of skills and proficiencies by providing a wide range of client services. Emphasis is placed on client consultations, proper business practices, professional attitudes, and refining techniques that will ensure entry-level preparedness for the Wisconsin licensure exam. Students complete this course in the on-campus salon.

Prerequisite: Salon Services I 31502338

504 CRIMINAL JUSTICE

10504108 • 3 credits

Intro to Investigation Support Services

This course focuses on supportive aspects of law enforcement investigations. The course includes instruction in police photography, fingerprinting, latent fingerprint searching, developing, and lifting. Computer based composite sketching and crime scene sketching are introduced.

Prerequisite: Admission to Criminal Justice-Law Enforcement program 105041

10504110 • 2 credits

Criminal Justice Service Readiness

This course is intended to assist students in their efforts to secure employment upon graduation. Students complete a basic resume, cover letter,

interview thank-you letter, and a standard law enforcement or corrections application. Students also prepare for a criminal justice career interview and participate in a mock interview with current practitioners from law enforcement or corrections agencies.

Prerequisite: Admission to Criminal Justice-Law Enforcement 105041 or Criminal Justice-Corrections 105042 programs

10504112 • 3 credits

Court Procedures

This course examines the court system including procedures from incident of arrest to final disposition. The stages of a criminal trial are examined in depth. The authority of law enforcement officials to arrest and/or detain a subject is reviewed. Constitutional, federal, state, and civil laws as they apply to this criminal process are presented. Victims' rights are examined.

Prerequisite: Admission to Criminal Justice-Corrections program 105042

10504116 • 3 credits

Probation & Parole

Analyzes modern probation and parole practices and services; examines current probation procedures and the case law affecting those decisions; and reviews the advantages of community-based treatment, special programs, and the use of non-professionals. Through learning activities, students are exposed to a portion of the "daily life" of a probation & parole agent.

Prerequisite: Admission to Criminal Justice-Corrections program 105042

10504125 • 2 credits

Patrol Procedures

Prepares students to demonstrate effective patrol techniques and utilize computer information as well as telecommunication systems available to police agencies. Respond safely and effectively to crime, crime victims, domestic abuse, and other mandatory arrest situations. React appropriately to disasters and hazardous materials situations. Students are exposed to procedures and strategies used while conducting low- and high-risk vehicle contacts.

Prerequisite: Admission to Criminal Justice-Law Enforcement program 105041

10504128 • 3 credits

Telecommunications for Corrections

Prepares learners to embrace emergency communications as a profession; describe legal and ethical issues regarding telecommunicator

responsibility and accountability; apply enhanced 9-1-1, computer-aided dispatch and map reading techniques; apply proper call receiving guidelines; demonstrate effective emergency radio communications techniques; interpret police computer information system data; perform telecommunications record-keeping functions; demonstrate effective crisis management skills in techniques to alleviate stress in emergency communications; and perform simulated dispatch functions.

Prerequisite: Admission to Criminal Justice-Corrections program 105042

10504130 • 3 credits

Traffic Theory II

This course includes basic operator training in RADAR speed measurement and law enforcement use of electronic control devices. National Highway Traffic Safety Administration (NHTSA) RADAR operator certification and Taser Corporation operator certification are optional for students who successfully meet the practical and written assessment requirements.

Prerequisites: Admission to Criminal Justice-Law Enforcement program 105041 and Traffic Theory 10504908

10504132 • 3 credits

Advanced Relational Communications Skills

This course uses scenario-based instruction to prepare students in the use of specific techniques and processes that are required for effective communication in today's professional criminal justice professions. Emphasis is given to those communication skills that enhance professional interactions within the corrections field.

Prerequisite: Admission to Criminal Justice-Corrections program 105042

10504144 • 3 credits

Wellness in Corrections

Learners develop and apply the skills and abilities needed to deal constructively with stressors in the correctional field. Focus is on assessing individual stressors, analyzing the impact of stress, reducing stressors, and developing stress-coping mechanisms. Coping mechanisms include assertion, anger management, conflict resolution, time management, relaxation activities, and exercise and diet planning.

Prerequisite: Admission to Criminal Justice-Corrections program 105042

10504151 • 2 credits
Tactical Application of Skills & Knowledge-Beginning

This course provides the opportunity for students to apply the beginning skills and knowledge learned in foundational criminal justice courses through reality-based training.

Prerequisite: Admission to Criminal Justice-Law Enforcement program 105041

10504152 • 2 credits
Tactical Application of Skills & Knowledge-Intermediate

This course provides the opportunity for students to apply the intermediate skills and knowledge learned in first and second semesters criminal justice courses through reality-based training.

Prerequisites: Admission to Criminal Justice-Law Enforcement Program 105041 and TASK-Beginning 10504151

10504153 • 2 credits
Tactical Application of Skills & Knowledge-Advanced

This course provides the opportunity for students to apply the advanced skills and knowledge learned in the first three semesters of the Criminal Justice program through reality-based training.

Prerequisites: Admission to Criminal Justice-Law Enforcement Program 105041 and TASK-Intermediate 10504152

10504154 • 2 credits
Tactical Application of Skills & Knowledge-Capstone

This course provides the opportunity for students to apply all the skills and knowledge learned throughout the four semesters of the Criminal Justice-Law Enforcement program, through reality-based training.

Prerequisites: Admission to Criminal Justice-Law Enforcement Program 105041 and TASK-Advanced 10504153

10504155 • 1 credits
POSC Practical Application

This course provides students the opportunity to refresh and enhance Principles of Subject Control (POSC) knowledge and skills. Students review the rules associated with the application of POSC, observe instructor demonstration of techniques, and practice those learned techniques.

Prerequisite: Correctional Facilities Emergency Response 10504193

10504171 • 3 credits
Advanced Criminal Investigation Techniques

This course provides the student with skills necessary for document analysis, forgery detection, handwriting identification, deception in written statements, and documentation and report preparation.

10504172 • 3 credits
Advanced Crime Scene Processing

This course introduces the student to specialized equipment utilized to enhance investigations. The student learns skills necessary for crime scene photography, crime scene searches, advanced latent fingerprint recovery, and advanced techniques for working with suspects, witnesses, and victims at crime scenes.

10504173 • 3 credits
Evidence and Evidence Processing

This course introduces the student to the functions of the Wisconsin Crime Lab. The student also learns advanced skills necessary for packaging and processing evidence, maintaining the chain of custody, and the science and processes associated with DNA evidence collection and processing.

10504174 • 3 credits
Advanced Computer Crime Investigative Techniques

This course provides the student with the knowledge and skills necessary to identify computer generated theft and other computer scams, hacking and computer crimes, and searching computers and digital data for evidence collection.

10504181 • 2 credits
Law Enforcement Certification Track-DAAT

This course is a required component for Wisconsin Department of Justice Law Enforcement Officer certification. The course includes instruction in the use of defensive and arrest tactics and the appropriate use of force in disturbance resolution.

Prerequisites: Admission to Criminal Justice-Law Enforcement program 105041 and completion of the first and second semesters of Criminal Justice-Law Enforcement 105041 program curriculum

10504182 • 2 credits
Law Enforcement Certification Track-Firearms

This course is a required component for

Wisconsin Department of Justice Law Enforcement Officer certification. The course includes instruction in the use of law enforcement firearms and deadly force decision making.

Prerequisites: Admission to Criminal Justice-Law Enforcement program 105041 and completion of the first and second semesters of Criminal Justice-Law Enforcement 105041 program curriculum

10504183 • 4 credits
Law Enforcement Certification Track-Traffic

This course is a required component for Wisconsin Department of Justice Law Enforcement Officer certification. The course includes instruction in the use of emergency vehicle operation and control, vehicle contacts, operating a motor vehicle while intoxicated/standardized field sobriety testing, and tactical response.

Prerequisites: Admission to Criminal Justice-Law Enforcement program 105041 and completion of the first and second semesters of Criminal Justice-Law Enforcement 105041 program curriculum

10504188 • 3 credits
Adolescent/Juvenile Supervision

Learners review theories of adolescent development, history of juvenile court, the Wisconsin Juvenile Code, and the Wisconsin Administrative Code as it applies to juvenile offenders. Learners become familiar with procedures to admit/release adolescents in secure detention. Additionally, learners apply strategies for effective supervision, protection, and discipline of juveniles and adolescents, including those classified as special-needs offenders, in secure detention settings.

Prerequisite: Admission to Criminal Justice-Corrections program 105042

10504192 • 3 credits
Intro to Corrections

This course examines the history and current trends of the correctional system in the United States. Students analyze the changing philosophies of corrections and review the programs available to offenders at various stages of their involvement in the criminal justice system. Chain of command, management practices, personnel needs, types of offenders, organizational theories, policymaking, and the role of correctional personnel are addressed. Additional

COURSE DESCRIPTIONS

emphasis is placed on the role of the correctional employee and on effective management techniques to be utilized when working with offenders, including how to "avoid manipulation."

Prerequisite: Admission to Criminal Justice-Corrections program 105042

10504195 • 2 credits

Corrections Officer Internship

This course is designed to provide students the opportunity for the student to observe and/or apply in the workplace the concepts, principles, and skills they have learned in Criminal Justice-Corrections course work. The internship assists the student in the development of basic skills necessary for a productive job search.

Prerequisite: Admission to Criminal Justice-Corrections program 105042, sophomore academic level, and cumulative grade point average of 2.5

10504197 • 3 credits

Law Enforcement Tactical Skills Refresher I

This course provides students the opportunity to refresh their skills and knowledge in the law enforcement tactical skills that include defensive and arrest tactics and firearms.

Prerequisites: Admission to Criminal Justice-Law Enforcement program 105041, Law Enforcement Certification Track-DAAT 1050418, Law Enforcement Certification Track-Firearms 10504182, and Law Enforcement Certification Track-Traffic 10504183

10504198 • 3 credits

Law Enforcement Tactical Skills Refresher II

This course provides students the opportunity to refresh their skills and knowledge in the law enforcement tactical skills that include emergency vehicle operation and control and vehicle contacts.

Prerequisites: Admission to Criminal Justice-Law Enforcement program 105041, Law Enforcement Certification Track-DAAT 1050418, Law Enforcement Certification Track-Firearms 10504182, and Law Enforcement Certification Track-Traffic 10504183

10504199 • 2 credits

Law Enforcement Internship

An excellent opportunity to experience first-hand the wide variety of duties and responsibilities of criminal justice professionals, including patrol officer, investigator, corrections officer, dispatcher,

evidence custodian, records officer, and court officer. Due to limited availability of internship locations and agency requirements, there is a prescribed selection process for participation.

Prerequisite: Admission to Criminal Justice-Law Enforcement 105041 or Criminal Justice-Corrections 105042 programs, sophomore academic level, and cumulative grade point average of 2.5

10504900 • 3 credits

Introduction to Criminal Justice

In this course, learners distinguish between the roles and functions of courts with jurisdiction in Wisconsin; differentiate between the roles and functions of federal, state, and local law enforcement agencies; apply professional principles as a law enforcement officer; determine modern police functions and policies from an historical perspective; identify the role of law enforcement officers in American society; utilize a decision-making model; identify the characteristics of a good decision maker; describe how professionalism, ethics, and moral standards relate to a law enforcement career; practice a code of behavior; incorporate ethical decision-making strategies; describe how decisions are made; enhance an officer's critical thinking and police problem-solving skills; apply principles of critical thinking, decision making, and problem solving; identify required law enforcement policies; defend the importance of written agency policies; and distinguish between "ministerial" and "discretionary" duties.

This course consists of competencies and learning objectives from the following blocks of instruction from the Law Enforcement Standards Board 520-hour Law Enforcement Basic Training Curriculum: Professional Orientation - 4 hours; Policing in a Free Society - 4 hours; Ethics - 10 hours; Critical Thinking and Problem Solving - 10 hours; and Agency Policy - 2 hours.

Prerequisite: Admission to Criminal Justice-Law Enforcement program 105041

10504901 • 3 credits

Constitutional Law

Learners will diagram structure of the criminal justice system, identify situations where constitutional rules are applicable, identify situations where an officer may use reasonable suspicion to contact a subject, identify the elements of a lawful arrest, identify search-related activities where the 4th amendment is not applicable, identify the requirements that pertain to

search warrants, analyze situations where an officer may conduct a search without a warrant, compare the requirements for conducting routine searches with those for searching disabled persons and strip searches, identify the requirements of the laws governing confessions and statements, and analyze the various requirements that evidence must meet before it can be admitted in court. This course consists of competencies and learning objectives from the following blocks of instruction from the Law Enforcement Standards Board 520-hour Law Enforcement Basic Training Curriculum: Constitutional Law - 30 hours.

Prerequisite: Admission to Criminal Justice-Law Enforcement program 105041

10504902 • 3 credits

Criminal Law

Learners identify basic concepts of criminal law; analyze facts, circumstances, and situations to determine which crimes against persons and property have been committed; and determine which crimes involving drugs, alcohol, or other criminal activity have been committed. This course consists of competencies and learning objectives from the following block of instruction from the Law Enforcement Standards Board 520-hour Law Enforcement Basic Training Curriculum: Crimes - 12 hours.

Prerequisite: Admission to Criminal Justice-Law Enforcement 105041 or Criminal Justice-Corrections 105042 programs

10504903 • 3 credits

Professional Communications

In this course, the learner will apply knowledge of the communication process, apply communication techniques, integrate verbal and physical intervention skills, develop strategies to obtain information in a variety of situations, differentiate between interview and interrogation, and analyze information for consideration as corroborative evidence. This course consists of competencies and learning objectives from the following blocks of instruction from the Law Enforcement Standards Board 520-hour Law Enforcement Basic Training Curriculum: Professional Communication - 24 hours and Interview and Interrogation - 6 hours.

Prerequisite: Admission to Criminal Justice-Law Enforcement program 105041

10504904 • 3 credits**Juvenile Law**

In this course, the learner will describe the juvenile justice system, describe the handling of cases of children in need of protection or services, describe the handling of cases of juveniles in need of protection or services or alleged to be delinquent, identify constitutional law issues that are relevant to juveniles, analyze the role of law enforcement in responding to child maltreatment, explain the issues involved in investigating incidents of child victimization, intervene and apply appropriate investigative strategies, describe the roles of other agencies in child maltreatment cases, and recognize the unique investigative issues for missing children. This course consists of competencies and learning objectives from the following blocks of instruction from the Law Enforcement Standards Board 520-hour Law Enforcement Basic Training Curriculum. Juvenile Law - 8 hours and Child Maltreatment - 8 hours. *Prerequisite: Admission to Criminal Justice-Law Enforcement 105041 or Criminal Justice-Corrections 105042 programs*

10504905 • 3 credits**Report Writing**

Learners explain the context of report writing, take effective field notes, organize information in reports, write narratives, describe what information should be included in certain types of reports, prepare for court, describe how to be an effective witness, and testify as a witness in court. This course consists of competencies and learning objectives from the following blocks of instruction from the Law Enforcement Standards Board 520-hour Law Enforcement Basic Training Curriculum. Report Writing - 22 hours and Testifying in Court - 8 hours. *Prerequisite: Admission to Criminal Justice-Law Enforcement program 105041*

10504906 • 3 credits**Criminal Investigation Theory**

Learners describe the role evidence plays in criminal investigations and prosecutions; apply the steps for processing crime scenes; apply appropriate strategies to locate, handle, and package evidentiary items; document the crime scene; recognize the unique investigative issues for crimes against life; apply appropriate strategies to secure the

scene, collect, and preserve evidence, and investigate a death; recognize the dynamics of victimization; apply knowledge of the definitions and responsibilities for law enforcement; apply appropriate interview techniques with adult or child victims; analyze the role of law enforcement in responding to domestic abuse; intervene and apply appropriate investigative strategies; respond to an officer-involved domestic violence incident; analyze the role of law enforcement in responding to sexual abuse; demonstrate investigative techniques in a simulated sexual assault case; and identify other resources that can assist in sexual assault cases. This course consists of competencies and learning objectives from the following blocks of instruction from the Law Enforcement Standards Board 520-hour Law Enforcement Basic Training Curriculum. Physical Evidence Collection - 8 hours, Victims - 8 hours, Domestic - 12 hours, and Sexual Assault - 12 hours. *Prerequisite: Admission to Criminal Justice-Law Enforcement program 105041*

10504907 • 3 credits**Community Policing Strategies**

Learners identify local community resources, describe the role of an advocacy group in the criminal justice community, demonstrate cultural self-awareness, interpret state and federal laws related to discrimination and diversity, utilize appropriate skills for interacting effectively and professionally with persons from culturally diverse backgrounds and lifestyles, identify and implement personal strategies that take into account cultural differences, identify the types of situations and the characteristics of individuals that are likely to be encountered in crisis management situations, apply Wisconsin statutory requirements and general guidelines regarding emergency detentions and emergency protective placements of persons, identify key concepts and elements associated with law enforcement response to people in crisis, apply crisis intervention principles and techniques, articulate the decision-making process taken to manage persons in crisis, incorporate community policing strategies into the community, illustrate problem-oriented policing strategies, evaluate other policing strategies, and apply principles of crime analysis and prevention. This course

consists of competencies and learning objectives from the following blocks of instruction from the Law Enforcement Standards Board 520-hour Law Enforcement Basic Training Curriculum. Community Resources - 2 hours, Cultural Competence - 8 hours, Crisis Management - 16 hours, and Policing Strategies - 16 hours.

Prerequisite: Admission to Criminal Justice-Law Enforcement program 105041

10504908 • 3 credits**Traffic Theory**

Learners identify local community resources, describe the role of an advocacy group in the criminal justice community, demonstrate cultural self-awareness, interpret state and federal laws related to discrimination and diversity, utilize appropriate skills for interacting effectively and professionally with persons from culturally diverse backgrounds and lifestyles, identify and implement personal strategies that take into account cultural differences, identify the types of situations and the characteristics of individuals that are likely to be encountered in crisis management situations, apply Wisconsin statutory requirements and general guidelines regarding emergency detentions and emergency protective placements of persons, identify key concepts and elements associated with law enforcement response to people in crisis, apply crisis intervention principles and techniques, articulate the decision-making process taken to manage persons in crisis, incorporate community policing strategies into the community, illustrate problem-oriented policing strategies, evaluate other policing strategies, and apply principles of crime analysis and prevention. This course consists of competencies and learning objectives from the following blocks of instruction from the Law Enforcement Standards Board 520-hour Law Enforcement Basic Training Curriculum. Community Resources - 2 hours, Cultural Competence - 8 hours, Crisis Management - 16 hours, and Policing Strategies - 16 hours.

Prerequisite: Admission to Criminal Justice-Law Enforcement program 105041

10504930 • 3 credits**Security Procedures**

Demonstrate the steps involved in receiving and releasing inmates and

COURSE DESCRIPTIONS

maintaining security. Develop the skills needed for mitigation of hostage-type situations. Topics include admission, release and search procedures, use of jail locking and surveillance equipment, and inmate health management procedures.

Prerequisite: Admission to Criminal Justice-Corrections program 105042

10504931 • 3 credits

Communication Skills

Apply correctional professional communication skills, including mediation, arbitration, and crisis intervention in a correctional setting.

Prerequisite: Admission to Criminal Justice-Corrections program 105042

10504932 • 3 credits

Adult Supervision

Practice supervision skills including positive behavior control, dispute resolution, and incident debriefing. Explore belief systems, social pressure, moral problems, decision making, and the consequences of decisions.

Prerequisite: Admission to Criminal Justice-Corrections program 105042

10504933 • 3 credits

Correctional Report Writing

Learn basic requirements, guidelines and skills for proper and professional documentation of activities, and incidents in a correctional setting.

Prerequisite: Admission to Criminal Justice-Corrections program 105042

10504934 • 3 credits

Correctional Law & Code

Learn key concepts and principles underlying legal requirements for jail operations and guidelines for protecting the legal rights of inmates. Key issues covered include introduction to the role of the jail officer, rules and standards governing correctional operations, structure of the court system, overview of civil liability, and key constitutional rights of inmates.

Prerequisite: Admission to Criminal Justice-Corrections program 105042

10504935 • 1 credit

Corrections Summary Assessment

Refine previously learned skills and abilities by applying them to various case studies and simulated situations.

Prerequisite: Admission to Criminal Justice-Corrections program 105042

10504936 • 3 credits

Emergency Procedures

Implement Principles of Subject Control

(POSC) in a correctional environment with an emphasis on team tactics. Learners apply current fire science concepts to jail fire prevention and response, including search and rescue, fire suppression, and use of safety procedures.

Prerequisite: Admission to Criminal Justice-Corrections program 105042

10504937 • 3 credits

Juvenile Supervision

Apply theories of adolescent development to develop strategies for effective supervision, protection, and discipline of juveniles.

Prerequisite: Admission to Criminal Justice-Corrections program 105042

509 MEDICAL ASSISTANT

10509102 • 3 credits

Human Body in Health and Disease

Focuses on diseases that are frequently first diagnosed and treated in the medical office setting. Students learn to recognize the causes, signs, and symptoms of diseases of the major body systems, as well as the diagnostic procedures, usual treatment, prognosis, and prevention of common diseases.

Corequisite: Medical Terminology 10501101

31509301 • 2 credits

Medical Assistant Administrative Procedures

Introduces medical assistant students to office management and business administration in the medical office. Students learn to schedule appointments, perform filing, record keeping, telephone and reception duties, communicate effectively with patients and other medical staff, and keep inventory of supplies. Students apply introductory medical coding skills and managed care terminology.

Prerequisite: Admission to Medical Assistant program 315091; Corequisite: Medical Assistant Clinical Procedures 1 31509304

31509303 • 2 credits

Medical Assistant Laboratory Procedures 1

Introduces medical assistant students to laboratory procedures commonly performed by medical assistants in a medical office setting. Students perform routine laboratory procedures commonly performed in the ambulatory care setting under the supervision of a

physician. Students follow laboratory safety requirements and federal regulations while performing specimen collection and processing, microbiology, and urinalysis testing.

Prerequisite: Admission to Medical Assistant program 315091

31509304 • 4 credits

Medical Assistant Clinical Procedures 1

Introduces medical assistant students to clinical procedures performed in the medical office setting. Students perform basic examining room skills including screening, vital signs, patient history, minor surgery, and patient preparation for routine and specialty exams in the ambulatory setting.

Prerequisite: Admission to Medical Assistant program 315091

31509305 • 2 credits

Medical Assistant Laboratory Procedures 2

Prepares students to perform laboratory procedures commonly performed by medical assistants in the ambulatory care setting under the supervision of a physician. Students perform phlebotomy, immunology, hematology, and chemistry laboratory procedures.

Prerequisite: Medical Assistant Laboratory Procedures 1

31509306 • 3 credits

Medical Assistant Clinical Procedures 2

Prepares medical assistant students to perform patient care skills in the medical office setting. Students perform clinical procedures, including administering medications, assisting with minor surgery, performing an electrocardiogram, assisting with respiratory testing, educating patients/community, and maintaining clinical equipment in an ambulatory setting.

Prerequisites: Medical Assistant Clinical Procedures 1 31509304, Medical Assistant Laboratory Procedures 1 31509303, Medical Terminology 10501101, and Human Body in Health and Disease 10509102

31509307 • 2 credits

Medical Office Insurance and Finance

Introduces medical assistant students to health insurance and finance in the medical office. Students perform bookkeeping procedures, apply managed care guidelines, and complete insurance claim forms. Students use medical coding and managed care terminology to perform insurance

related duties.

Prerequisite: Admission to Medical Assistant program 315091; Corequisite: Medical Assistant Clinical Procedures 2 31509306

31509310 • 3 credits

Medical Assistant Practicum

Requires medical assistant students to integrate and apply knowledge and skills from all previous medical assistant courses in actual patient settings. Learners perform medical assistant administrative, clinical, and laboratory duties under the supervision of trained mentors to effectively transition to the role of a medical assistant. There is no remuneration for students enrolled in this course.

Prerequisites: Medical Assistant Administrative Procedures 10509130; Human Body in Health and Disease 10509102; Medical Terminology 10501101; Medical Assistant Laboratory Procedures 1 31509303; Medical Assistant Clinical Procedures 1 31509304; and Microsoft Office Introduction 10103106. Corequisite: Medical Assistant Clinical Procedures 2 31509306; Medical Assistant Laboratory Procedures 2 31509305; Medical Office, Insurance, and Finance 10509131; Medical Law, Ethics, and Professionalism 10501109; and Written Communication 10801195

510 MEDICAL SUPPORT

10510111 • 2 credits

Emergency Care

Assists the learner to perform emergency measures expected of health personnel on the job and in everyday life. Emphasis is on analysis of emergency situations, diagnosis of emergency care needs, and decision making. Basic first aid skills and Healthcare Provider Cardio-pulmonary Resuscitation (CPR) certification are acquired as part of this course.

30510316 • 3 credits

N/A Medication Assistant

Course completers will follow standard practices of infection control, use drug references to access information, follow medication orders, document medication-related information, assist with storage and stocking of medications, report effects of drugs on residents, set up drugs for med pass, and administer medications.

512 SURGICAL TECHNOLOGIST

31512327 • 4 credits

ST: Introduction to Surgical Technology

Includes the basic clinical skills needed by the surgical technologist in the scrub role. Learners develop skills in disinfection, sterilization, identifying basic instrumentation, supplies, drains, catheters, dressings, and sponges. Includes practice experience in creating a sterile field, draping, passing instruments and supplies, performing counts, and preparing supplies.

Prerequisites: Admission to Surgical Technologist program 315121; Medical Terminology 10501101, Human Body in Health and Disease 10509102 or General Anatomy & Physiology 10806177

31512328 • 4 credits

ST: Fundamentals 1

Includes the basic clinical skills needed by the surgical technologist in the scrub role. Learners develop skills in disinfection, sterilization, identifying basic instrumentation, supplies, drains, catheters, dressings, and sponges. Includes practice experience in creating a sterile field, draping, passing instruments and supplies, performing counts, and preparing supplies.

Prerequisites: Admission to Surgical Technologist program 315121; Medical Terminology 10501101, Human Body in Health and Disease 10509102 or General Anatomy & Physiology 10806177

31512329 • 2 credits

ST: Fundamentals 2

Builds upon and reinforces the role of the surgical technologist as a member of the operating room team. Discusses care of the patient before, during, and after surgery with emphasis on surgical wounds, wound closure materials, and vital signs.

Prerequisites: Introduction to Surgical Technology 31512327 and Fundamentals 1 31512328

31512330 • 3 credits

ST: Clinical 1

Apply basic surgical theories, principles, and procedural techniques in the operating room. Students begin to function as team members under the guidance of the instructor and authorized clinical personnel. Surgical rotation case requirements are documented.

Prerequisites: Introduction to Surgical Technology 31512327, Fundamentals 1 31512328, and CPR certification

31512331 • 4 credits

ST: Surgical Procedures

Provides the foundational knowledge of surgical core and specialty procedures. Examines the pathophysiology diagnostic interventions and surgical interventions for a variety of surgical procedures. Incorporates integration of basic health sciences and technical knowledge to complete a plan of action for a surgical procedure.

Prerequisites: ST: Fundamentals 2 31512329 and Clinical 1 31512330

31512332 • 4 credits

ST: Clinical 2

Further experience in a clinical setting allows the student to continue to improve technical skills while accepting more responsibilities during surgical procedures. Surgical rotation case requirements are documented.

Prerequisites: ST: Clinical 1 31512330, ST: Fundamentals 2 31512329; Corequisite: ST: Surgical Procedures 31512331

31512334 • 4 credits

ST: Clinical 3

Enhances the student's technical experience and employee skills. Serves as a transition between student and employee. Application of advanced skills for the entry-level surgical technologist in the clinical setting. Surgical rotation case requirements are documented.

Prerequisite: ST: Clinical 2 31512332; Corequisite: ST: Surgical Procedures 31512331

513 LABORATORY ASSISTANT

10513101 • 3 credits

Basic Clinical Laboratory Techniques

Assists the learner to develop skills in performing basic medical lab procedures. Emphasizes specimen collection and processing, testing methods, quality control, and safety procedures. Correlates laboratory testing to human disease processes. Blood collection is a required part of this class.

Prerequisite: Admission to Phlebotomy Technician program 305131

10513116 • 3 credits

Principles of Phlebotomy

Prepares the learner to function as a member of the health care delivery team, performing the role of a phlebotomist.

COURSE DESCRIPTIONS

The phlebotomist generally works in a clinical laboratory under the supervision of the appropriate professional. The phlebotomist is responsible for collection procedures in both out-patient clinics and hospital in-patient settings for the purpose of laboratory analysis, including emergency and routine collection procedures from veins, skin puncture areas, and arteries on patients of all ages. Specimen integrity is emphasized as dependent on collection procedures, proper choice of equipment, and knowledge of patient variables. Positive patient identification protocol is an absolute requirement, which is stressed throughout. Proper transport and processing of specimens are also included. This theory course is primarily an online course and is designed for the student preparing to enter the laboratory/practicum experience of the phlebotomy program.

Prerequisite: Admission to Phlebotomy Technician program 305131 and completion of first semester courses ("C" or better)

10513117 • 5 credits

Phlebotomy Laboratory/Practicum

Prepares the learner to function as a staff member in a medical laboratory setting performing venipuncture and other specimen collection procedures, processing and handling of laboratory specimens, and performing related duties. There is no remuneration for students enrolled in this course.

Prerequisite: "C" or better in Principles of Phlebotomy 10513116

10513118 • 1 credit

Phlebotomy Refresher

Phlebotomy Refresher reviews all aspects of phlebotomy, including types of collections, supplies and equipment, national standards, safety, patient variety, and interpersonal skills. It is designed to review past knowledge, provide an update on current equipment and best practices. Phlebotomy Refresher is appropriate for healthcare providers, graduates of phlebotomy training programs, and current phlebotomists who need review.

Prerequisite: Previous related work experience or consent of instructor

515 RESPIRATORY CARE PRACTITIONER

10515100 • 1 credit

Student Success in Respiratory Therapist

Learners explore success strategies

for the Respiratory Therapist program, including time management, study skills, test preparation and test-taking skills, planning, and stress management.

Prerequisite: Admission to Respiratory Therapist program 105151; Corequisite: Respiratory Survey 10515111

10515101 • 1 credit

Respiratory Therapist Test Prep

Learners explore strategies for preparing for respiratory therapist professional examinations, including study skills, test preparation, and test-taking skills. The course includes a basic review of content related to the examinations.

Prerequisite: Respiratory Clinical 4 10515182

10515111 • 3 credits

Respiratory Survey

Examines the role of the respiratory therapist within the healthcare community. Reviews the ethical, legal, and regulatory principles that guide practice across diverse populations. Introductory patient assessment and critical-thinking processes used in the development of respiratory care plans are explored.

Prerequisite: Admission to Respiratory Therapy program 105151; Corequisite: Medical Terminology 10501101

10515112 • 2 credits

Respiratory Airway Management

Provides a comprehensive exploration of airway management concepts and skills.

Prerequisite: Respiratory Clinical 1 10515175

10515113 • 3 credits

Respiratory Life Support

Focuses on management of adult ventilatory support.

Prerequisites: Respiratory Therapeutics 2 10515172 and Respiratory Clinical 1 10515175; Corequisite: Respiratory Airway Management 10515112

10515138 • 2 credits

Respiratory Care Prac.-Independent Study

Designed for students who have demonstrated above average skills and knowledge in required core courses, and who wish to pursue specific topics beyond the depth required in formal courses. Enrollment requires the permission of the program director.

10515171 • 3 credits

Respiratory Therapeutics 1

Introduces the topics of medical gas administration and humidity and aerosol therapy. The learner will apply physics,

math, and patient assessment concepts to oxygen, aerosol, and humidity therapy.

Corequisites: Respiratory Survey 10515111, Medical Terminology 10501101, and General Anatomy & Physiology 10806177

10515172 • 3 credits

Respiratory Therapeutics 2

Introduces therapeutic procedures, including arterial puncture, bronchial hygiene, lung expansion therapy, and pulmonary rehabilitation.

Prerequisites: Respiratory Therapeutics 1 10515171, Respiratory Survey 10515111, and General Anatomy & Physiology 10806177

10515173 • 3 credits

Respiratory Pharmacology

Examines basic pharmacology principles, drug dosage, and calculations. Medications for inhalation including mucolytics, bronchodilators, and anti-inflammatories. Also includes cardiac drugs, anesthetic drugs, neuromuscular blockers, and antimicrobials.

Prerequisites: Respiratory Survey 10515111, Respiratory Therapeutics 1 10515171, and General Anatomy & Physiology 10806177

10515174 • 3 credits

Respiratory/Cardiac Physiology

Provides the student with an indepth knowledge of the structure and function of the respiratory and circulatory systems necessary to function as a competent respiratory therapist.

Prerequisites: General Anatomy & Physiology 10806177, Respiratory Survey 10515111, and Respiratory Therapeutics 1 10515171

10515175 • 2 credits

Respiratory Clinical 1

Introduces respiratory therapy practice in the hospital setting. Includes the development of skills such as basic therapeutics, patient assessment, medical record review, safety practices, patient interaction, and communication.

Prerequisites: Respiratory Survey 10515111, Respiratory Therapeutics 1 10515171, Respiratory Therapeutics 2 10515172, Respiratory Pharmacology 10515173, Respiratory/Cardiac Physiology 10515174, and Microbiology 10806197

10515176 • 3 credits

Respiratory Disease

Exploration of signs, symptoms, causes, progression, and treatment of obstructive, restrictive, and infectious

diseases or disorders of the body that affect the respiratory system.
Prerequisites: Respiratory Survey 10515111, General Anatomy & Physiology 10806177, and Microbiology 10806197

10515178 • 3 credits
Respiratory Clinical 2

Continued development of respiratory therapy clinical skills, including respiratory therapeutics. Focuses on monitoring, analyzing, and interpreting data to make appropriate modifications in patient care.
Prerequisite: Respiratory Clinical 1 10515175

10515179 • 3 credits
Respiratory Clinical 3

Continued development of respiratory therapy clinical skills, including respiratory therapeutics. Focuses on monitoring, analyzing, and interpreting data to make appropriate modifications in patient care.
Corequisite: Respiratory Clinical 2 10515178

10515180 • 2 credits
Respiratory Neo/Peds Care

Provides a comprehensive orientation to the field of neonatal and pediatric respiratory care to include fetal development, birth, neonatal physiology, pulmonary dynamics, abnormal cardiopulmonary conditions, diseases, and noninvasive and invasive therapeutic interventions.
Prerequisite: Respiratory Life Support 10515113 and Respiratory Clinical 3 10515179

10515181 • 3 credits
Respiratory/Cardio Diagnostics

Advanced invasive and noninvasive diagnostic cardiopulmonary procedures, including pulmonary function, hemodynamics, and rescue medicine.
Prerequisite: Respiratory Clinical 3 10515179

10515182 • 3 credits
Respiratory Clinical 4

Continued development of Respiratory Therapy clinical skills including respiratory therapeutics. Focuses on monitoring, analyzing and interpreting data to make appropriate modifications in patient care.
Prerequisites: Respiratory Clinical 3 10515179, Respiratory Life Support 10515113

10515183 • 3 credits

Respiratory Clinical 5
Focuses on the completion of respiratory therapy competencies and transition to employment.
Prerequisite: Respiratory Clinical 4 10515182

522 EDUCATIONAL SERVICES

10522107 • 3 credits

Overview of Special Education
Provides training in the classifications of special education, Pre-K to grade 12. Studies include causes of special needs and intervention strategies. Examines key development milestones and how they relate to physical, mental, emotional, and social development of children.

10522124 • 3 credits

Supporting Students with Disabilities
Course includes components of a special education program and strategies to manage the learning environment proactively to prevent behavior problems and promote inclusive learning for students with disabilities.

530 MEDICAL RECORDS

10530111 • 3 credits

Introduction to Health Records
Focuses on the purpose, format, content, use, confidentiality, and administrative issues of a patient's medical history and care. Students study the use of the patient's medical record as a basis for planning patient care, documenting communication between the healthcare provider and any other health professional contributing to the patient's care, assisting in protecting the legal interest of the patient and the health care providers responsible for the patient's care, and documenting the care and services provided to the patient. Emphasis is placed on accuracy, organization, and confidentiality. Students are introduced to EMR concepts.
Corequisite: Medical Terminology 10501101

10530122 • 3 credits

Electronic Health Records
Course introduces students to the electronic health record (EHR) as a technology-based representation

of healthcare data integration from a participating collection of varied systems for a single patient. Course covers emerging use of the electronic health record, an overview of EHR, applications, benefits and barriers to its use, vocabularies, principles of implementation, health information exchange, standards, privacy, security, information retrieval, digital libraries, and image management.

Prerequisites: Medical Terminology 10501101, General Anatomy & Physiology 10806177, and Intro to Health Records 10530111

10530125 • 2 credits

Organization of Healthcare
This course examines the organization and delivery of health care services, external standards, regulations, initiatives, payment and reimbursement systems, and healthcare providers and disciplines.

10530132 • 3 credits

Health Data Analysis
Focuses on the collection, computation, analysis, and presentation of healthcare statistical data. Data analytics, registries, vital statistics, mandatory reporting, and research are examined.
Prerequisites: Intro Health Records 10530111, Organization of Healthcare 10530125, and Electronic Health Records 10530122

10530143 • 1 credit

Clinical Experience
This course provides a blend of supervised clinical experience in health care facilities or virtual practice with some classroom activity. Students apply skills and knowledge gained from previous courses. Classroom activity covers discussion of clinical situations.
Prerequisite: Health Data Analysis and Performance Improvement 10530134; Corequisites: Private and Government Reimbursement 10530146 and Advanced Coding 10530148

10530144 • 3 credits

CPT Coding
Prepares learners to assign current procedural terminology (CPT) codes supported by medical documentation with entry-level proficiency. Students are familiar with and use standard coding references. Emphasis is placed on accuracy, CPT instructional notations, conventions, rules, and official coding guidelines when assigning CPT codes

COURSE DESCRIPTIONS

to case studies and actual medical record documentation. Application of modifiers to services and relationship to financial impact is also covered.

Prerequisites: Medical Terminology 10501101, General Anatomy & Physiology 10806177, and Intro to Health Records 10530111; Corequisite: Human Diseases for Health the Professions 10530182

10530146 • 3 credits **Private and Government Reimbursement**

Introduces students to the vocabulary of private or voluntary-based healthcare reimbursement. Students identify and compare the varieties of private healthcare insurance, including the advantages and disadvantages of each for the provider and for the policyholder. Learners assign Diagnosis Related Groups (DRGs), Ambulatory Payment Classifications (APCs), and Resource Utilization (RUGs) with entry-level proficiency using computerized encoding and grouping software. HIPAA guidelines are utilized throughout.

Prerequisites: ICD Diagnosis Coding 10530197, ICD Procedure Coding 10530199, and CPT Coding 10530144

10530148 • 2 credits **Advanced Coding**

This course builds on basic coding knowledge and skills by providing the student with coding of clinical case studies and actual medical records. The student will access, review, and code electronic medical records from the Academic EHR System. Students also perform data quality reviews to validate code assignment and compliance with reporting requirements.

Prerequisites: ICD Diagnosis Coding 10530197, ICD Procedure Coding 10530199, and CPT Coding 10530144; Corequisite: Private and Government Reimbursement 10530146

10530150 • 2 credits **Introduction to Health Information Technology**

Prepares learners to illustrate the flow of health information in various health care delivery systems and within the health information department and to retrieve data from health records. Professional ethics, confidentiality, and security of information are emphasized. This course also examines the content and structure

of an EHR (inpatient and ambulatory patient records), documentation practice guidelines, and the types of user devices utilized in an EHR system. Basic concepts of clinical decision support, standards relating to content of health records, data integrity, and EHR system security are included. Students have access to an electronic health record to apply concepts learned.

10530160 • 3 credits **Performance Improvement for Health Professions**

Examines healthcare performance improvement systems. Includes performance assessment, measurement, and improvement, as well as patient safety, risk management, utilization management, and medical staff credentialing.

Prerequisites: Intro to Health Records 10530111, Organization of Healthcare 10530125, and Electronic Health Records 10530122

10530161 • 2 credits **Legal Aspects of HIIM**

Focuses on regulations for the content, access, disclosure, privacy, confidentiality, security, retention, and destruction of health information. Includes an overview of the U.S. legal system.

Corequisite: Intro to Health Records 10530111

10530162 • 3 credits **HIIM Clinical Experience**

This course provides a blend of supervised clinical experience in health care facilities with some online work. Students apply skills and knowledge gained from previous courses.

Prerequisites: Organization of Healthcare 10530125, Intro to Health Records 10530111, Electronic Health Record 10530122, CPT Coding 10530144, ICD Diagnosis Coding 10530197, and ICD Procedure Coding 10530199; Corequisites: Private & Government Reimbursement 10530146 and Advanced Coding 10530148

10530182 • 3 credits **Human Disease for the Health Professions**

This course focuses on the common diseases of each body system as encountered in all types of healthcare settings by health information

professionals. Emphasis is placed on understanding the etiology (causes), signs and symptoms, diagnostic tests, and treatment (including pharmacologic) of each disease.

Prerequisites: Medical Terminology 10501101 and General Anatomy & Physiology 10806177

10530197 • 3 credits **ICD Diagnosis Coding**

Prepares students to assign ICD diagnosis codes supported by medical documentation with entry-level proficiency. Students apply instructional notations, conventions, rules, and official coding guidelines when assigning ICD diagnosis codes to case studies and actual medical record documentation.

Prerequisites: Medical Terminology 10501101, Intro to Health Records 10530111, and General Anatomy & Physiology 10806177; Corequisite: Human Disease for the Health Professions 10530182

10530199 • 2 credits **ICD Procedure Coding**

Prepares students to assign ICD procedure codes supported by medical documentation with entry-level proficiency. Students apply instructional notations, conventions, rules, and official coding guidelines when assigning ICD procedure codes to case studies and actual medical record documentation.

Prerequisites: Medical Terminology 10501101, Intro to Health Records 10530111, General Anatomy & Physiology 10806177, and Human Disease for the Health Professions 10530182

531 EMERGENCY MEDICAL SERVICES

10531100 • 2 credits

Wis First Responder-Basic W/CPR

This 58-hour course uses the U.S. Department of Transportation National Highway Traffic Safety Administration (NHTSA) National Standard Curriculum with approved Wisconsin additions, to provide training in all aspects of emergency medical care required at the scene of an accident or sudden illness. It includes the American Heart Association Health Care Provider Basic Life Support CPR course. The National Registry of EMT's-Registered First Responder Exam is available as an option after successful completion of this course.

10531168 • 5 credits

EMT Basic

Based upon the State of Wisconsin/ U.S. Department of Transportation/ National Highway Transportation Safety Administration curriculum, this 185-hour program includes classroom instruction, lectures, discussion, demonstrations, skill practice, and an additional patient care experience, which requires a minimum of ten patient care contacts. *Prerequisite: Admission to Emergency Medical Technician program 305313*

10531169 • 4 credits

EMS Career Fundamentals

This course is designed to introduce the student to a variety of topics that are relevant to a successful career in EMS. The course content focuses on employment readiness, organizational structure, leadership concepts, community involvement, and application of EMS research findings.

10531911 • 2 credits

EMS Fundamental

This course provides the paramedic student with comprehensive knowledge of EMS systems, safety, well-being, legal issues, and ethical issues, with the intended outcome of improving the health of EMS personnel, patients, and the community. The students obtain fundamental knowledge of public health principles and epidemiology as related to public health emergencies, health promotion, and illness/injury prevention. Introducing students to comprehensive

anatomical and medical terminology and abbreviations fosters the development of effective written and oral communications with colleagues and other health care professionals. *Prerequisites: Admission to Paramedic Technician 105311 or EMT-Paramedic 315311 programs and Wisconsin Emergency Medical Technician (or higher) license or a current National Registry of EMTs certification at the Emergency Medical Technician level or higher*

10531912 • 4 credits

Paramedic Medical Principles

This course addresses the complex depth of anatomy, physiology, and pathophysiology of major human systems while also introducing paramedic students to the topics of shock, immunology, and bleeding. *Prerequisite: Admission to Paramedic Technician 105311 or EMT-Paramedic 315311 programs*

10531913 • 3 credits

Patient Assessment Principles

This course teaches the paramedic student to integrate scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression. By utilizing a structured and organized assessment process with knowledge of anatomy, physiology, pathophysiology, life span development, and changes that occur to the human body with time. Students learn to develop a list of differential diagnoses through clinical reasoning, along with the ability to modify the assessment as necessary to formulate a treatment plan for their patients. *Prerequisite: Admission to Paramedic Technician 105311 or EMT-Paramedic 315311 programs*

10531914 • 3 credits

Prehospital Pharmacology

This course provides the paramedic student with the comprehensive knowledge of pharmacology required to formulate and administer a pharmacological treatment plan intended to mitigate emergencies and improve the overall health of the patient. *Prerequisite: Admission to Paramedic Technician 105311 or EMT-Paramedic 315311 programs*

10531915 • 2 credits

Paramedic Respiratory Management

This course teaches the paramedic student to integrate complex knowledge of anatomy, physiology, and pathophysiology into the assessment to develop and implement a treatment plan with the goal of assuring a patient airway, adequate mechanical ventilation, and respiration for patients of all ages. Specific knowledge pertaining to the respiratory system is also provided to ensure the student is prepared to formulate a field impression and implement a comprehensive treatment plan for a patient with a respiratory complaint. *Prerequisite: Admission to Paramedic Technician 105311 or EMT-Paramedic 315311 programs*

10531916 • 4 credits

Paramedic Cardiology

This course teaches the paramedic student to integrate assessment findings with principles of cardiovascular anatomy, physiology, epidemiology, and pathophysiology to formulate a field impression and implement a comprehensive treatment plan for a patient with a cardiovascular complaint. *Prerequisite: Admission to Paramedic Technician 105311 or EMT-Paramedic 315311 programs*

10531917 • 3 credits

Paramedic Clinical/Field 1

This course provides the student with the opportunity to enhance his or her learning through the practice of paramedicine in field and health care environment experiences with actual patients under the supervision of instructors or approved preceptors. Students may also have the opportunity to participate in formal high-fidelity human patient simulator experiences as a part of this course. *Prerequisites: Admission to Paramedic Technician 105311 or EMT-Paramedic 315311 programs, Advanced Prehospital Pharmacology 10531914, and a current Wisconsin license at the Emergency Medical Technician (or higher) level*

10531918 • 1 credit

Advanced Resuscitation

By teaching Advanced Cardiac Life Support (ACLS) and Pediatric Advanced Life Support (PALS) methodologies and protocols, this course prepares the

COURSE DESCRIPTIONS

paramedic student in the integration of comprehensive knowledge of causes and pathophysiology into the management of shock, respiratory failure, respiratory arrest, cardiac arrest, and peri-arrest states with an emphasis on early intervention to prevent respiratory and/or cardiac arrest if possible.

Prerequisite: Admission to Paramedic Technician 105311 or EMT-Paramedic 315311 programs

10531919 • 4 credits

Paramedic Medical Emergencies

This course teaches the paramedic student to integrate assessment findings with principles of anatomy, physiology, epidemiology, and pathophysiology to formulate a field impression and implement a comprehensive treatment plan for a patient with a medical complaint.

Prerequisite: Admission to Paramedic Technician 105311 or EMT-Paramedic 315311 programs

10531920 • 3 credits

Paramedic Trauma

This course teaches the paramedic student to integrate assessment findings with principles of anatomy, physiology, epidemiology, and pathophysiology to formulate a field impression and implement a comprehensive treatment plan for an acutely injured patient.

Prerequisite: Admission to Paramedic Technician 105311 or EMT-Paramedic 315311 programs

10531921 • 3 credits

Special Patient Populations

This course teaches the paramedic student to integrate assessment findings with principles of anatomy, physiology, epidemiology, and pathophysiology to formulate a field impression and implement a comprehensive treatment plan for patients with special needs. Gynecological emergencies, along with special considerations in trauma, are also included within this course.

Prerequisite: Admission to Paramedic Technician 105311 or EMT-Paramedic 315311 programs

10531922 • 1 credit

EMS Operations

This course provides the paramedic student with the knowledge of operational roles and responsibilities to ensure patient, public, and EMS personnel safety.

Prerequisite: Admission to Paramedic Technician 105311 or EMT-Paramedic 315311 programs

10531923 • 1 credit

Paramedic Capstone

This course provides the student with a final opportunity to incorporate their cognitive knowledge and psychomotor skills through labs and scenario-based practice and evaluations prior to taking the National Registry written and practical examinations. Technical skills attainment (TSA) for each student will be compiled and/or documented within this course as required by the DHS-approved paramedic curriculum.

Prerequisite: Admission to Paramedic Technician 105311 or EMT-Paramedic 315311 programs

10531924 • 4 credits

Paramedic Clinical/Field 2

This course provides the student with the opportunity to enhance his or her learning through the practice of paramedicine in field and health care environment experiences with actual patients under the supervision of instructors or approved preceptors. Students may also have the opportunity to participate in formal high-fidelity human patient simulator experiences as a part of this course. Successful completion of this course requires the student to meet all clinical and field competency requirements at the paramedic level as defined by WI DHS EMS.

Prerequisite: Admission to Paramedic Technician 105311 or EMT-Paramedic 315311 programs

30531309 • 1 credit

Paramedic Refresher

Based on the U.S. Department of Transportation Emergency Medical Technician-Paramedic National Standard curriculum, this 48-hour course is a refresher for currently licensed paramedics. This course provides an opportunity and forum to review the core knowledge as it relates to

prehospital emergency medical care of the infant, child, adolescent, adult, and geriatric patient.

30531310 • 4 credits

EMT-Intermediate Technician

Based on the Wisconsin Bureau of Local Health Support and Emergency Medical Services 2001 curriculum, this 72-hour program provides the student with the knowledge and skills required to enhance their ability to think critically, initiate intravenous access, and administer specific medications. The student learns how to integrate problem-specific assessments for patients experiencing cardiovascular, diabetic, and/or poisoning/overdose emergencies.

Prerequisite: EMT-Basic 10531168

30531311 • 3 credits

EMT Intermediate I

The EMT-Intermediate I course is part one of the EMT-Intermediate program. This course will focus on the roles and responsibilities of the EMT Intermediate: illness and injury prevention; medical, legal, and ethical issues. The course will build upon the student's previous knowledge in pathophysiology, pharmacology, venous access and medication administration, basic and advanced airway management, patient assessment, and pulmonary and cardiac emergencies. Students will take the American Heart Association's Advanced Cardiac Life Support Certification course.

Prerequisite: NREMT-Basic Certification or Wisconsin EMT-Intermediate Technician licensure. Students are required to hold Wisconsin licensure at either the EMT-Basic or EMT Intermediate Technician Level prior to beginning clinical rotations. Corequisite: EMT Intermediate Clinical 30531313

30531312 • 3 credits

EMT Intermediate II

This course is part two of the EMT-Intermediate program. This course focuses on the management of medical and environmental injuries, infectious and communicable disease, and behavioral and psychiatric disorders. Students acquire knowledge and skills in managing obstetrical and neonatal emergencies, and interacting and assessing the pediatric and

geriatric patient, as well as patients who are victims of abuse and/or assault. Additional topics include acute intervention in home care and assessment based management.
Prerequisite: EMT-Intermediate I 30531311; Corequisite: EMT Intermediate Clinical 30531313

30531313 • 2 credits
EMT Intermediate Clinical

The student is required to complete 110 hours of documented practical skills application and observation at the beginning EMT-Intermediate level. The student will perform required skill competencies at a variety of clinical and field internship sites under the direct supervision of an approved preceptor.
Corequisites: EMT- Intermediate I 30531311; EMT Intermediate II 30531312

30531315 • 3 credits
Critical Care Transport-Paramedic

The Critical Care Transport-Paramedic course is designed to prepare Wisconsin paramedics to function as critical care transport team members. Critically ill or injured patients requiring transport between facilities need a different level of care from hospital or emergency field patients. This course provides students with knowledge of the special assessment techniques and needs of the critical care patient, the ability to operate and troubleshoot critical care transport equipment, and the skills necessary to maintain the stability of the critical care patient during transport. This course follows the Wisconsin curriculum for license endorsement as a critical care paramedic.
Prerequisites: Licensed Paramedic or RN and a BLS and an ACLS card

30531317 • 1 credit
Emergency Response for Protective Services

Learn how to perform an initial medical assessment for injury or medical condition, how to provide immediate treatment for a variety of injuries and conditions, and how to perform CPR and use an automatic emergency defibrillator.

30531318 • 4 credits
Advanced EMT

Program graduates demonstrate competency in the initiation of intravenous therapy, administration of select medications as approved by DHS and local medical directors via intravenous, intramuscular, subcutaneous, sublingual, and inhalation routes. Potential occupations include emergency medical technician, ambulance attendant, firefighter, and ER-technician.
Prerequisite: Wisconsin Emergency Medical Technician Licensure

533 SENSORY & READING IMPAIRED SERVICES

10533160 • 2 credits
Sign Language for Service & Health

Introduces the learner to basic sign language. Enables learners to understand and participate in fundamental conversations with persons with communication impairments.

10533165 • 2 credits
Sign Language II for Service and Health

This course expands the learner's knowledge of grammatical features in everyday communication. It develops conversational skills incorporating culturally appropriate behaviors.
Prerequisite: Sign Language for Service & Health 10533160 or equivalent

534 CENTRAL SERVICES TECH

305343 • 5 credits
Central Service

This course guides the student in achieving the knowledge and skills necessary to function as a central service technician. Students learn to clean, sterilize, and assemble equipment, supplies, and instruments, and perform recordkeeping procedures including orders, charges, and inventory.
Prerequisite: Admission to Central Service Technician program 305341

543 NURSING

10543100 • 2 credits
Becoming a Critical Thinker in Nursing

This course introduces the learner to the concept of critical thinking. By understanding the fundamentals and utilizing knowledge, facts, and data, the student develops effective strategies to solve problems. The student is then able to transfer these critical thinking skills to the clinical setting to make appropriate clinical judgments.
Corequisite: Nursing Fundamentals 10543101 and Nursing Pharmacology 10543103, or must have previously completed these two classes

10543101 • 2 credits
Nursing Fundamentals

This course focuses on basic nursing concepts to provide evidenced-based care to diverse patient populations across the lifespan. Current and historical issues impacting nursing are explored within the scope of nursing practice. The nursing process is introduced as a framework for organizing the care of patients.
Prerequisite: Successful completion of all Step 3 Nursing program required courses and space availability

10543102 • 3 credits
Nursing Skills

This course focuses on development of evidence-based clinical skills and physical assessment across the lifespan. Content includes mathematical calculations and conversions related to clinical skills. In addition, the course includes techniques related to obtaining a health history and basic physical assessment skills using a body systems approach.
Prerequisite: Successful completion of all Step 3 Nursing program required courses and space availability

10543103 • 2 credits
Nursing Pharmacology

Introduces the principles of pharmacology, including drug classifications and their effects on the body. Emphasis is on the use of the components of the nursing process when administering medications.
Prerequisite: Successful completion of all Step 3 Nursing program required courses and space availability

COURSE DESCRIPTIONS

10543104 • 2 credits

Nursing: Intro to Clinical Practice

This introductory clinical course emphasizes basic nursing skills and application of the nursing process in meeting the needs of diverse clients across the lifespan. Emphasis is placed on performing basic nursing skills, the formation of nurse-client relationships, communication, data collection, documentation, and medication administration.

Prerequisite: Successful completion of all Step 3 Nursing program required courses and space availability.

Corequisites: Nursing Fundamentals 10543101, Nursing Skills 10543102, and Nursing Pharmacology 10543103

10543105 • 3 credits

Nursing Health Alterations

This course elaborates upon the basic concepts of health and illness as presented in Nursing Fundamentals. It applies theories of nursing in the care of patients through the lifespan, utilizing problem solving and critical thinking. This course provides an opportunity to study conditions affecting different body systems and apply evidence-based nursing interventions. It also introduces concepts of leadership and management.

Prerequisites: Nursing Fundamentals 10543101, Nursing Skills 10543102, Nursing Pharmacology 10543103, and Intro to Clinical 10543104

10543106 • 3 credits

Nursing Health Promotion

This course focuses on topics related to health promotion for individuals and families throughout the lifespan. The course covers nursing care of the developing family, which includes reproductive issues, pregnancy, labor and delivery, post-partum, the newborn, and the child. Recognizing the spectrum of healthy families, students cover discern patterns associated with adaptive and maladaptive behaviors applying mental health principles. An emphasis is placed on teaching and supporting healthy lifestyles choices for individuals of all ages. Nutrition, exercise, stress management, empowerment, and risk reduction practices are highlighted. Study of the family will cover dynamics, functions, discipline styles, and stages of

development.

Prerequisites: Nursing Fundamentals 10543101, Nursing Skills 10543102, Nursing Pharmacology 10543103, Intro to Clinical Practice 10543104, and Developmental Psychology 10809188

10543107 • 2 credits

Nursing: Clinical Care Across the Lifespan

Applies nursing concepts and therapeutic interventions to clients across the lifespan. It also provides an introduction to concepts of teaching and learning. Extending care to include the family is emphasized.

Prerequisites: Nursing Fundamentals 10543101, Nursing Skills 10543102, Nursing Pharmacology 10543103, and Intro to Clinical Practice 10543104

10543108 • 2 credits

Nursing: Intro to Clinical Care Management

Applies nursing concepts and therapeutic nursing interventions to groups of clients across the lifespan. It also provides an introduction to leadership, management, and team building.

Prerequisites: Nursing Fundamentals 10543101, Nursing Skills 10543102, Nursing Pharmacology 10543103, and Intro to Clinical Practice 10543104

10543109 • 3 credits

Nursing: Complex Health Alterations 1

Complex Health Alterations I prepares the learner to provide and evaluate care for patients across the lifespan with alterations in cardiovascular, respiratory, endocrine, and hematologic systems, as well as patients with fluid/electrolyte and acid-base imbalance and alterations in comfort.

Prerequisites: Health Alterations 10543105, Nursing Health Promotion 10543106, Clinical Care Across the Lifespan 10543107, and Intro to Clinical Care Management 10543108; Corequisite: Microbiology 10806197

10543110 • 2 credits

Nursing: Mental Health and Community Concepts

This course covers topics related to the delivery of community and mental health care. Specific health needs of individuals, families, and groups

is addressed across the lifespan.

Attention is given to diverse and at-risk populations. Mental health concepts concentrate on adaptive/maladaptive behaviors and specific mental health disorders. Community resources are examined in relation to specific types of support offered to racial, ethnic, economically-diverse individuals and groups.

Prerequisites: Health Alterations 10543105, Nursing Health Promotion 10543106, Clinical Care Across the Lifespan 10543107, and Intro to Clinical Care Management 10543108

10543111 • 3 credits

Nursing: Intermediate Clinical Practice

This intermediate level clinical course develops the RN role when working with clients with complex health care needs. A focus of the course is developing skills needed for managing multiple clients and priorities. Using the nursing process, students gain experience in adapting nursing practice to meet the needs of clients with diverse needs and backgrounds.

Prerequisites: Health Alterations 10543105, Nursing Health Promotion 10543106, Clinical Care Across the Lifespan 10543107, and Intro to Clinical Care Management 10543108

10543112 • 1 credit

Nursing Advanced Skills

This course focuses on the development of advanced clinical skills across the lifespan. Content includes advanced intravenous skills, blood product administration, chest tube systems, basic electrocardiogram interpretation, and nasogastric/feeding tube insertion.

Prerequisites: Health Alterations 10543105, Nursing Health Promotion 10543106, Clinical Care Across the Lifespan 10543107, and Intro to Clinical Care Management 10543108

10543113 • 3 credits

Nursing: Complex Health Alterations 2

Complex Health Alterations 2 prepares the learner to provide and evaluate care for patients across the lifespan with alterations in the immune, neuro-sensory, musculoskeletal, gastrointestinal, hepatobiliary, renal/urinary, reproductive systems and shock, burns, and trauma. The learner will also focus on management of care

for patients with high-risk perinatal conditions and high-risk newborns.
Prerequisites: Complex Health Alterations 1 10543109, Mental Health & Community Concepts 10543110, Intermediate Clinical Practice 10543111, and Advanced Skills 10543112

10543114 • 2 credits
Nursing: Management and Professional Concepts

This course covers nursing management and professional issues related to the role of the registered nurse. Emphasis is placed on preparing for practice as a registered nurse.

Prerequisites: Complex Health Alterations 1 10543109, Mental Health & Community Concepts 10543110, Intermediate Clinical Practice 10543111, and Advanced Skills 10543112

10543115 • 3 credits
Nursing: Advanced Clinical Practice

This advanced clinical course requires the student to integrate concepts from all previous courses in the management of groups of clients facing complex health alterations. Students have the opportunity to further develop critical thinking skills using the nursing process in making clinical decisions. Continuity of care through interdisciplinary collaboration is emphasized.

Prerequisites: Complex Health Alterations 1 10543109, Mental Health & Community Concepts 10543110, Intermediate Clinical Practice 10543111, and Advanced Skills 10543112

10543116 • 2 credits
Nursing: Clinical Transition

This clinical experience integrates all knowledge learned in the previous courses in transitioning to the role of the graduate nurse. The course promotes relatively independent clinical decisions, delegation, and works collaboratively with others to achieve client and organizational outcomes. Continued professional development is fostered.

Corequisite: Advanced Clinical Practice 10543115

10543120 • 2 credits
Basic Nursing Skills

This course introduces the student to basic nursing skills. The role of the nurse in relation to infection control, hygiene,

vital signs, safety, body mechanics, and meeting client's personal needs is the focus. PLEASE NOTE: Completion of this course will meet the prerequisite to be accepted into the Nursing program. However, completion of this course will not allow the student to work as a CNA.
Prerequisite: Student must have a health care clinical background to qualify for this class.

10543121 • 2 credits
Basic Skills Refresher

This course introduces the student to basic nursing skills. The role of the nurse in relation to infection control, hygiene, vital signs, safety, body mechanics, and meeting client's personal needs is the focus. PLEASE NOTE: Completion of this course will meet the prerequisite to be accepted into the Nursing program. However, completion of this course will not allow the student to work as a CNA.
Prerequisite: Basic Nursing Skills 10543120 or Nursing Assistant 30543300

10543123 • 2 credits
Medical Nursing Refresher Theory

This course guides the student through the common medical diagnoses, highlighting the typical signs and symptoms and the usual collaborative treatment. The course identifies the most frequent complications that the nurse should be watching for in medical patients.
Prerequisite: Nineteen Nursing or Practical Nursing program core credits, or Registered Nurse or Licensed Practical Nurse license

10543124 • 2 credits
Nursing Skills Refresher

This course reviews physical assessment knowledge/skills, the use of the nursing process utilizing care plans, and common psychomotor nursing skills. This course is primarily skills lab based.
Prerequisite: Medical Nursing Refresher Theory 10543123

10543126 • 2 credits
Precepted Clinical Nursing Refresher

This course provides the student the opportunity for transition to the professional nursing role through an internship experience. Selected area health care agencies provide on the job training with experienced staff.

Prerequisites: Medical Nursing Refresher Theory 10543123 and Nursing Skills Refresher 10543124

10543127 • 1 credit
Review of Psychiatric Nursing

This course assists the student to review the basic aspects of psychiatric nursing, and explore more complex issues within this area of nursing. This course is designed for students to become more familiar with psychiatric nursing. *Prerequisite: Nineteen Nursing or Practical Nursing core credits, or Registered Nurse or Licensed Practical Nurse license*

10543128 • 1 credit
Review of Obstetrical Nursing

This course assists the student to review the basic aspects of obstetrical nursing and to explore more complex issues within this area of nursing. This course is designed for students to become more familiar with obstetrical nursing.
Prerequisite: Nineteen Nursing or Practical Nursing core credits, or Registered Nurse or Licensed Practical Nurse license

10543129 • 2 credits
Transition from LPN to AND

This course introduces Licensed Practical Nurses (LPNs) to the Associate Degree Nursing (ADN) program. Strategies for success, role transition, the nursing process assessment of patients, and advanced technical skills are discussed.

10543131 • 2 credits
Intro to Critical Care Nursing

This course introduces students to the nursing responsibilities associated with the critical care environment. Students discuss hemodynamic monitoring such as arterial lines, pulmonary artery lines and central venous pressure lines, and how values can be affected by physiological changes. Students investigate modes of ventilatory assistance with associated blood gases, as well as cardiac dysrhythmias and resuscitation roles. Students also examine stressors upon patients, families, and staff nurses as a result of the critical care environment.
Prerequisite: Advanced Anatomy & Physiology 10806179

COURSE DESCRIPTIONS

10543132 • 2 credits

Caring for People at the End of Life

This course covers topics relevant to nursing care at the end of life, including mental health, spiritual issues, and symptom management such as pain control and other comfort measures. Additional topics include communication strategies, bereavement techniques, and introduction to ethical decision making.

10543133 • 2 credits

Intro to Gerontology

This course gives students an opportunity to explore the area of gerontology, which focuses on the care of older adults. The specialized health needs of older adults involve areas like living with chronic disease, promoting mobility, encouraging healthy behaviors, and problems associated with treatments for disease such as chronic pain and multiple medications. Attention is given to managing the losses associated with aging and the importance of family and social support systems. Legal and ethical issues related to the care of the older adult are explored.

10543135 • 2 credits

Nursing Leadership, Ethics, and Action

This course introduces students to leadership concepts such as communication, delegation, collaboration, and professional behavior. Also discussed are ethical responsibilities such as honesty, integrity, informed consent, the underserved, human rights, violence toward others, resource allocation, impaired professionals, reporting errors, and role delineation.

10543136 • 1 credit

Improving Test Taking Skills in Nursing

This course focuses on strategies to help a student improve written test taking skills in nursing. The focus of this course is written multiple choice tests. Topics discussed are what to do before a test, such as preparing and organizing notes, studying, and creating a personal plan for success. Also discussed is information to use during a test, such as tips to control test anxiety, the different personalities of test takers, and tips to read questions more carefully and eliminate wrong options.

Prerequisites: Admission to Nursing 105431 or Practical Nursing programs 315431 and co-enrolled in a 543 nursing core course

10543137 • 2 credits

Women's Health Issues

Identification of health concerns for women focusing on physical changes, emotional and mental health needs, and commonly occurring health problems across the lifespan. Students recognize differences in women's health needs among age, socioeconomic, and cultural perspectives.

10543139 • 2 credits

Introduction to Dementia

This course introduces the student to the different types of dementia, changes in physiology, and signs and symptoms associated with the onset of dementia. The course focuses on the principles of communicating and providing care to individuals with memory loss and confusion while learning the best practices for dealing with behavior changes, challenges with the activities of daily living, and strategies to assist caregivers.

10543150 • 2 credits

LPN Refresher Theory

This course reviews common medical diagnoses highlighting the typical signs and symptoms, the usual treatment medications, and complications. The course also covers the nursing process, infection control, recent trends in nursing techniques and responsibilities, the aging population, communication, documentation and reporting, and the scope of practice, including delegation and supervision.

Prerequisite: Nineteen Nursing or Practical Nursing core credits or Licensed Practical Nurse license

10543151 • 2 credits

LPN Skills Refresher

This course reviews physical assessment skills aspects of safe medication administration, and a variety of psychomotor skills commonly performed by the LPN. The course is primarily skills lab based.

Prerequisite: Nineteen Nursing or Practical Nursing core credits or Licensed Practical Nurse license

10543152 • 2 credits

LPN Precepted Clinical Nursing Refresher

This course provides the LPN refresher student with the opportunity for "on-the-job" training. The student works directly with an LPN preceptor in a long-term care setting.

10543155 • 1 credit

Nursing Preparation for NCLEX

This course assists the student in identifying and analyzing his/her individual strengths and weaknesses in beginning nursing knowledge in an effort to better prepare the graduate to pass NCLEX. The student and the instructor work together to identify problem areas and devise strategies to better utilize study time prior to attempting NCLEX.

10543163 • 2 credits

Development of Disease Processes

This course helps the student to recognize physiological changes leading to illness and disease. This course enhances the knowledge and understanding of cellular function so the student can correlate pathophysiology to clinical manifestations and the related diagnostic tests and treatment.

Prerequisite: General Anatomy & Physiology 1086177

10543170 • 2 credits

Nursing: Introduction to the Operating Room

This course provides the RN or the advanced practice nurse practitioner with the foundational knowledge of infection control, asepsis, transport devices, basic instrumentation, sterilization/disinfection techniques, and equipment and supplies, along with basic information about drains, catheters, dressings, and sponges.

Prerequisite: Must be a registered nurse or completed at least the second semester of the ADN program to be eligible for this course

10543171 • 3 credits

Introduction to the RN First Assistant Role

The Registered Nurse First Assistant (RNFA) is a registered nurse who works in collaboration with the surgeon and the health care team members to achieve optimal patient care. This course builds upon the education

of the registered nurse to learn the knowledge, judgment, and attitudes that include preoperative patient management, intraoperative surgical first assisting, and postoperative patient management. While independent nursing skills and judgment are essential to this practice, the intraoperative activities of the RNFA are interdependent and directed by the surgeon.

Prerequisite: Must be an RN and complete Intro to the Operating Room 10543170 or must be a registered nurse with previous operating room experience

10543172 • 2 credits
Registered Nurse First Assistant Precepted Clinical

This course is an extension of the Introduction to the RN First Assistant (RNFA) course. This course provides the onsite clinical experience expanding on the role of the RNFA in preoperative patient management, intraoperative surgical first assisting, and postoperative patient management.

10543173 • 2 credits
Nursing Assistant-Acute Care

This two-credit course enhances the existing skillset of certified nursing assistants (CNAs) by providing proficiencies in professionalism, communication, patient safety, infection control, and wellness promotion necessary for work in an acute care setting. Increased employment opportunities in acute care settings and a smoother transition into the Practical Nursing and Associate Degree Nursing programs may also result. The 72-hour course, offered in a hybrid format to accommodate employment schedules, includes 36 hours of skills laboratory, nine hours of e-learning content theory lecture labs, and 27 hours of clinical at a local acute care facility.

Prerequisites: Completion of a state-approved nursing assistant course and certification as a nursing assistant in good standing on the nurse aide registry

30543300 • 3 credits
Nursing Assistant

The Nursing Assistant program prepares students for employment as nursing assistants. The program also

prepares Nursing Assistant students with some of the skills needed for the first semester of the Nursing program. During the 120-hour course, students are required to demonstrate the following skills under the supervision of a licensed nurse: communication, basic nursing assistant and personal care skills, attention to client's rights, and care of clients with dementia. The program is recognized by the Wisconsin Department of Health Services as a nurse-aide training program. Upon successful completion of the program, the student is eligible to take the Wisconsin Nursing Assistant competency evaluation for employment in nursing homes, hospitals, home health agencies, hospices, CBRFs, assisted living centers, and homes for the developmentally disabled.
Prerequisite: Admission to Nursing Assistant program 305431 and Nursing Assistant Informational Session

544 GERONTOLOGY

10544102 • 3 credits
Physical Aspects of Aging

Study of normal and pathological changes occurring in the aging human body with special emphasis on age-related chronic disease. Includes analysis of biological theories of aging and cultural and ethnic influence on aging pathologies.

10544103 • 3 credits
Healthy Aging

Overview of practices to promote healthy aging. This course addresses nutrition, physical activity, and prevention practices, as well as medications commonly prescribed for the older adult. Emphasis is on practices to address current aging trends.

10544107 • 3 credits
Legal & Financial Issues of Aging

Covers concepts and structures involved in the legal and financial realm of gerontology, including Power of Attorney for Health Care/Finance, guardianships, trusts, reallocation of assets, spending down, Medicare/Medicaid benefits, supplemental insurance, Social Security, financial exploitation, and relevant governmental policy. Learners are able to apply

knowledge by learning advocacy techniques to benefit senior populations on a community, local, and federal level.

10544108 • 3 credits
Developing the Gerontology Professional

Exploration of effective communication styles and interview techniques for developing rapport and relationships with aging populations. Other topics included ethics and boundaries, self-determination, case management, documentation skills, research, and grant funding.

10544109 • 3 credits
Programs & Services in Aging

Students learn resources available in the community, eligibility criteria, and how to access and coordinate services for seniors. Supplementing social networking and enhancing mental health functioning for the aging population are also discussed. Students explore different career fields within gerontology.

10544111 • 2 credits
Gerontology Internship

Students integrate concepts from completed coursework through supervised work experiences in appropriate settings.
Prerequisites: Intro to Social Gerontology 10809130, Healthy Aging 10544103, Physical Aspects of Aging 10544102, Intro to Dementia 10543139, Legal & Financial Issues of Aging 10544107, and Developing the Gerontology Professional 10544108; Corequisites: Programs & Services in Aging 10544109 and Generations & Diversity in Aging 10809132

546 HEALTH AND WELLNESS

10546100 • 3 credits
Essential Concepts for Health and Wellness

An introductory course including basic health and wellness promotion principles at the individual level; basic principles include physical, mental, and spiritual. Students explore a holistic view of health and wellness concepts covering healthy lifestyle choices, managing stress, individual wellness perspective and how economics can

COURSE DESCRIPTIONS

positively and negatively impact the health and wellness of an individual.

10546101 • 3 credits

Nutrition for Healthy Living

Students learn concepts of healthy eating to facilitate the journey of good health across the lifespan. Healthy eating concepts focus on individual decision making and behavior change with sustainable interventions rooted in evidenced-based practice. Students investigate nutrition myth versus fact and explore how policy and environment impact nutritional choice.

10546102 • 3 credits

Behavior Change for Wellness

This course examines the importance of understanding the theory of behavior change to assist others in overcoming barriers so they may achieve sustainable behavior change. A beginning skill set is refined, including how to advise individuals on goal setting, strategy planning, and encouraging maintenance of health and wellness goals.

10546103 • 3 credits

Principles of Physical Conditioning

Quality of life improvement and encouraging others to maximize health and wellness potential through physical conditioning are emphasized. The effects of physical exercise on body systems and functioning are explored, including specific exercises for balance, endurance, strength, and weight loss. Special populations and considerations are highlighted throughout the course.

Prerequisite: General Anatomy & Physiology 10806177

10546104 • 3 credits

Population Health & Wellness

The components and attributes of population health are examined, including economic and policy implications for population-based health promotion activities. The student takes a closer look at measures including interventions and programming that support the health of the community.

10546105 • 3 credits

Program Development, Implementation, & Evaluation

Acquire the skill set to develop, implement, and evaluate a health and wellness promotion project at

the individual or community level. Components of health and wellness promotion program building include the needs assessment, marketing principles, the role of leadership, continuous quality improvement, economics, and collaborations to ensure a successful program.

Prerequisites: Essential Concepts for Health and Wellness 10546100, Behavior Change for Wellness 10546102, Principles of Physical Conditioning 10546103, and Nutrition for Healthy Living 10546101; Corequisite: Population Health & Wellness 10546104

10546106 • 2 credits

Health & Wellness Practicum

Practical experience empowers the student to apply concepts from previous coursework to assist in the transition to the role of community health promoter. The practicum location is chosen in collaboration with faculty based on student interest and site availability. The student works closely with an approved preceptor and faculty to accomplish individualized learning goals.

Prerequisites: Essential Concepts for Health and Wellness 10546100, Behavior Change for Wellness 10546102, Principles of Physical Conditioning 10546103, and Nutrition for Healthy Living 10546101; Corequisites: Population Health & Wellness 10546104 and Program Development, Implementation, & Evaluation 10546105

558 RESEARCH SUPPORT SERVICES

10558101 • 3 credits

Intro to Clinical Research

This course provides a comprehensive introduction to the clinical research process and its history and evolution. Topics include phases of clinical trials, protection of human subjects, roles of the clinical research teams, and responsibilities of clinical research organizations. Upon completion, students are able to prepare an organizational chart depicting a typical research team, defining the roles or responsibilities of each member. Students are able to describe the product approval process and discuss

the general conduct of a typical clinical trial.

Corequisite: Medical Terminology 10501101

10558103 • 3 credits

Epidemiology

Course introduces students to the basic concepts and principles of the study of the distribution and determinants of health-related states or events in specified populations and the application of this study to the control of health problems. Topics include history of epidemiology, classification of disease, epidemiological measurement, outbreak investigation, study design, bias, and causality. Various epidemiologic study designs for investigating associations between risk factors and disease outcomes are also introduced, culminating with criteria for casual inferences. The application of these disciplines in the areas of health services, screening, genetics, and environmental policy are presented. The influence of epidemiology and biostatistics on legal and ethical issues is also covered.

Prerequisite: Medical Terminology 10501101; Corequisite: Introductory Statistics 10804189

10558104 • 3 credits

Legal & Regulatory Research Compliance

Course covers the range of national and international regulations and guidelines governing the development of drugs, diagnostics, medical devices, and biologics. Topics include a review of regulatory agencies, guidelines for regulatory application, required documentation, and protection of human subjects. Specific topics include ICH Guidelines; FDA, IND, and IDE regulations; IRB and IEC activities; HIPAA; Human Subject Protection/ Informed consent; and other rules and regulations. Upon completion, students should be able to demonstrate a basic understanding of regulations, guidelines, and legal issues associated with clinical research, and describe effective means of compliance.

Prerequisites: Intro to Clinical Research 10558101, Medical Terminology 10501101, and admission to Clinical Research Coordinator program 105581

10558105 • 3 credits**Clinical Research Management**

This course introduces the student to the elements involved in implementing, monitoring, and managing a clinical study from the perspective of the sponsor or contract research organization (CRO). Topics include overall project planning, development of study goals, preparation of budget and contracts, implementation of monitoring visits, and effective management of research sites. Upon completion, student should be able to design and prepare a plan for implementation and management of a sample clinical research project.

Prerequisites: Admission to Clinical Research Coordinator program 105581, Intro to Clinical Research 10558101, Medical Terminology 10501101, and Technical Reporting 10801197

10558106 • 3 credits**Genetics**

This course introduces students to the progression of genetic discovery, including evolving legal and ethical implications. Topics covered include Mendelian genetics, post-Mendelian genetics, population genetics, molecular genetics, DNA structure, replication, transcription and translation, and current DNA technologies.

10558107 • 2 credits**Clinical Research Coordinator Practicum**

The student has supervised work experience in a clinical setting at various research sites agreed upon by the instructor and student. Emphasis is on the observation, performance, and enhancement of professional and management skills, interactive team communication, and the application of research principles, procedures, and regulations in the workplace.

Prerequisite: Admission to Clinical Research Coordinator program 105581

10558109 • 3 credits**CRC Lab & Clinical Procedures**

This course prepares the student to perform comprehensive research participant baseline assessments, drug accountability, blood draws, lab preparation, and shipping.

Prerequisites: Admission to Clinical Research Coordinator program 105581,

Intro to Clinical Research 10558101, Epidemiology 10558103, Legal & Regulatory Research Compliance 10558104, and General Anatomy & Physiology 10806177; Corequisite: Microbiology 10806197

10558110 • 3 credits**CRC Clinical Experience**

Learners have supervised clinical work experience in a research setting. Emphasis is on the observation, performance, and enhancement of professional and management skills, interactive team communication, and the application of research principles, procedures, and regulations.

605 ELECTRONICS TECHNOLOGY**10605100 • 4 credits****Process Measurements I**

Reviews basic principles and calibration standards and practices developed in instrument mechanics. Common sensing devices and components employed for the measurement of pressure, temperature, flow, level, and their related phenomena are studied.

Prerequisite: Instrument Mechanics 10605102 with a grade of "C" or better

10605102 • 3 credits**Instrument Mechanics**

An introductory course into instrumentation emphasizing a functional and mathematical approach to the use and study of various pneumatic instruments and principles. Identifies the duties and functions of instruments and their components. Includes calculations of springs, force balance, moment balance, and an introduction to pressure measurement and controllers.

Corequisite: Intermediate Algebra with Applications 10804118

10605104 • 3 credits**Process Measurements II**

This course covers analog and digital electronic transmitters and controllers, pulp and papermaking, pH, conductivity, ORP, and concludes with a study of basic nuclear theory.

Prerequisites: Process Measurements 1 10605100 and Instrument Mechanics 10605102

10605105 • 3 credits**Electrical Circuits I**

An introduction to AC/DC electricity and the physical laws that apply to electronic circuits. Direct Current (DC) covers basic definitions of voltage, current, and resistance and analysis of series and parallel resistive circuits. Alternating Current (AC) includes an introduction to AC generation, capacitors, inductors, and transformers and their applications in electronic circuits. Approximately 50% of the course is spent in the laboratory applying the principles and theory presented in the classroom.

Corequisite: Intermediate Algebra with Applications 10804118

10605107 • 3 credits**Microprocessors**

Introduces students to the basic operation of microprocessors. Begins with an introduction to the basic concepts of architecture and programming. Covers various types of instructions required to perform operations that are basic to microprocessors. Concludes with more advanced programming techniques, interfacing, and microprocessor hardware.

Corequisite: Digital Integrated Circuits 10605151

10605108 • 2 credits**Intro to Electronics**

This course presents a survey of electricity and electronics that includes lab activities and is designed for persons wishing to learn some of the basics of electricity and electronics. It is an excellent refresher course to get back into electronics or improve a skills list. The course is intended for persons where electronics has become a part of their regular occupation and/or a need exists to identify various electronic components and perform basic tests using test equipment such as multimeters. The course covers concepts and applications of DC and AC electricity, and some semiconductor components using basic math skills.

10605110 • 3 credits**Electrical Circuits II**

This course continues the study of AC/DC circuits started in Electrical Circuits I. Advanced DC circuit analysis techniques such as Thevenin's Theorem

COURSE DESCRIPTIONS

and Node analysis are introduced. AC circuit analysis includes discussion on voltage and power theorems used in the analysis of circuits consisting of both resistance and reactance. The complex plane and construction of phase diagrams are also discussed. The course concludes with an introduction to electronic filter circuits used in transmission and communication equipment. Approximately 50% of the course is spent in the laboratory, applying the principles and theory presented in the classroom.

Prerequisite: Electrical Circuits I 10605105 grade "C" or better; Corequisite: Trigonometry with Applications 10804196

10605115 • 3 credits Basic Electronics

Presents semiconductor principles with emphasis on practical applications. After reviewing diode and transistor characteristics, bias stabilizing techniques are studied, followed by an introduction to transistor amplifiers. *Corequisite: Electrical Circuits II 10605110*

10605116 • 4 credits Instrumentation Electronics

This is a basic course in industrial electronics involving devices and circuits that relate to the field of instrumentation. Includes a basic review of electronic and electrical fundamentals. Additional topics include power supplies; operational amplifiers; servo mechanisms; relay ladder logic; PLCs; motor control devices; variable frequency drive; single and 3 phase; and 110 volt, 220 volt and 480 volt generation and usage.

Prerequisite: Basic Electronics 10605115 with a grade of "C" or better

10605117 • 3 credits Programmable Logic Controllers - Beginning

An overview of programmable logic controllers (PLCs) which provides a foundation of knowledge of the programming techniques, operation and maintenance of PLCs used in typical industrial automation.

Prerequisite: Industrial Automation 10462108

10605118 • 3 credits Programmable Logic Controllers–Advanced

This lab-intensive course is a continuation of the beginning PLC course designed to build advanced PLC skills. Activities in advanced programming techniques, motor control, and operator interfaces may be included. This course may be offered for 1-3 credits. Check with the course instructor for specific competencies to be covered each semester.

Prerequisite: Programmable Logic Controllers-Beginning 10605117 or consent of instructor

10605120 • 3 credits Electrical Power Science

An introduction to the field of electrical power technology. Covers the power generation process, transmission techniques, and networks. Topics include prime energy sources, converting raw energy into electrical energy, metering electricity, and disbursing electrical energy from generation plant to consumer.

10605122 • 4 credits Electrical Power Generation

A study of equipment and facilities utilized in the production of electricity. Topics include fuels, prime mover turbines, and generators. Emphasis is on safety controls, efficient production, and operational procedures. The course concludes with computer-simulated operation of a large power station boiler.

Prerequisite: Electrical Power Science 10605120

10605124 • 3 credits Electrical Power Transmission

This course covers the basic principles of high-voltage transmission of electrical energy. Students are introduced to the concepts of active, reactive, and apparent power in electric power technology. Basic properties of single and three-phase transformers and their importance to power transmission are discussed. The behavior of ideal and practical (or non-ideal) transformers are used as a building block to explain the electrical function of a transformer in many transmission circuits. Basic mechanical (e.g., supporting

structures, line sag, galloping, and the effect of weather) and electrical (e.g., corona, pollution, insulation, lightning) requirements that must be met for successful power transmission over large distances are discussed. Approximately 50% of the course is spent in the laboratory working with equipment that simulates power transmission.

Prerequisites: Electrical Machines 10605127 and Electrical Power Distribution 10605125

10605125 • 4 credits Electrical Power Distribution

Designed to teach the principles of distribution systems and substations. Covers wire capacity, sag, guying, supporting structures, troubleshooting, insulators, lightning arresters, switches, and recloser and power circuit breakers. Students also do an exercise applying distribution standards of an actual utility to the building and design of a power line on paper.

Prerequisites: Electrical Circuits I 10605105 and Electrical Power Generation 10605122

10605127 • 3 credits Electrical Machines

Designed to teach fundamentals of generators and motors. Covers DC and AC generators and motors.

Prerequisite: Electrical Circuits I 10605105 or Intro to Electronics 10605108

10605129 • 1 credit Industrial Career Development

This class helps students enrolled in industrial programs prepare their resume and application materials for specific career opportunities in their associated field of study. Individual guidance and mentoring provides more directed preparation towards beginning their career path.

Corequisite: Career Development 10102130 or consent of instructor

10605130 • 3 credits Industrial Internship

This course is designed for second-year associate degree students to gain experience working in their program field. This course may be taken for 1-3 credits where approximately 80-hours

of relevant industry work is required per course credit. Check with your program advisor for detailed reporting requirements for this course.

Prerequisite: Completed approximately 50% of a Technical & Industrial Division AAS program

10605135 • 1 credit
Supervised Occupational Field Experience

This course integrates classroom study with industry specific occupational experience. It provides the student with practical, on-the-job work experience through competencies that are planned, supervised, and evaluated by the instructor and/or a cooperating industry trainer.

Prerequisite: Consent of instructor

10605140 • 3 credits
Electrical Circuit Fundamentals

This course provides an introduction to AC/DC electricity and the physical laws that apply to electronic circuits. Direct Current (DC) covers basic definitions of voltage, current, resistance, and analysis of series and parallel resistive circuits. Alternating Current (AC) includes an introduction to AC generation, capacitors, inductors, and transformers and their applications in electronic circuits. You need to complete the following units on the Fault Assisted Circuits for Electronics Training (FACET) system in order to get credit for the course DC Fundamentals and AC 1 Fundamentals. This is an independent study course that is taken on a computer. You can complete the course at any of MSTC's four locations, but once you start the course at a particular location you need to continue and finish at that location. The course is set up on the computer and includes both the theory and laboratory portions. You are expected to complete course work with minimal supervision.

10605141 • 3 credits
Circuit Analysis Fundamentals

This course continues the study of AC/DC circuits started in Electrical Circuits Fundamentals. Advanced DC circuit analysis techniques such as Thevenin's Theorem and Node analysis is discussed. Advanced AC circuit analysis includes an introduction to phase analysis and complex circuits. The

course concludes with an introduction to electronic filter circuits used in communication equipment. You need to complete the following units on the Fault Assisted Circuits for Electronics Training (FACET) system in order to get credit for the course DC network theorems and AC2 fundamentals.

This is an independent study course that is taken on a computer. You can complete the course at any of MSTC's four locations, but once you start the course at a particular location you need to continue and finish at that location. The course is set up on the computer and includes both the theory and laboratory portions. You are expected to complete the course work with minimal supervision.

Prerequisite: Electrical Circuit Fundamentals 10605140

10605142 • 3 credits
Semiconductor and Transistor Fundamentals

This course presents semiconductor principles with emphasis on practical applications. Diode and transistor characteristics and bias stabilizing techniques are studied, followed by an introduction to transistor amplifiers. You need to complete the following units on the Fault Assisted Circuits for Electronics Training (FACET) system in order to get credit for the course: semiconductor fundamentals, transistor amplifier circuits, and transistor power amplifiers. This is an independent study course that is taken on a computer. You can complete the course at any of MSTC's four locations, but once you start the course at a particular location you need to continue and finish at that location. The course is set up on the computer and includes both the theory and laboratory portions. You are expected to complete the course work with minimal supervision.

Prerequisite: Circuit Analysis Fundamentals 10605141

10605150 • 3 credits
Linear Circuitry

Continues the study of semiconductors, including the frequency effects in multi-stage amplifiers. Operational amplifiers theory and the effects of negative feedback on operational amplifiers is studied. The application of operational amplifiers in various linear

and non-linear circuits is also discussed. Regulated power supplies, oscillators, and timers are analyzed. Frequency mixing and signal modulation is studied after an introduction to the frequency domain.

Prerequisite: Basic Electronics 10605115 with a grade of "C" or better

10605151 • 3 credits
Digital Integrated Circuits

The logical theory and application of digital integrated circuits are studied with regard to individual chip functions and their interconnections to build digital circuits. Techniques used in the analysis of digital ICs include number systems, Boolean algebra, and Karnaugh mapping techniques. Student experimentation utilizes standard industrial integrated circuit families to reinforce the analysis and techniques of circuit operation.

Corequisite: Basic Electronics 10605115

10605152 • 3 credits
Control Circuits & Systems

Provides knowledge of basic automatic control systems used in industry. Includes such systems as power and motor control, photoelectric devices, servomechanisms, and operation amplifier applications. The student is introduced to basic industrial closed-loop system control including on/off, proportional, PI, and PID modes. Emphasis is on hands-on applications of the above principles. Basic SCR applications involving AC inverter and DC phase controlled motor drives are discussed and applied using real-world equipment in the laboratory. Industrial safety is stressed throughout the course.

Prerequisite: Digital Integrated Circuits 10605151; Corequisite: Microprocessors 10605107

10605160 • 3 credits
Computer Systems

This course is designed to teach the basic operations of a computer. This course emphasizes the electronic components used in computers with an emphasis on the processor. The fundamental relationships between components is presented to form a strong foundation in computer hardware. In addition to formal lecture periods, a laboratory period is utilized to give "hands-on" time so the

COURSE DESCRIPTIONS

student can analyze actual computer components, circuits, and assemblies. Computer usage during lab periods give the student experience with computers.

Corequisite: Digital Integrated Circuits 10605151

10605161 • 3 credits

Computer Systems Design

The course trains the student to start with a basic computer system and expand its operating capabilities. Units cover basic system devices using standard industrial integrated circuits. Processor and memory timing is examined to explain the basic operating theory of computer systems. Various memory technologies are studied to determine appropriate memory expansion procedures. The DMA Direct Memory Access Integrated Circuit is also studied as an example of peripheral to memory data transfers. This course gives ample hands-on time in the laboratory for circuit construction and evaluation. Troubleshooting procedures are examined as each unit is developed.

Prerequisite: Computer Systems 10605160

10605162 • 3 credits

Input-Output Devices & Storage

Deals with specific peripheral devices encountered in all computer systems regardless of the system type or application. Emphasis is placed on the theory of computer interfacing, and on various troubleshooting methods used in computer maintenance. Performance evaluation is studied using diagnostic routines when possible. Testing methods are explained and used, including the use of machine code routines. The purpose of this type of approach is to give the student substantial hands-on experience in all major input/output hardware areas.

Prerequisite: Computer Systems 10605160

10605163 • 3 credits

Computer Applications

This course covers main topic areas in a progressive format. The initial unit introduces the student to operating system functions and system operations. After a level of user proficiency is reached, the system architecture is covered on a functional block

diagram level. Additional topics such as system setup and configuration, troubleshooting, and various repair procedures are also addressed.

Prerequisite: Computer Systems 10605160

10605164 • 1 credit

Electronics Fabrication 1

This course provides hand-on activity in the design and construction of electronic equipment. Topics include but are not limited to circuit design, schematics, printed circuit board layout, and fabrication. The course includes projects designed to apply your knowledge of electrical theory to real-world applications.

Prerequisite: Intro to AutoCAD 10623106; Corequisite: Basic Electronics 10605115

10605165 • 1 credit

Electronics Fabrication 2

This course is a continuation of Electronics Fabrication 1 in which you assemble, test, and troubleshoot your electronics projects. Topics include but are not limited to surface mount technology, soldering techniques, and troubleshooting. A formal presentation and demonstration of a working project is expected.

Prerequisite: Electronics Fabrication 1 10605164

10605170 • 4 credits

Electrical Power System Protective Relaying

A study of controlling devices and systems utilized in generation, distribution, and transmission of electricity. Students study instrument transformers, protective relays, protective systems, power system standards, drawing conventions, equipment rating terminology, insulation, circuit interrupting devices, grounding, and power system faults.

Prerequisite: Electrical Machines 10605127

10605171 • 4 credits

Process Control

Introduces the concept of automatic process control on the instrument technician level. Reviews principles of force/moment balance and feedback concepts. Studies two-position control, feedback/feedforward control, and process characteristics related

to process gain, dead time, time constants, and process capacity. Studies controller functions and effects such as proportional, integral, and derivative, and how different combinations of each cause controller outputs and inputs to respond in open and closed loops.

Practices digital controller configuration and loop tuning for level, pressure, flow, and temperature.

Prerequisites: Instrument Mechanics 10605102 and Process Measurements I 10605100

10605173 • 3 credits

Distributed Control Systems Beginning (DCS-1)

Analysis of elements of a distributed control system (DCS); focus on understanding the role, scope, implementation of a DCS application to industrial process systems and equipment; recognition and proper assessment system/process documentation; identification of static and dynamic processes; instrumentation; control methods; and control structure and control hardware. Additional topics include DCS software, introduction to programming languages, DCS controller programming structure(s), human machine interface (HMI) usage, process network utilization, and DCS controller and HMI programming lab exercises.

10605174 • 3 credits

Distributed Control Systems Advanced (DCS-2)

Advance concepts a distributed control system (DCS), focusing on control loop design, control methods, and control structure. Additional topics include advance DCS software programming, function block, add-on instruction, alarm configuration, and loop tuning procedures; advance human machine interface (HMI) programming Plant PAX, trend development, security, backups, alarming, and events; DCS controller and HMI programming lab exercises; and exposure to server/client and virtualization environments.

Prerequisite: Distributed Control Systems Beginning (DCS-1) 10605173

606 MECHANICAL TECHNOLOGY

10606107 • 3 credits CAD

This course is designed to acquaint students with Computer Assisted Drafting (CAD) systems and their use as drafting tools. The areas of emphasis are terminology, types of systems, use of keyboard and mouse, and creation of two-dimensional mechanical drawings.
Prerequisite: Mechanical Drafting Concepts 10606142

10606109 • 2 credits Geometric Dimensioning & Tolerancing

Provides fundamentals of geometric dimensioning and tolerancing (GD&T) per the ASME Y14.5M standard. Development of technical knowledge and skills required for application and interpretation of GD&T is the focus of the course. Design requirements for functional gages and other methods used to verify GD&T specifications are also presented.

10606110 • 3 credits Descriptive Geometry

Covers the theory of projection and the solution by graphical methods of problems dealing with the relation to points, lines, and planes. Revolutions, intersections, and developments are included. Practical application problems are used to supplement course theory.

607 CIVIL ENGINEERING TECHNOLOGY

10607100 • 3 credits Civil Engineering-Special Topics

This course is offered on a variety of topics related to civil engineering technology. Topics include AutoCAD and GIS. Each course may be offered for up to three credits.

10607110 • 4 credits Cemented Aggregate Mixtures

Courses inspection/testing concepts, sampling procedures, aggregate properties, PCC mix design methods, HMA design, and field laboratory quality control testing. ACI Grade I and WisDOT PCCTEC certifications are

available through this course.
Corequisite: Trigonometry with Applications 10804196

10607117 • 2 credits GIS Fundamentals

This course is an introduction to geographic information systems (GIS), and how they are used to document and convey information that has a spatial component. Students use GIS software to create, manipulate, and present geographic information.
Prerequisite: Intro to AutoCAD 10623106

10607118 • 1 credit Land Records

This course focuses on the interpretation of land documents; this includes property descriptions, the Public Land Survey System, meridians, angle measurements, and line direction formats used by surveyors.
Corequisite: Intro to Surveying 10607155

10607138 • 3 credits Highway Construction Materials

This course covers properties and field testing procedures for materials used in highway construction. Material properties of aggregates, bituminous materials, and Portland cement are evaluated individually and as mixtures. Proportioning materials in mixture design, construction methods, curing, material testing, and the interrelationship of these topics are evaluated in this course.
Prerequisite: Intermediate Algebra with Applications 10804118

10607145 • 3 credits Soils

This course covers the general classification and properties of soil and subsurface materials. Subsurface exploration soil tests and hydraulic principles are covered as used in the field of civil engineering. Laboratory techniques are developed for testing and classifying soil and aggregate.
Corequisite: Intermediate Algebra with Applications 10804118

10607149 • 3 credits Highway Bridges, Medians, & Barriers

The processes, considerations, and safety aspects of constructing and

maintaining highway bridges, medians, and barriers are covered. Includes investigation of structural loads, stress factors, and valid design procedures for these critical components of today's modern roads and highways.
Prerequisite: Highway Surveying 10607171; Corequisite: Inspection 10607167

10607150 • 3 credits Civil Engineering Drafting I

Provides fundamentals necessary for using civil engineering software to create subdivision, property, traverse, topographic, and contour drawings. Information collected in Surveying-Total Station is downloaded onto the computer to create drawings.
Prerequisite: Intro to AutoCAD 10623106; Corequisites: Intermediate Algebra with Applications 10804118 and Intro to Surveying 10607155

10607152 • 2 credits Civil Engineer & Highway Internship

Job experience gained through supervised on-the-job activities directly related to the Civil Engineer & Highway Internship program builds upon and enhances the students' understanding of theories and concepts learned in their first year of the program and provide insight into their future courses within the program.

10607155 • 2 credits Intro to Surveying

Covers fundamental principles of surveying and the use of surveying instruments in the application of these principles. Topics include measurement of horizontal distances, care and use of survey equipment, note keeping, differential leveling, angular measurement, and surveying field procedures. Actual field problems supplement classroom instruction.
Corequisite: Intermediate Algebra with Applications 10804118 and Intro to AutoCAD 10623106

10607156 • 3 credits Surveying-Total Station

Advanced principles of surveying and use of surveying instruments are covered. Topics include land surveying, calculation and layout of vertical and horizontal curves, and topographic surveys using transits and total stations.

COURSE DESCRIPTIONS

The data collected is downloaded onto computers for use in Civil Engineering Drafting I. Actual field problems supplement classroom instruction.

Prerequisites Intro to Surveying 10607155; *Corequisites*: Trigonometry with Applications 10804196 and Civil Engineering Drafting I 10607150

10607160 • 2 credits **Civil Engineering Drafting II**

Expands on topics learned in Civil Engineering Drafting I. Covers fundamentals necessary for creating a set of highway plans. Drawings include the development and design of alignments, profiles, cross-sections, and earthwork calculations. In addition, design information is downloaded from the computer to the Total Station to be used for staking.

Prerequisites: Civil Engineering Drafting I 10607150 and Intro to Surveying 10607155

10607166 • 3 credits **Construction Estimating & Management**

Goals and performance of quantity takeoff, cost estimation, resource leveling, estimating labor, and contract interpretation are presented. Project bidding, construction techniques, and equipment capabilities are evaluated.

Prerequisites: Microsoft Office-Introduction 10103106, Problem Solving and Critical Thinking 10623100, and Intro to AutoCAD 10623106

10607167 • 2 credits **Inspection**

Concerns construction inspection and its importance, the role of the inspector, requirements for a good inspector, and general duties of the inspector. Emphasis is on concrete and asphalt inspection.

Prerequisite: Intro to Surveying 10607155

10607170 • 3 credits **Storm Water Management**

Emphasis is on stormwater management, calculations, planning, and design. Topics include open channel and pressure flow, storage and treatment facility design concepts, and regulation, permitting, and enforcement for sanitary and stormwater ordinances.

Prerequisite: Civil Engineering Drafting I 10607150

10607171 • 2 credits

Highway Surveying

Principles of geometric design of highways, including horizontal curves, vertical curves, super elevation, and using station/offset orientation. Also includes basic design principles of airports, railways, and pipeline design. Evaluation of existing traffic and designing for future needs are included.

Prerequisites: Trigonometry with Applications 10804196, Civil Engineering Drafting I 10607150, and Intro to Surveying 10607155

10607174 • 2 credits

GPS for Surveyors

Basic operation of survey-grade GPS equipment and equipment limitations are explored. Emphasis is on data collection, stakeout, and performing calculations with a hand-held data collector. Interaction of design team and surveyors is discussed.

Prerequisite: Intro to Surveying 10607155

10607180 • 2 credits

Civil Engineering Capstone

The civil engineering capstone class is a project-based learning experience which allows students to integrate and demonstrate their civil engineering drafting, design, and survey skills by applying them to a specific engineering problem. Students collaborate in teams to apply their problem solving and technology skills to a design experience. Working in collaboration with a faculty member, student's plan, produce, document, and present quality engineering designs. Students should be in their last semester of the Civil Engineering Technology program to enroll in this class.

Prerequisites: Civil Engineering Drafting II 10607160, Storm Water Management 10607170, and Highway Surveying 10607171

623 INDUSTRIAL MANUFACTURING TECH

10623100 • 1 credit

Problem Solving & Critical Thinking

Introductory course in problem setup, organization, and solution. Identification of given and unknown values, equation setup, unit conversions, and use of significant figures. Introduction to

physical science and working with units of force, area, volume, time, and distance in metric and imperial systems. This course is designed to help you be successful in technical and engineering classes and should be taken during your first semester of enrollment.

10623101 • 3 credits

Intro to Manufacturing

This course is designed to introduce the student to manufacturing. This course may be repeated for a maximum of three credits.

10623102 • 3 credits

Safety - Special Topics

This course provides an overview of occupational safety and health compliance procedures emphasizing areas such as hazard communication, lockout/tagout, confined space entry, personnel protective equipment, machine guards, and hand and portable tools.

10623103 • 3 credits

Industrial Controls - Special Topics

This course may be offered for a variety of topics related to industrial process controls. Topics may include instrumentation, calibration, measurement, control loops, and specialized devices. Each course may be offered for up to three credits.

10623104 • 3 credits

Mechanical Drafting Concepts

Drafting media, drafting standards, reproduction processes, geometric construction, isometric and oblique pictorial drawings, dimensioning, tolerancing, parts drawing, and part identification are included in this course.

10623105 • 1 credit

Blueprint Reading

Provides basic general information in reading and understanding plans and drawings that are useful to vocational students with any major. Focusing on line and symbol conventions used in industrial blueprints and visualization of solid objects from orthographic and isometric projections, the course leads to development of required skills for industrial design and problem solving.

10623106 • 2 credits**Intro to AutoCAD**

This is an introductory course in computer aided drafting (CAD) using AutoCAD software. It provides foundation skills in using CAD software to create and print two-dimensional technical drawings. This course is available to students in any program. Computer skills and prior knowledge of drawing/drafting techniques is recommended.

10623107 • 3 credits**Advanced CAD**

This course is a continuation of the principles learned in Intro to AutoCAD 10623106. Students interact with the Intro to AutoCAD software to create advanced mechanical drawings. It begins with a review of the various types of pictorial drawings, continues with isometric drawing, and culminates with the production of three-dimensional drawings. Surface models and solid models are drawn and shaded using AutoCAD software.

Prerequisite: Intro to AutoCAD 10623106

10623110 • 3 credits**Quality Assurance Concepts & Techniques**

Quality organizations and programs, analysis under unstable conditions, criteria and methods of control charting means, comparison of various sampling plans, statistical process control methods, codes, specifications, safe applications of equipment, and qualifications of personnel are covered.

Prerequisite: Intermediate Algebra with Applications 10804118

10623111 • 3 credits**Special Topics in Metrology**

This course covers advanced topics such as piping and weldment drawings using CAD techniques. Specification techniques and detail and assembly drawings may also be covered, as well as Geometric Dimensioning and Tolerancing.

Prerequisite: Mechanical Drafting Concepts 10606142 or consent of instructor/dean

10623112 • 3 credits**Manufacturing Practices**

As competition for market share continues to increase, manufacturers

rely on innovations in technology, methods, and practices to give them the edge they need. To remain competitive globally, manufacturers' watchwords are productivity, efficiency, and quality. In this course, students examine some of the practices that many manufacturing operations have come to rely on to make their operations competitive, efficient, and cost-effective. Topics covered in this class include the principles of lean manufacturing, value versus non-value added waste, 5Ss, value stream mapping, set-up reduction and quick changeover, cellular flow, building a lean culture, total productive maintenance, and Statistical Process Control (SPC).

10623113 • 2 credits**3D CAD Software**

This course introduces students to the concepts and drawing tools required to develop three-dimensional models using CAD software.

Prerequisite: Intro to AutoCAD 10623106

10623121 • 5 credits**Intro to Composites in Blade Manufacturing**

This course provides an introduction to wind turbine blade manufacturing using composite materials. Students perform hands-on activities with fabric, epoxy, and chemicals. This is the first course in a series of three courses in composite blade manufacturing.

10623122 • 5 credits**Composite Blade Molding**

This course provides hands-on activities in glass laying, infusion, and de-molding to further develop the understanding of composites and wind turbine blade manufacturing utilizing an 8m blade training mold. The student learns how to be part of a manufacturing team. This is the second in a series of three blade manufacturing courses.

Prerequisite: Intro to Composite Blade Manufacturing 10623121

10623123 • 5 credits**Composite Blade Finishing**

This course provides skill development in trimming, sanding, and fairing of a wind turbine blade utilizing an 8m blade. The student learns how to be part of a manufacturing team. This

is the third in a series of three blade manufacturing courses.

Prerequisite: Composite Blade Molding 10623122.

10623130 • 4 credits**Standards & Metrology**

The reason for and the language of measurement. Precision, accuracy, and reliability. Measurement systems and the evolution of standards. Some common measurement tools and techniques, applications, comparisons, and tool accuracy are covered. Codes, inspection standards, and testing procedures are introduced. Learning environment includes class discussion, laboratory experiments in measurement and gauging, analysis of generated data, reports, and project work.

Prerequisite: Quality Assurance Concepts & Technique 10623110

10623133 • 4 credits**Manufacturing Materials and Processes**

This course introduces the properties and use of engineering materials. Materials discussed include metals, alloys, ceramics, woods, polymers, and composites. Different heat treatment processes and production processes that can be used to manufacture ferrous and non-ferrous metals and alloys are also covered. Material testing methods and their relevance to applications are included. Modern manufacturing tools, machines, and processes are studied. Learning environment includes class discussion, paper presentation on specific topics, and field trips.

10623135 • 3 credits**Strength of Materials**

A study of stress and strain experienced by machine parts and structural members in service. Includes statics and vector analysis as applied to structures, properties of materials, beam theory, beam design, theory of columns, and design formulas. Emphasis is on application of theory and problem solving.

Prerequisite: General Physics I 10806154

10623140 • 3 credits**Statistical Quality Control**

Entry-level course for learning the BASICS of statistical quality control. Students are given practical training

COURSE DESCRIPTIONS

in the use of statistical quality control, incoming, in process, and final inspection. Emphasis is given to topics like error, operating characteristics, significant tests, sampling, and manufacturing process control.

Prerequisite: Quality Assurance Concepts & Technique 10623110

10623170 • 3 credits

Principles of Lean Manufacturing

Lean Manufacturing is a business initiative to systematically reduce cost and throughput time within a manufacturing operation by minimizing the waste at every stage of the operation. Unlike Lean, traditional manufacturing often involves large batch sizes and inventories that add to the cost of the product in terms of wasted time, non-value added activities, and, eventually, less than desirable product quality. Lean Manufacturing exposes the waste occurring within a company and can make the practice of continuous improvement a real possibility. It is a fusion of proven ideas like Just-In-Time, Kanban, Kaizen, and Total Quality coming together to work in unison toward achieving zero inventory, zero defects, zero delays, and zero downtime in the design, manufacturing, and distribution of goods and services within a company. When fully adopted as a manufacturing philosophy, it significantly shortens the timeline between a customer order and shipment of the finished product. After completing this course you will have the necessary tools to reduce waste, streamline performance, and improve quality within your organization. If implemented consistently over long periods of time, Lean Manufacturing can have a significant impact on cost savings, productivity, profitability, and product quality.

10623171 • 3 credits

Intro to Six Sigma

Six Sigma is defined as a disciplined, data-driven methodology that utilizes proven statistical analysis techniques to significantly improve performance in all aspects of a business. The sustained practice of Six Sigma has the potential to create a paradigm shift within an organization that can achieve significant improvements in productivity, profitability, and product quality. Six Sigma is also driven by specific customer needs that focus attention on managing, controlling,

and improving business processes to maximize customer satisfaction. This course is designed to give you an overview of Six Sigma as it is practiced today in many organizations. At the completion of this course, you will have a basic understanding of what Six Sigma is and what it is not. You are exposed to the standard terminology and basic techniques used in the practice of Six Sigma and how this approach compares to other quality initiatives being used today. You will have a good understanding of the benefits of implementing Six Sigma within your organization and what is required to start the process. Credits earned through this course can be used to continue your training toward a Green Belt certification.

10623172 • 4 credits

Six Sigma Green Belt Training

This course is designed to prepare you for the Green Belt certification offered by the American Society for Quality (ASQ). You are trained in the body of knowledge required for Green Belt certification. You also have the opportunity to gain mastery of the techniques by completing a quality improvement project using the concepts and techniques discussed in class. You learn to harness the power of a spreadsheet to compile, chart, analyze, and interpret the data gathered in your quality improvement project. A Six Sigma Green Belt operates under the supervision of a Black Belt and is closely aligned with the quality improvement initiatives of a business. The concepts you learn in this course can be applied to manufacturing, service, or any other type of industry that wants to improve its bottom line, employee motivation, and customer satisfaction. Credits earned in this course can be used toward the CQI certificate offered by MSTC.

10623175 • 4 credits

Lean Six Sigma Project Application

The course is the capstone course for the Six Sigma Green Belt certification. The student is required to participate in a team-based project and the team must successfully complete the complex project. The student also completes an individual Six Sigma project within an organization that they are a member of using the DMAIC methodology.

The student is also required to pass an exam on Six Sigma concepts and methodology.

662 ELECTRICAL ENGINEERING TECHNOLOGY

10662112 • 3 credits

DC & AC Electronics 3

This course covers the advanced circuit analysis concepts and techniques used by electronic engineering technologists. After reviewing Kirchhoff's laws, phasors, and impedance, focus is placed on superposition nodal analysis. Thevenin's and Norton's theorems, complex power, and ideal transformers. Computer simulations are used to reinforce theoretical analyses. Applications of KVL and KCL are examined with Transistor Bias networks. Students perform laboratory experiments and prepare technical reports. This course is for students accepted into the Milwaukee School of Engineering (MSOE) bridge program.

Prerequisite: Graduate of the Electrical Power Engineering program 106055 and accepted into the Milwaukee School of Engineering (MSOE) bridge program.

10662124 • 3 credits

Electronic Circuit Analysis

Topics include variable frequency analysis of RLC circuits, first order Bode plots, and correlation of time and frequency response. Semiconductor devices and circuits, including diodes, bipolar transistors and field effect transistors are studied. The time and frequency response of single stage BJT and FET amplifiers are examined. Lab work includes analysis, computer simulation, and actual measurements. This course is for students accepted into the Milwaukee School of Engineering (MSOE) bridge program.

Prerequisite: Graduate of the Electrical Power Engineering program 106055 and accepted into the Milwaukee School of Engineering (MSOE) bridge program.

GENERAL EDUCATION COURSE DESCRIPTIONS

GENERAL COLLEGE SKILLS

76862771 • 0 credit

Career Awareness

This short-term course helps students reflect upon their strengths and identify possible careers that utilize those strengths. Topics include goal setting, interest inventories, personality styles, career searching, labor market statistics, trend, projections, and career planning. This is a tuition-free class. Students must be 18 years of age or older. This course cannot be used to satisfy program completion requirements at MSTC.

74860743 • 0 credit

Computer Basics

This short-term course offers instruction in general computer systems (hardware, software, data, and users), logging into the MSTC network, basic commands and features of Windows 2000, and introductory elements of email and the Internet. This is a tuition-free class. This course cannot be used to satisfy program completion requirements at MSTC.

10835103 • 1 credit

Study Skills

This course provides students with strategies to develop study skills for success in college. Through hands-on experiences, students apply study skills, learn how to think critically, and use information resources and technology. The purpose of this course is to prepare students for successful entry into required program courses. This course is tuition-bearing and under certain circumstances may qualify for financial aid. This course cannot be used to satisfy program completion requirements at MSTC.

801 COMMUNICATION SKILLS

Developmental Communication

The following courses are developmental and do not meet graduation requirements.

10831103 • 3 credits

Intro to College Writing

Introduces basic principles of composition, including organization, development, unity, and coherence in paragraphs and multi-paragraph documents. The purpose of this course is to prepare students for successful entry into required program courses. This course is tuition-bearing and under certain circumstances may qualify for financial aid. This course cannot be used to satisfy program completion requirements at MSTC.

Prerequisite: Accuplacer Sentence Skills score of 55 or equivalent. Proficiency in word processing skills recommended

10838105 • 3 credits

Intro to Reading and Study Skills

This course provides students with opportunities to develop study skills and expand reading skills, including comprehension, fluency, and vocabulary skills. Students apply reading skills to academic tasks and read to acquire information from a variety of sources. The purpose of this course is to prepare students for successful entry into required program courses. This course is tuition-bearing and may qualify for financial aid. This course cannot be used to satisfy program completion requirements at MSTC. Introduces basic principles of composition, including organization, development, unity, and coherence in paragraphs and multi-paragraph documents.

Associate Degree/Technical Diploma Communication Skills

Please check which communication skills course meets your program requirements.

10801136 • 3 credits

English Composition 1

This course is designed for learners to develop knowledge and skills in all aspects of the writing process. Planning, organizing, writing, editing, and revising are applied through a variety

of activities. Students analyze audience and purpose, use elements of research, and format documents using standard guidelines. Individuals develop critical reading skills through analysis of various written documents.

Prerequisite: Accuplacer Sentence Skills score of 85 or equivalent or Intro to College Writing 10831103 with a grade of "C" or better. Proficiency in word processing skills recommended

10801195 • 3 credits

Written Communication

Develops writing skills which include prewriting, drafting, revising, and editing. A variety of writing assignments is designed to help the learner analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Also develops critical-reading and critical-thinking skills through analysis of a variety of written documents.

Prerequisite: Accuplacer Sentence Skills score of 85 or equivalent or Intro to College Writing 10831103 with a grade of "C" or better. Proficiency in word processing skills recommended

10801196 • 3 credits

Oral/Interpersonal Communication

Focuses upon developing speaking, verbal, and non-verbal communication, and listening skills through individual presentations, group activities, and other projects.

10801197 • 3 credits

Technical Reporting

The student prepares and presents oral and written technical reports. Types of reports may include lab and field reports, proposals, technical letters and memos, technical research reports, and case studies. Designed as an advanced communication course for students who have completed at least the prerequisite introductory writing course.

Prerequisite: Written Communication 10801195 with a grade "C" or better or English Composition I 10801136 with a grade "C" or better. Proficiency in word processing skills recommended

10801198 • 3 credits

Speech

Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience

GENERAL EDUCATION COURSE DESCRIPTIONS

analysis, methods of organization, research, structuring evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of this course.

10801199 • 3 credits

Employment Strategies

A course designed to assist students in securing employment. This communication-based course helps develop an awareness of personal and academic skills as they relate to the job seeking process. Topics of study include personal and skill assessments, research of employment sources, completion of application forms, formation of professional resumes, composition of various business letters, interviewing skills, and job offer evaluation. NOTE: To enroll, you must have completed 50% of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

804 MATHEMATICS

Developmental Math

The following courses are developmental and do not meet graduation requirements.

77854783 & 77854784 • 0 credit

ABE Math Prep V/VI

Students must enroll in ABE Math Prep V / VI concurrently. This course is designed to prepare students with low or rusty math skills to prepare for the math GED test, prepare for the Accuplacer math test, study to increase their Accuplacer math score, or as a prerequisite for their required program math class. Topics include calculations, percents, fractions, decimals, area, perimeter, and the basics of algebra. These are tuition-free classes. Math preparation for GED and Accuplacer testing is also available in a flexible lab format in the Learning Commons. These courses cannot be used to satisfy program completion requirements at MSTC.

10834109 • 3 credits

Pre-Algebra

Provides an introduction to algebra. Includes operations on real numbers, solving linear equations, percent and

proportion, and an introduction to polynomials and statistics. Prepares students for elementary algebra and subsequent algebra-related courses.

Prerequisite: Accuplacer Math score of 65, Accuplacer Algebra score of 30, and ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S" (Note: ABE Math Prep VI & V courses cannot be used to satisfy program completion requirements at MSTC)

Associate Degree/Technical Diploma / Certificate Level Math

Please check which math course meets your program requirements.

10804107 • 3 credits

College Mathematics

This course is designed to review and develop fundamental concepts of mathematics pertinent to the areas of: 1) arithmetic and algebra; 2) geometry and trigonometry; and 3) probability and statistics. Special emphasis is placed on problem solving, critical thinking, logical reasoning, making connections, and using calculators. Topics include performing arithmetic operations and simplifying algebraic expressions, solving linear equations and inequalities in one variable, solving proportions and incorporating percent applications, manipulating formulas, solving and graphing systems of linear equations and inequalities in two variables, finding areas and volumes of geometric figures, applying similar and congruent triangles, converting measurements within and between U.S. and metric systems, applying Pythagorean Theorem, solving right and oblique triangles, calculating probabilities, organizing data and interpreting charts, calculating central and spread measures, and summarizing and analyzing data.

Prerequisites: Accuplacer Math score of 65 and Accuplacer Algebra score of 30 or higher or Pre-Algebra 10834109 with a grade of "C" or better or Intro to College Math 10804106

10804118 • 4 credits

Intermediate Algebra with Applications

This course offers algebra content with applications. Topics include properties of real numbers, order of operations, algebraic solution for linear equations

and inequalities, operations with polynomial and rational expressions, operations with rational exponents and radicals, algebra of inverse, and logarithmic and exponential functions.

Prerequisite: Pre-Algebra 10834109 with a grade of "C" or better; Accuplacer Arithmetic score of 110; Accuplacer Arithmetic score of 90 and Accuplacer Algebra score of 30; or Accuplacer Algebra score of 45

10804189 • 3 credits

Introductory Statistics

Students taking Introductory Statistics display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. Algebra knowledge and foundational skills in mathematics are important for success in this course.

Prerequisite: Pre-Algebra 10834109 with a grade of "C" or better or College Math 10804107 with a "C" or better or Accuplacer Algebra score of 45 or greater or ACT math score of 19 or greater

10804195 • 3 credits

College Algebra with Applications

This course covers those skills needed for success in Calculus and many application areas on a baccalaureate level. Topics include the real and complex number systems, polynomials, exponents, radicals, solving equations and inequalities (linear and nonlinear), relations and functions, systems of equations and inequalities (linear and nonlinear), matrices, graphing, conic sections, sequences and series, combinatorics, and the binomial theorem.

Prerequisite: Trigonometry with Applications 10804196 with a grade of "C" or better

10804196 • 3 credits

Trigonometry with Applications

Topics include circular functions, graphing of trigonometry functions, identities, equations, trigonometric functions of angles, inverse functions, solutions of triangles complex numbers, DeMoivre's Theorem, polar coordinates, and vectors.

Prerequisite: Intermediate Algebra with Applications 10804118 with a grade of "C" or better

10804198 • 4 credits**Calculus 1**

Analyze and graph algebraic expressions, especially conic sections. Develop an intuitive understanding of limits, derivatives, and integrals. Apply the derivative and the integral to certain physical problems.

Prerequisite: College Algebra with Applications 10804195 with a grade of "C" or better

806 NATURAL SCIENCE**Developmental Science**

The following courses are developmental and do not meet graduation requirements.

10836113 • 2 credits**Prep for Basic Biology**

Introduces students to basic principles of biology. Students become familiar with the nature of science, basic biochemistry concepts, and the structure and function of the cell.

The purpose of this course is to prepare students for successful entry into required program courses. This course is tuition-bearing and under certain circumstances may qualify for financial aid. This course cannot be used to satisfy program completion requirements at MSTC.

10836133 • 2 credits**Prep for Basic Chemistry**

Introduces basic principles of chemistry including the properties of matter, atomic structure, and the classification of chemical reactions. Students learn to characterize solutions, acids, and bases and differentiate between elements and compounds. The purpose of this course is to prepare students for successful entry into required program courses. This course is tuition-bearing and under certain circumstances may qualify for financial aid. This course cannot be used to satisfy program completion requirements at MSTC.

Associate Degree/Technical Diploma Level Science

Please check which science class meets your program requirements.

10806112 • 3 credits**Principles of Sustainability**

Prepares the student to develop

sustainable literacy; analyze the interconnections among the physical and biological sciences and environmental systems; summarize the effects of sustainability on health and well-being; analyze connections among social, economic, and environmental systems; employ energy conservation strategies to reduce the use of fossil fuels; investigate alternative energy options; evaluate options to current waste disposal and recycling in the U.S.; and analyze approaches used by your community to promote and implement sustainability.

10806114 • 4 credits**General Biology**

Introduces general biological concepts and principles. Emphasis is on cell structure and function, genetics, evolution, and taxonomical relationships. Consideration is also given to diversity among the various kingdoms.

Prerequisite: Two semesters of high school biology with a grade of "C" or better

10806134 • 4 credits**General Chemistry**

Covers the fundamentals of chemistry. Topics include the metric system, problem solving, periodic relationships, chemical reactions, chemical equilibrium, and properties of water; acids, bases, and salts; and gas laws.

Prerequisite: College Math 10804107 with a grade of "C" or better, or Intermediate Algebra with Applications 10804195 with a grade of "C" or better, or Accuplacer Algebra score of 57 or greater

10806154 • 4 credits**General Physics 1**

Presents the applications and theory of basic physics principles. This course emphasizes problem solving, laboratory investigation, and applications. Topics include unit conversion and analysis, vectors, translational and rotational kinematics, translational and rotational dynamics, heat and temperature, and harmonic motion and waves.

Corequisite: Trigonometry with Applications 10804196

10806177 • 4 credits**General Anatomy & Physiology**

Examines basic concepts of human anatomy and physiology as they

relate to health sciences. Using a body systems approach, the course emphasizes the interrelationships between structure and function at the gross and microscopic levels of organization of the entire human body. It is intended to prepare health care professionals who need to apply basic concepts of whole body anatomy and physiology to informed decision making and professional communication with colleagues and patients.

Prerequisite: Complete a combination of one year of high school Biology, Chemistry, or Anatomy and Physiology with a grade of "C" or better; or one semester of college-level Biology or Chemistry with a grade of "C" or better; or Human Body in Health & Disease 10509102 with a grade of "C" or better

10806179 • 4 credits**Advanced Anatomy & Physiology**

The second semester in a two-semester sequence in which normal human anatomy and physiology are studied using a body system approach with emphasis on the interrelationships between form and function at the gross and microscopic levels of organization. Instructional delivery is within a classroom and laboratory setting. Experimentation within a science lab includes analysis of cellular metabolism, and the individual components of body systems such as the nervous, neuromuscular, cardiovascular, and urinary systems. Continued examination of homeostatic mechanisms and their relationship to fluid, electrolyte, acid-base balance, and blood. Integration of genetics to human reproduction and development are also included in this course.

Prerequisite: General Anatomy & Physiology 10806177 with a grade of "C" or better

10806184 • 3 credits**Plant Biology**

This lecture/laboratory course provides students with an in-depth study of the plant kingdom. The content includes, but is not limited to, plant cell anatomy and physiology, plant genetics, plant classification, plant anatomy and physiology, plant responses, plant life cycles, and ecology. A survey of viruses, prokaryotes, protista, and fungi as they pertain to plants is presented.

GENERAL EDUCATION COURSE DESCRIPTIONS

10806197 • 4 credits

Microbiology

This course examines microbial structure, metabolism, genetics, growth, and the relationship between humans and microorganisms. Disease production, epidemiology, host defense mechanisms, and the medical impact of microbes in the environment, industry, and biotechnology are also addressed.

Prerequisite: General Anatomy & Physiology 10806177, General Biology 10806114, or Plant Biology 10806184 with a grade of "C" or better

31806311 • 2 credits

Applied Microbiology

Directs the learner's understanding of aseptic techniques, antimicrobial methods, specimen collection, preparation of cultures, body defenses against microorganisms, the infectious process, and the transmission of disease-causing organisms. Students learn such techniques as standard and transmission based precautions, sanitization, disinfection, sterilization, preparation of cultures, and microscopic slide preparations with simple staining and gram staining.

Prerequisites: Human Body in Health & Disease 10509102 or General Anatomy & Physiology 10806177

32806351 • 2 credits

Applied Science

Applied Science is a survey course in basic physics designed for students in the Automotive Technician, Diesel & Heavy Equipment Technician, and Machine Tool Technician programs. Topics are specially selected to provide students with basic support material for principles applied in the above listed programs. Topics to be covered include basic measurement skills; problem solving; motion; forces and energy transfer in linear and rotary systems; properties of solids, liquids, and gases; temperature and heat; and basic DC electricity.

Prerequisite: College Mathematics 10804107

809 SOCIAL SCIENCE

10809122 • 3 credits

Intro to American Government

Introduces American political processes and institutions. Focuses on rights

and responsibilities of citizens and the process of participatory democracy. Learners examine the complexity of the separation of powers and checks and balances. Explores the role of the media, interest groups, political parties, and public opinion in the political process. Also explores the role of state and national government in our federal system.

10809130 • 3 credits

Intro to Social Gerontology

Review of aging in respect to social roles and processes. Topics include history of aging, demographics, family relationships, social supports, economics, retirement, widowhood, poverty, and politics of aging.

10809131 • 3 credits

Death and Dying

Study of losses during the aging process beyond the physical and emotional process of death and dying. Societal and personal views of death, dying, and cultural practices are explored. Stages of bereavement and recommendations for healthy transitions in coping with loss are integrated into practical applications. Discussion of various topics related to death and dying include treatment for terminally ill people, euthanasia, and suicide.

10809132 • 3 credits

Generations & Diversity in Aging

Generational study of experience and history on the value and societal expectations of each generation. Also covered are diversity trends among older adults, including, but not limited to, race, ethnicity, culture, sexual orientation, and physical, cognitive, and developmental disabilities.

10809133 • 3 credits

Women and Aging

This course focuses on the process of aging for mid-age and late-life women from a sociological perspective. Topics include normal physiological changes, menopause, stereotypes of women and aging, demographics, aging beauty, late-life sexuality, widowhood, and health issues. This course concludes with female perspectives on death, dying, and bereavement.

10809143 • 3 credits

Microeconomics

This course examines the behavior of individual decision makers, primarily consumers and firms. Topics include choices of how much to consume and produce, the functioning of perfectly and imperfectly competitive markets, conditions under which markets may fail, and arguments for and against government intervention. The student applies the fundamental tools of economics to real-world problems.

10809144 • 3 credits

Macroeconomics

Macroeconomics is an introductory course. Basic social choices regarding economic systems, basic economic aggregates, fiscal policy, the banking system, monetary policy, and international trade are the principle topics discussed in the course. A balance is drawn between description, theory, analysis, and a critique of the institutions that characterize modern mixed-capitalist economies. Conflicting social goals, economic constraints, and environmental concerns provide the framework through which the macroeconomy is analyzed.

10809159 • 3 credits

Abnormal Psychology

The course surveys the essential features, possible causes, and assessment and treatment of the various types of abnormal behavior from the viewpoint of the major theoretical perspectives in the field of abnormal psychology. Students are introduced in the diagnosis system of the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV). In addition, the history of the psychology of abnormality is traced. Cultural and social perspectives in understanding and responding to abnormal behavior are explored, as well as current topics and issues within abnormal psychology. *Prerequisite: Intro to Psychology 10809198 with a grade of "C" or better.*

10809166 • 3 credits

Intro to Ethics: Theory & Application

This course provides a basic understanding of the theoretical foundations of ethical thought. Diverse ethical perspectives are used to analyze and compare relevant issues. Students critically evaluate individual, social,

and/or professional standards of behavior, and apply a systemic decision-making process to these situations.

10809172 • 3 credits

Introduction to Diversity Studies

Introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, and religion are explored.

10809188 • 3 credits

Developmental Psychology

This course studies of human development throughout the lifespan. This course explores developmental theory and research with an emphasis on the interactive nature of the biological, cognitive, and psychosocial changes that affect the individual from conception to death. Application activities and critical thinking skills enable students to gain an increased knowledge and understanding of themselves and others.

10809195 • 3 credits

Economics

This course is designed to give an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment, and global economic issues.

10809196 • 3 credits

Intro to Sociology

Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multiculturalism, and the five institutions of family, politics, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, and social organization.

10809198 • 3 credits

Intro to Psychology

This introductory course in psychology is a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings.

32809351 • 2 credits

Applied Human Relations

In an effort to better understand human behavior, students investigate topics designed to examine the challenges of coping with an ever-changing world of work and life. Students are given an opportunity to improve their understanding of themselves and others through discussion of topics such as dealing with stress, suicide, grief, defense mechanisms, perception, problem solving, nutrition and physical fitness, drug abuse, mental illness, self-concept and personality, emotions, attitudes, motivation, value clarification, work relationships, and family life styles.

INDIVIDUALIZED TECHNICAL STUDIES

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS)

Students currently employed and possessing a specific career objective that cannot be met by MSTC's existing degree programs can work with an MSTC counselor to custom design their own associate of applied science degree by combining approved courses from two or more MSTC areas of study with general education credits.

ONLINE COURSES

Take online courses on MSTC, home, or office computers that have access to the Internet. You must have basic computer literacy skills to be successful in online courses. Once you've registered for an online course, you'll receive a letter explaining how to access the course. Your instructor will contact you prior to the start of class with specific instructions. Online courses begin the first day of the semester and required assignments are completed by specific dates. Online courses are not self-paced. Online course registrations are not accepted after the first week of a semester.

For more information about online courses, visit our website at mstc.edu.



PERSONAL & PROFESSIONAL ENRICHMENT COURSES

Whether you want to develop or enhance skills for a career, keep current in your field, or just learn for the pleasure of personal enrichment, Mid-State Technical College has something for you to explore.

103 COMPUTER SOFTWARE

47103400 • 0.45 credits

Microcomputer Operations/Windows

Introduces students with little or no computer experience to the components of a computer system, computer software, and computer terminology. Develops skill in the use of a mouse; the control of window appearances; the use of Program Manager; the use of Windows control mechanisms such as menus, dialog boxes, and toolbars; the use of Help; and the use of File Manager to organize files. Completion recommended for enrollment in microcomputer software courses.

47103413 • 1 credit

Word-Beginning

Develops skill to create, modify, and save documents. Students will also delete and move blocks of text, as well as boldfacing, underlining, and lists. Search for text and spell checking are also covered. Popular word processing applications include generation and better management of letters, memos, and other forms of written documents. Completion of Microcomputer Operations/Windows 47103400 is recommended prior to enrolling in Word-Beginning.

47103414 • 1 credit

Word-Intermediate

Students will create columns, lists, indexes, footnotes, endnotes, and table of contents. Outlines, paragraph numbering, mail merges, sorts, macros, the thesaurus, and graphics are also covered. *Prerequisite: Word-Beginning 47103413*

47103423 • 1 credit

Excel-Beginning

Introduces students with little or no computer experience to the components of a computer system, computer software, and computer terminology. Develops skill in the use of a mouse; the control of window appearances; the use of Program Manager; the use of Windows control mechanisms such as menus, dialog boxes, and toolbars; the use of Help; and the use of File Manager to organize files. Completion of Microcomputer Operation/Windows

47103400 is recommended prior to enrolling in Excel-Beginning.

47103480 • 0.60 credits

Beginning Internet

Develops skill to create useful, appealing website presentations using Netscape Navigator Gold.

Prerequisite: Microcomputer Operations for Windows and/or Windows 95.

47103481 • 1 credit

Outlook-Beginning

Learn the basics of searching on the Web and email in this course. Completion of Microcomputer Operations/Windows 47103400 is recommended prior to enrolling in Outlook-Beginning.

47103490 • 1 credit

Microsoft Front Page

This course covers simple website development using Microsoft FrontPage. Students learn to create a new website, organize website components, create a web page, format a web page, add formatted text to a web page, add images (including animated GIF files) to a web page and create links to other web pages. Posting websites to a web server is also discussed.

47103498 • 1 credit

Using & Maintaining Tablet Devices

This course introduces the student to the proper use and maintenance of popular mobile tablet devices. Topics covered include device orientation, use of physical components, hardware and software settings, security settings, downloading and installing apps, using the camera, using the accelerometer and GPS and mapping capabilities, ecommerce with tablets, and correct methods for cleaning and care of the devices. Classes are comprised of lecture and hands-on learning exercises.

47103499 • 1 credit

Introduction to Digital Imaging Software

This course introduces the student in the use of point-and-shoot and the digital camera. Fundamentals of correct camera settings, photo editing, storage, and presentation are addressed. Students learn to think and express themselves in visual terms. Classes are comprised of

theory and presentation, plus indoor and outdoor photo shooting opportunities. Students need their own digital camera and a USB storage device with at least 8GB storage.

104 MARKETING

47104421 • 0.10 credits

Retail Theft Seminar

Targeted to owners, managers, and sales associates of retail operations. Learn the magnitude of retail theft, theft prevention methods, proper and effective methods of apprehension, and merchant rights and responsibilities.

47104442 • 0.30 credits

Selling Techniques

The skills required by individuals involved in the sale of merchandise and services on a one-to-one basis is the emphasis of this course.

47104470 • 0.80 credits

Life Insurance CLU

Prepares students to pass HS323 Certified Life Underwriters course and meets the 12-hour insurance continuing education requirement. Covers individual insurance products, insurance operations, and insurance regulation with emphasis on insurance policies available for personal needs of individuals and their use in financial planning.

47104480 • 1 credit

E-Commerce Principles

Participants learn how to incorporate their company's website into the overall advertising and marketing plan.

106 OFFICE SYSTEMS

47106420 • 0.15 credits

Secretarial Seminar

Designed for the secretary who can benefit from punctuation, grammar, spelling review; proofreading tips; letter styles update; typing efficiency tips; and postal regulations for business mail update.

47106426 • 0.30 credits

Business Telephone Skills

The course focuses on the critical skills required to use the telephone professionally. How to project a professional image, listen, take messages, handle problem callers, and other important telephone techniques are covered.

47106431 • 1 credit**Typing-Beginning**

Introduction to the keyboard, including letters, numbers, symbols and characters, and building of speed with control of practice materials, such as letters and reports.

47106457 • 1 credit**Business Writing Skills**

Grammar and punctuation skills required in preparing business letters, manuscripts, reports, and other business documents will be developed. Spelling is stressed.

47106462 • 0.60 credits**Graphics & Print Media**

This course develops skill to effectively create graphics and design publications. Students produce print media, and design and layout print jobs using the most appropriate software package for the job. Topics may include Dreamweaver, Illustrator, and Photoshop.

194 REAL ESTATE**47194450 • 1 credit****Appraiser Certification Contin. Ed.**

A variety of pertinent and current appraisal topics is reviewed to maintain the skill and knowledge of certified appraisers. Meets the continuing education requirement of certified appraisers.

196 SUPERVISORY MANAGEMENT**47196438 • 1.35 credits****Managing Quality Improvement Process**

A basic overview of the Quality Improvement Process is provided. Major contributors to quality improvement theory and practice is introduced. The components of a quality improvement process is reviewed, including systems thinking, quality focus, scientific approach, and teamwork.

47196440 • 0.40 credits**Managing Human Resources**

Current interview techniques and laws are reviewed to develop skill and assure conformance to laws. Participants have an opportunity to practice skills and receive coaching from an expert.

307 EARLY CHILDHOOD EDUCATION**47307404 • 0.30 credits****Workshop In Children's Literature**

Designed for teachers, day care aides, and parents in helping young children prepare for the art of reading. Includes identifying the importance books play in a child's life and learning the art of storytelling. Time is spent on making instructional tools, such as story cues, flannel board stories, and props, to demonstrate finger plays, poetry, and drama.

47307408 • 1 credit**Program Administration Day Care Personnel**

Development of skills in budgeting, accounting, funding, grant writing; skills in planning, hiring, supervising, implementing, and evaluating programs; staffing; skill of developing written policies; information on legal, regulatory, health, and safety responsibilities; information related to an administrator's relationship to parents, children, and the community.

47307413 • 0.50 credits**In-Home Child Care One & Two**

Covers the basic child development concepts, nutrition, and positive discipline techniques for small children. This class meets the certification requirements for all persons providing certified child care through the Department of Health and Social Services.

47307416 • 1 credit**Family Day Care Providers**

For persons who want to become licensed Family Day Care Providers. Covers information on regulations and licensing procedures for family day care; how to start a family day care business; child growth and development; health and safety; nutrition; organizing daily activities; child's behavior patterns; positive interaction; and parent/provider, provider/child, and public relations.

47307418 • 0.25 credits**Child Care Creative Workshop**

Students make items to be used for art projects, storytelling, music, circle time, discussion, and creative dramatics.

47307420 • 0.50 credits**Day Care Staff Seminar**

This course provides an overview of problems associated with head lice and childhood obesity and provides management strategies for early childhood education and care providers.

47307421 • 0.40 credits**Infant Care For Day Care Workers**

Fifteen hours for those people who are working with children from birth to 2 years of age in day care centers or family day care. Instruction in nutrition, growth and development, health, hygiene, and safety are covered. General public is welcome.

47307430 • 1 credit**Intro to the Child Care Profession**

Provides entry-level knowledge and skills for individuals as they begin to or intend to care for children in group and family child care. Learners explore rules and regulations governing group and family child care and the responsibilities of childcare providers. This course fulfills introductory non-credit course requirements as specified in HFS 45 and 46 for family and group day care in the Wisconsin Administrative Code.

47307431 • 1 credit**Skills and Strategies for the Child Care Teacher**

Focuses on skills and strategies for the child care teacher with emphasis on selecting developmentally appropriate activities, planning lessons, and facilitating children's activities. This course meets Wisconsin's requirements for Child Care Teacher.

Prerequisite: Introduction to the Child Care Profession 47307430

47307433 • 0.40 credits**Fundamentals of Infant & Toddler Care**

Provides requirements and practices for entry-level childcare providers who are working with or will work with, infants and toddlers. Course fulfills requirements as specified by Wisconsin's State Law. Wisconsin day care regulations require that individuals working with infants and toddlers must complete infant and toddler training within six months of assuming a position.

Prerequisite: Introduction to the Child Care Profession 47307430

PERSONAL & PROFESSIONAL ENRICHMENT COURSES

47307434 • 0.20 credits

Fundamentals of Family Child Care

Provides essential information about establishing family child care that is in accordance with Wisconsin state law.

47307435 • 0.50 credits

Introduction to Child Care Profession-Certified

Provides entry-level knowledge and skills for individuals as they begin to or intend to care for children in group or family child care. Learners explore rules and regulations governing group and family child care and the responsibilities of child care providers. This course is "Module A" of the state's child care curriculum and is one of two courses required for individuals seeking county child care certification.

47307436 • 1.15 credits

Introduction to the Child Care Profession 2013

Provides entry-level knowledge and skills for individuals as they begin to, or intend to, care for children in group or family child care. Learners explore rules and regulations governing group and family child care and the responsibilities of child care providers. This course fulfills introductory non-credit course requirements as specified in DCF Chapters 250 and 251 for family and group child care in Wisconsin's Administrative Code.

311 RESPONSIBLE BEVERAGE

47311400 • 0.10 credits

Responsible Beverage Service

Designed to educate owners/operators and employees of the food and beverage industry on responsible beverage service. The course fulfills Wisconsin statutes which requires new applicants, bartenders, and operators to complete training before a license is issued. A certificate is awarded upon satisfactory completion of the course.

413 ELECTRICITY

47413422 • 0.15 credits

The Basics of Fire Alarm Systems

This six-hour course covers elements of the National Electrical Code (NEC – NFPA 70), the National Fire Alarm Code (NFPA 72), and the International Building Code (IBC) as adopted by the State of Wisconsin. Information obtained from this course will teach

installers, designers, and inspectors what basic items are required by various codes in order to make installations of these life safety systems "code compliant." Included in the information are Accessibility and NFPA requirements for initiating and notification appliances, determining when the Building Code requires a system installation, Uniform Dwelling Code requirements for smoke detectors, and National Electrical Code installation requirements.

47413440 • 0.15 credits

National Electrical Code Changes

This six-hour seminar will provide a review of all major changes to the National Electrical Code, 2011 edition. Changes to the Wisconsin Administrative Code, SPS 316, will also be discussed. This seminar will provide a concise overview of the nature of the changes and assist participants on how to handle the code changes.

47413482 • 0.45 credits

Farmstead Rewiring

This 18-hour course is for rural electricians (or their employees) who do farm wiring and rewiring as a part of their existing business. The primary emphasis is on safety and efficient use of electrical energy. The content is applicable to any farming operation, but the focus is primarily on dairy operations. The course is designed to cover the unique challenges of working on farms and around animals, review of electrical fundamentals, applicable state and national electrical codes, 3 and 4 wire systems, bonding and grounding, installation of lighting and equipment, planning the work, and development of a rewiring proposal.

47413492 • 0.90 credits

Electricity I For Tradesmen

Basic electricity covering Ohm's Law, electrical circuits, storage batteries, magnetism, and the basic measuring instruments such as ammeters and ohm meters is studied. Lab time is provided for work on component parts.

47413493 • 1.20 credits

National Electrical Code Calculations

This course is designed to teach the students the proper wire sizing for power distribution to motors, industrial equipment, phase converters, transformers, and raceway configurations.

47413494 • 0.75 credits

National Electrical Code Update

Course covers revisions in the latest National Electrical Code. Includes new articles on equipment, new regulation, and changes in the existing code regulations.

47413495 • 0.40 credits

Industrial Computing

This course is designed for the user of DOS in an industrial environment. Topics concerning programming, configuring, and maintenance of personal computers are the essential items of this course.

47413496 • 0.60 credits

Master Electrician Study Guide

This intense course covers major electrical topics ranging from basic electrical theory to complicated load calculations. All of the questions and formulas required to be learned in preparation to take the State of Wisconsin's Master Electrician's Certification test are included in this course. The last class is a three-hour practice exam. This course is suitable for preparation to take either the Journeyman's or Master's exams and is also state-certified for continuing education credits for all electrician and commercial electrical inspector categories.

47413498 • 0.20 credits

National Electric Code for PV Systems

This course covers the requirements of the National Electrical Code Article 690. We will review PV module features and the system circuitry. Conductor and overcurrent sizing are calculated. Grounding of the D.C. and A.C. system components are covered. Disconnects and panel boards that are needed will be discussed. D.C. loading of the system will be reviewed. Safe use and maintenance of batteries are covered. There are tours by faculty to examine the PV systems and recognize the NEC requirements with emphasis on Article 690.

47413499 • 0.15 credits

National Electric Code Calculations

Emphasis will be placed on utilizing the 2005 edition of the National Electrical Code as the primary resource for performing calculations necessary for electrical installations. Review and analyze important electrical calculations such as voltage drop, branch circuit sizing, motor circuit calculations, conductor ampacity adjustments, various load calculations, overcurrent protection

sizing, box and conduit fill capacities and grounding conductor sizing. We will be using the Master Electrician software developed by Snapz. Only questions that are a calculation of some type will be addressed.

419 INDUSTRIAL HYDRAULICS-PNEUMATICS

47419401 • 0.30 credits

Basic Hydraulics

Basic hydraulic principles of pumps, actuators, accumulators, valves, reservoirs and conductors. Schematic drawing interpretation will be covered.

420 MACHINE SHOP

47420450 • 0.15 credits

Drill Bit Sharpening

This course will explain the importance of proper use and care of twist drills as it relates to selection, feeds and speeds, cutting fluids, and sharpening. Emphasis will be placed on hands-on sharpening and machine sharpening of twist drills.

47420456 • 1 credit

Machine Shop I

Covers machine shop practices, including fundamental operations of the lathe, drill press, band saw, and bench grinder. Layout procedures and machining techniques and instruments as related to machine shop practices are covered.

47420459 • 1 credit

Machine Shop II

Covers knowledge and manipulative skills essential for advanced lathe work, radial drilling, cylinder grinding, shaper operations, milling operations, including attachments heat treating and tool and cutter grinding.

Prerequisite: Machine Shop I 47420457

427 PLUMBING

47427488 • 0.10 credits

SAGE Overview for Plumbers

Overview of SAGE-identified "green" applications affecting the plumbing trade.

47427499 • 0.20 credits

Plumbing Prep Course Test-Out

The DWD-Bureau of Apprenticeship Standards and the State Plumbing Apprenticeship Advisory Committee have determined that effective

January 1, 2012, all apprentices who have not written their state Journeyworker (JW) licensure exam are now required to either complete a 54-hour code review class or successfully complete a test-out exam. Apprentices who opt to take the test-out exam must score 75% or greater to successfully pass. Apprentices who do not receive a score of 75% or greater are then required to take the 54-hour classroom review class 47427497 before taking the plumbing licensure exam. This test-out exam, is currently eight hours in length and can be offered either as a course 47427499 or as a proctored exam in a testing center.

455 SUPERVISION-MANAGEMENT

47455455 • 0.25 credits

Transition to Trainer

Transition to trainer is designed for apprentices who are approaching the end of their apprenticeship, as well as for journey level workers, who are training or may train, future apprentices.

502 BARBERING/COSMETOLOGY

47502185 • 0.10 credits

Cosmetology Continuing Education: Licensure Update

This update course, developed in 2013, covers new laws governing the cosmetology profession and establishments, as well as safety, sanitation, and infection control. The course fulfills the Wisconsin Department of Safety and Professional Services' four hours of continuing education licensure renewal requirements for 2015. Cosmetology licensed practitioners, managers, and salon owners are the intended audience for this update.

47502484 • 0.15 credits

Law, Safety, & Sanitation

This course provides participants with an exploration of the barbering and cosmetology administrative code and statutes in the State of Wisconsin. It focuses on locating and applying current laws and rules for barbers, cosmetologists, and estheticians. In addition, it addresses the concerns, dangers, and procedures relating to sanitation, safety, and health in barbering and cosmetology establishments. The

six hours of training meet the continuing education requirements for Laws and Rules (two-hours) and Safety and Sanitation (four-hours) established for license renewal by the Department of Regulation and Licensing.

503 FIRE TECHNOLOGY

47503403 • 0.10 credits

Awareness Level Haz-Mat/Bioterrorism

This course is designed to familiarize first responders with the knowledge necessary to recognize hazardous materials, and includes substances used in terrorism. Methods and sources for recognition are dealt with from a preventative and protective perspective. Persons taking this course will not usually have responsibility for handling materials in question. Students will be able to recognize hazardous material incidents and protective measures to be taken to protect both the public and themselves.

47503405 • 0.10 credits

Awareness Level Haz-Mat/Bioterrorism-Instructor Train-The-Trainer

This course is designed for instructors and community trainers with a commitment to train responders and officials in their communities in the basic awareness level HAZ-MAT/Bio-Terrorism skills. Curriculum is mandated through Wisconsin Emergency Management.

47503410 • 0.15 credits

ICS-100 Introduction to Incident Command System

National Incident Management System approved Incident Command System curriculum, including organization and staffing, organizing for incidents or events, incident resource management, air operations, and incident and event planning. ICS 100, Introduction to the Incident Command System, introduces the Incident Command System (ICS), and provides the foundation for higher level ICS training. This course describes the history, features and principles, and organizational structure of the Incident Command System. It also explains the relationship between ICS and the National Incident Management System (NIMS).

47503411 • 0.15 credits

ICS-200 Basic Incident Command System

National Incident Management System approved Incident Command System curriculum, including organization and

PERSONAL & PROFESSIONAL ENRICHMENT COURSES

staffing, organizing for incidents or events, incident resource management, air operations, and incident and event planning. ICS 200 is designed to enable personnel to operate efficiently during an incident or event within the Incident Command System (ICS). ICS-200 provides training on and resources for personnel who are likely to assume a supervisory position within the ICS.
Prerequisite: Participants should complete ICS 100 and ICS 700 prior to participation in this course

47503412 • 0.40 credits **ICS-300 Intermediate Incident Command System**

National Incident Management System approved Incident Command System curriculum, including organization and staffing, organizing for incidents or events, incident resource management, air operations, and incident and event planning. This information is targeted for middle management, strike team leaders, task force leaders, unit leaders, division/group supervisors, branch directors, and multi-agency coordination system/emergency operations center staff.
Prerequisite: Participants should complete ICS 100 and ICS 700 prior to participation in this course

47503413 • 0.40 credits **ICS-400 Advanced Incident Command System**

Advanced course that explains command and general staff, unified command, major incident command, and area command for the ICS system. This course is for agency administrators, department heads, emergency managers, area commanders, and multi-agency coordination system/emergency operations center representatives.

47503414 • 0.05 credits **ICS-402 Incident Command System for Executives**

Basic course for executives that overviews principles and features of ICS, organization, incident facilities, incident resources, and common responsibilities within the incident command system.

47503424 • 0.30 credits **Fire Training Seminar III**

This is a specialized training for emergency response personnel with curriculum developed by WEM for interstate training. This training allows multiple agencies to coordinate to meet the needs of the county during a disaster.

47503426 • 0.20 credits **Confined Space Refresher**

This class is focused to update the professional rescuer on recent changes and techniques for workplace and community confined-space incidents. It addresses the requirements of NFPA 1006, Standard for Rescue Technician Professional Qualifications, NFPA 1670, Standard on Operations and Training for Technical Rescue Incidents, as well as the OSHA Permit Required Confined Space Standard, 29 CFR 1910.146.
Prerequisite: Participant must have completed the required confined space training

47503429 • 0.30 credits **Spring Fire School (RIT training)**

Basic Rapid Intervention is a 12-hour course designed to meet the needs of the ever changing fire service. Students will be given the necessary background knowledge, guidance, and training for implementing rapid intervention team (RIT) on the dynamic fireground. The course will include lecture on the theory of RIT, managing the Mayday, RIT's role in the incident command system, accountability, and standards and regulations of RIT operations. Intense physical practical scenarios aimed at methods of searching, assessing victims, airway management, and extrication of down firefighter from a hostile environment will be conducted. Full SCBA / PPE is required for this course.
Prerequisite: Participant must be firefighter affiliated with a fire department to participate in this course.

47503430 • 0.75 credits **Advanced Leadership Part 1**

This course is intended to build on the content presented in Fire Officer I and II certification courses. Students taking this course should have completed Fire Officer I & II or had at least two years of experience as a fire officer. The purpose of this class is to motivate and inspire current and aspiring fire officers who seek additional leadership beyond the scope of WTCS current certification capabilities. Content includes the importance of leadership, strategic planning, professional development, effective training programs, importance of safety, and dealing with diversity within the department.
Prerequisites: Fire Officer I and II certification courses or experience as a fire officer for at least two years

47503433 • 0.75 credits **Advanced Leadership Part 2**

This course is intended to build on the content presented in Advanced Leadership Part 1. Content covered will include ethics, politics, finance, effective communication, public education, wellness, and strategic operations. Students will work in groups to present station plans that could be utilized in their own departments. Incident command and conflict resolution scenarios will be practiced.
Prerequisite: Advanced Leadership Part 1 47503430

47503436 • 1 credit **Emergency Services Instructor I**

Prerequisite: Those persons seeking to certify as a Fire Instructor I must be a certified Firefighter II

47503440 • 2.40 credits **Fire Fighter I**

This course is designed to provide Entry Level Fire Fighter candidates with information needed to comply with minimum fire fighter training requirements, as well as provide the Fire Fighter 1 candidate with additional information needed to meet job performance requirements (JPRs) in National Fire Protection Association (NFPA) 1001, Standard for Fire Fighter Professional Qualifications, Chapter 3.

47503444 • 0.40 credits **Strategies and Tactics for Initial Company Officers**

This class will assist the company officer in the identification of strategies and tactics for implementation on the fire ground. The course is designed for company officers. Course content will cover both engine and ladder companies, and their interaction. The core of the course is to teach tactics that would be employed by company officers responding to a fire. Heavy emphasis will be on Incident Command (NIMS). Building construction, size up, resources, water supply, and risk management on the fire ground will be covered.

Prerequisite: It is recommended (although not required) that class participants serve in the capacity of company officer while enrolled in this class. Participants should be familiar with Incident Command (NIMS) prior to enrolling in the course

47503446 • 0.40 credits
Ice and Cold Water Rescue:
Operations/Technician

To meet NFPA standards, the student must meet knowledge standards pertaining to ice structure, effects of hypothermia, safety, general operational knowledge of on-shore rescue and advanced rescue techniques (but no on-ice skill), and other topics to meet the awareness standard. To meet the operational/technician requirements, the student will participate in specific training in on-shore and on-ice rescues (the "go" rescues) and must satisfactorily perform the necessary skills in ice rescue. *Prerequisite: Participants should have a level of comfort in the water*

47503452 • 0.10 credits
Ropes Rescue Awareness

This is an awareness-level course to prepare those responders working with Ropes Rescue incidents with the general information and situation that will occur in this type of response. Maryland Fire and Rescue Curriculum is the basis for this training. Students should be emergency response personnel for the city, township, county, or state.

47503453 • 1 credit
Ropes Rescue Operations

This is an operations-level course to prepare those responders working with Heavy Rescue incidents to be able to perform ropes rescue in an emergency response situation. Working with ropes, knots, carries, lifts, and supportive equipment is included. Maryland Fire and Rescue Curriculum is the basis for this training. Students should be emergency response personnel for the city, township, county, or state. Students must have training in ropes rescue at the awareness level.

47503455 • 1.35 credits
Ropes Rescue Technician

This is a technician-level course intended to be advanced specialized training for responders in ropes rescue. The general, more-basic operations to the more technically advanced systems and situations of ropes rescue will be addressed. Maryland Fire and Rescue Curriculum is the basis for this training. Students should be emergency response personnel for the city, township, county, or state. Taskforce personnel looking to specialize in ropes rescue should take this course.

47503470 • 0.10 credits
Confined Space Awareness

This is an awareness-level class for rescue responders that have completed at least ropes rescue awareness. Participants must be members of a rescue response team needing confined space training. Only the more general concepts related to confined space rescue, the equipment needed, and the terminology utilized will be addressed. Must have had at least ropes rescue awareness training and be working with a rescue response team or fire department.

47503472 • 1 credit
Trench Rescue Operations

This is an operations/technician-level class for rescue responders that have completed at least ropes rescue operations. Participants must be members of a rescue response team needing trench rescue training. Specific guidelines and specialized techniques for dealing with trench rescue will be taught and practiced.

Corequisite: Must have had at least Ropes Rescue Operations 47503453 training and be working with a rescue response team or fire department

47503473 • 0.15 credits
Practical Skills Review

This class will allow students to practice firefighting evolutions at the MSTC/MFRD training facility in advance of a state certification exam. Most basic firefighting skills will be available for review.

Prerequisite: Participant must have completed the course for which the practical skills review pertains (@ FFI Certification or FF2 Certification) within the previous 24 months of enrollment

47503474 • 0.40 credits
Advanced Rapid Intervention Training

Firefighter Advanced Rapid Intervention is a 16-hour course designed for firefighters with "moderate" level experience in rapid intervention techniques and firefighter survival. The goal is to update the students on issues and techniques related to rapid intervention. In addition to the updates, students will do practical work in rapid intervention scenarios of increasing difficulty. These are designed to challenge the students mind, teamwork, and skills. Advanced Rapid Intervention is geared to the continuing adult learner who is currently a professional career or professional volunteer firefighter.

These individuals can be just starting fire

service or they can be seasoned veterans. Participant must have completed the Rapid Intervention Training course prior to participation in this course.

47503475 • 0.10 credits
EVOC Refresher for Fire/EMS

Classroom education based on the following programs: Emergency Vehicle Response Safety (EVRS), Dynamics of Emergency Vehicle Response (DEVOR), Safety and Risk Management, and Wisconsin emergency vehicle laws. The class will address relevant safety issues (e.g., intersections and rollovers, private vehicle use), department SOPs/SOGs, and new equipment/technology.

Prerequisite: Participant must be affiliated with a fire department or EMS agency to participate in this course. In addition, the participant should have successfully completed an EVOC for Fire/EMS Personnel or Driver/Operator Pumper

47503476 • 0.40 credits
EVOC for Fire/EMS Personnel

This course prepares the students to operate vehicles safely so that vehicle, equipment, crew, and patients are delivered safely and efficiently both to and from the emergency scene. Topics covered include: identifying the problems associated with emergency vehicle driving; emphasizing safety and professionalism for responders and the public; reviewing federal, state and local laws and the legal aspects for both department vehicles, as well as privately owned vehicles (POVs); and review the long-term impact of an accident and the civil, criminal, and punitive aspects associated for both the driver and the department when found negligent of causing an accident. Students will learn how physical forces affect how various emergency vehicles act and handle in certain conditions, how to perform proper vehicle inspections and maintenance, and how department GOGs and SOPs provide members a set of policies and procedures that are consistent. Students will spend one day reviewing and demonstrating proper driving skills on a closed controlled road course utilizing proper backing, turning, and stopping while keeping the vehicle under control. *Prerequisite: Participant must be affiliated with either a fire department or EMS agency*

PERSONAL & PROFESSIONAL ENRICHMENT COURSES

47503478 • 0.40 credits **Confined Space in Industry**

Confined Space in Industry is a 16-hour course designed to meet the requirements of WI Com. Chapter 32 and OSHA (1910.146). Students will learn to recognize, evaluate, and prevent safety and health hazards associated with confined-space entry, as well as be prepared to manage emergencies. This combined lecture and hands-on skills training enforces the standards related to confined-space entry. Topics to be covered include the development of a confined-space program, entry procedures, personal protective equipment, ventilation techniques, lockout/tagout, air monitor testing, and non-entry rescue operations.

47503479 • 0.10 credits **Specialized Fire Topics**

This class is designed to allow topic-specific fire training under the title of one course. Within this course a sub set of fire fighter specific training will be addressed. All training will be conducted to meet the guidelines of NFPA standards and be taught by IFSAC-certified fire instructors.
Prerequisite: Participants must be affiliated with a fire department to enroll in this course

47503480 • 0.10 credits **Positive Pressure Attack: Basic**

This basic course presents a way firefighters can conduct safe and effective ventilation that can be accomplished in time to benefit firefighters and victims. PPA works in new buildings and old, can be applied to a wide variety of situations, and does not require special staffing or expensive equipment. This lecture-only course does not include fire attack.

47503481 • 1 credit **N337: Command & General Staff**

This week-long course focuses on high-risk fire and rescue incidents that include high life hazard, multiple exposure, and unusual occupancy risk considerations. Students are introduced to advanced applications in the Incident Command System (ICS), command and control, decision making, strategic and tactical considerations, pre-incident preparation, documentation, and post-incident analysis. Several simulations and case studies are used to depict

and review incidents in various types of target hazards.

Prerequisite: Participants must have completed ICS 100, 200, 300, 400, 700, and 800 prior to enrollment in this course

47503482 • 0.20 credits **Vehicle Extrication Techniques**

The purpose of this class is to create an awareness of new challenges and dangers associated with new vehicle construction when applied to motor vehicle crashes. Emphasis of the class will be to establish guidelines to follow when assessing vehicles for extrication and to perform extrication techniques relative to new vehicle construction.
Prerequisite: Participant must have an introductory-level awareness of vehicle extrication. Familiarity and prior use with extrication tools and cribbing is essential.

47503483 • 0.20 credits **Hazardous Materials-Refresher**

This class is focused to update the professional hazardous material responder on recent changes and techniques for use when responding to a hazardous material incident. The course will include both lecture and practical skill review.
Prerequisite: Participants must have completed Hazardous Material Operations or Hazardous Material Technicians to enroll in this course

47503484 • 0.40 credits **Incident Safety Officer**

This course examines the safety officer's role at emergency responses. A specific focus on operations within an Incident Command System (ICS) as a safety officer is a main theme. Response to all-hazards types of situations will be emphasized. Individuals who have a safety officer responsibility at emergency operation situations. Persons attending this course should have a working knowledge of ICS as taught by NFA, building construction principles, hazardous materials management, applicable NFPA guidelines, and federal regulations.
Prerequisite: Participants must be a part of a fire department or other emergency services agency to enroll in this course

47503485 • 0.75 credits **Fire Leadership – Part I**

This premise of this course is leadership but customized for fire service officers at a level between Fire Officer I and Fire Officer II.
Prerequisite: Participants must be a part

of a fire department or other emergency services agency to enroll in this course. Students should have completed Fire Officer 1 prior to enrollment or have experience as a fire officer

47503486 • 0.40 credits **Vehicle Extrication: Basic**

This course provides the learner with an awareness level to the challenges and dangers associated with vehicle extrication. Emphasis of this class will be to provide an overview of the guidelines to follow when assessing vehicles for extrication. In addition, participants will have the opportunity to perform extrication techniques under the direct supervision of the instructor. This course focuses on basic skill development, with a small portion focused on new vehicle construction.

47503710 • 1.50 credits **Entry-Level Firefighter (60 hours)**

This class meets the state requirement established in Comm 30 for a new firefighter. Included in the course content are the JPR's necessary to prepare the learner to serve as a firefighter in the State of Wisconsin. Students must complete a live burn as part of course completion. If a student seeks Firefighter I certification, they would need to complete course 47-503-721.

47503720 • 2.40 credits **Combined FF I Certified (96 hours)**

This course is designed to provide the entry-level firefighter candidate with the information needed to comply with minimum firefighter training requirements as well as provide the Firefighter 1 candidate with additional information needed to meet job performance requirements (JPRs) in National Fire Protection Association (NFPA) 1001, Standard for Fire Fighter Professional Qualifications, Chapter 3.

47503721 • 0.90 **Firefighter I (36 hour)**

This 36-hour class prepares the student for the state written and practical skill certification exam for Firefighter 1. Fees are paid by the state for members of fire departments.

Prerequisite: Successful completion of Entry-Level Firefighter 47503710

47503730 • 1.05 credits **Firefighter II Certification**

This course prepares participants to be able to perform firefighting functions at an advanced nationally-recognized level

under general supervision. This course, when taken subsequent to completion of the Firefighter I course, is designed to provide Firefighter II candidates with information needed to meet job performance requirements (JPRs) in National Fire Protection Association (NFPA) 1001, Standard for Fire Fighter Professional Qualifications, Chapter 4. *Prerequisite: Firefighter I certification*

47503740 • 0.75 credits

Entry Level D/O Pumper (30 hour)

This course introduces the participant to the basic knowledge and skills necessary to perform fire apparatus driving and pumping duties for their respective fire departments. The targeted audience is individuals who expect to be appointed or have recently been appointed to driver/operator – pumper duties on their respective departments. This course is designed to provide the new driver operator pumper with the information needed to comply with the minimum pumper operator training requirements as specified in Comm 30.08, Employment Standards (2) [3-3.3] of Wisconsin Administrative Code, Dept. of Commerce, Chapter 30, Fire Dept. Safety and Health.

Prerequisite: The student must be affiliated with a fire department to participate in this course. In addition, students will need to have access to a pumper for classroom activities

47503743 • 1.65 credits

Driver / Operator Pumper – Certified

This 66-hour class prepares the participant to be able to perform fire apparatus maintenance, driving, positioning, operating/pumping, and testing functions at a minimum nationally-recognized level. This course meets the job performance requirements (JPR's) 1002, Standard for Fire Apparatus Driver/Operator Professional Qualifications, Chapter 2 and 3. They are based on the International Fire Service Training Association (IFSTA) Pumping Apparatus Driver/Operator handbook, 1st Edition curriculum.

Prerequisite: Participant must have achieved the level of Firefighter 1 certification prior to being eligible for Driver/Operator Pumper certification.

47503747 • 0.90 credits

Certified Driver Operator – Aerial

This class meets the requirements for Driver/Operator-Aerial certification training based upon the International

Fire Service Training Association (IFSTA). *Prerequisite: Participant must be a certified Driver/Operator Pumper prior to entry into this course.*

47503750 • 1.50 credits

Fire Inspector (Cert) - 60 hour

This class prepares the student to conduct basic fire inspections and apply codes and standards. This course informs the fire inspector candidate of the minimum job performance requirements for Wisconsin certification. The Wisconsin Job Requirements conform to those found in the National Fire Protection Association (NFPA) 1031 Standard for Professional Qualifications for Fire Inspector and Plan Examiner, 1998 Edition. Successful completion of the course allows students to take the certification exam for Fire Inspector.

47503760 • 0.75 credits

Entry-Level Fire Officer

This is an entry-level fire officer course intended for the firefighter currently working for a volunteer or career department who wishes to acquire additional training in officer duties. This is an entry-level course and does not result in certification. Students wishing to pursue Fire Officer certification will need to take the Fire Officer 1 course in its entirety, even if this course is completed. *Prerequisite: Entry-Level Firefighter (60-hours)*

47503763 • 1.50 credits

Certified Fire Officer I

This is a certified fire officer course intended for the firefighter seeking certification as a Fire Officer. Participants should either be an officer on their respective department or be seeking fire officer duties. This is not a tactics class; rather a class which prepares the student for day to day officer operations at a fire department. Upon successful completion of the course, students desiring certification as a fire officer can participate in both the written and practical certification exam. *Prerequisite: Firefighter II*

47503764 • 0.75 credits

Certified Fire Officer II

This 30-hour course prepares the Certified Fire Officer I to perform the Fire Fighting Supervisor / Manager Functions at a nationally-recognized level. The targeted audience is individuals who desire or are required to increase their knowledge and skills

to progress to Fire Officer II level. This course is designed to provide the Fire Officer II candidate with the information needed to meet the Job Performance Requirements (JPR's) in national Fire Protection Association (NFPA) 1021, standard for Fire Officer Professional Qualifications, chapter 3.

Prerequisites: Participants must be affiliated with a fire department or other protective service organization. The intended audience is those persons who have command-level responsibility within their organization. Fire Officer I Certification 47503763

47503780 • 0.40 credits

Haz-Mat Operations

This 16-hour course prepares the participant to perform the minimum hazardous material incident operations skills associated with firefighting functions at an advanced nationally-recognized level under general supervision. The targeted audience is individuals who have completed, or are in the process of completing, the Firefighter I Job Performance Requirements (JPRs) in NFPA 1001 for certification to the Wisconsin Fire Fighter I level. This course is also available to members of the emergency medical services, law enforcement, and other industrial employees listed under 29CFR 1910. This course is designed to provide the Firefighter I candidate with the information needed to meet the JPRs in Chapter 5, Core Competencies for Operations Level Responders, Section 6.2, and Section 6.6., Mission-Specific Competencies: Product Control, of NFPA 472. The participant must also take the Firefighter I course in order to meet the remainder of the NFPA Firefighter I JPRs to prepare for certification to the Fire Fighter I level. A written exam is available to participants who successfully complete this course. A participant who completes this course and wishes to be certified at the Firefighter I must successfully pass the written portion of the Hazardous Materials Operations exam. Participants have two years from the completion of the course to take the exam.

47503785 • 1 credit

Haz-Mat Technician

This course is designed to bring all participants to a higher level of understanding, to enable them to work

PERSONAL & PROFESSIONAL ENRICHMENT COURSES

together throughout the course to assess, develop, and implement an action plan to mitigate a hazardous substance release. Content will include air monitoring and exercise, decontamination, emergency response simulations, emergency response SOPs, hazard recognition and identification exercises, incident command, personal protective equipment, respiratory protection exercise, spill control, toxicology, medical monitoring, and heat stress. The content is based upon NFPA 472, Professional Competencies for Response to Hazardous Material Incidents, Chapters 2, 3, & 4 and OSHA 1920.120, On-Ste and Off-Site Emergency Response.

Prerequisite: Students should be HM Operations level prior to enrolling in this course or receive permission from the instructor

504 CRIMINAL JUSTICE

47504402 • 0.20 credits Electronic Control Devices

Students will learn the theory and receive the practical training necessary to effectively safely and effectively operate an electronic control device (ECD). You will identify how ECDs affect the sensory and motor functions of a combative subject, learn about the device itself, and how to deploy the ECD in accordance with acceptable standards. The course will include a will review of the Disturbance Resolution Model and explain how ECDs and Oleoresin Capsicum (OC), as control devices, fall under Control Alternative Tactics/Tools. The course will address "medically significant behaviors" that an officer may witness and how best to respond to them.

47504426 • 0.60 credits Corrections Officer Emergency Response Team

Presents theory, psychomotor skill development, techniques, and simulation of correctional emergency response team tactics. Prepares inservice officers to implement team-based tactical responses in emergency situations.

47504427 • 0.40 credits Principles of Subject Control Recertification

Reviews theory, psychomotor skill development, techniques, and simulation of principles of subject control for

corrections personnel. Prepares inservice officers to implement principles of subject control in duty assignments.

47504430 • 0.80 credits Criminal Justice instructor Development Course

Prepares criminal justice and law enforcement instructor candidates to create a learning environment that supports learners and results in the achievement of designated learning outcomes. Emphasizes teaching and learning techniques that promote active learning, support learners with a variety of learning preferences and needs, and generate continuous improvement in teaching and learning. Unit A of this course is the same as Unit A in Teaching Methods #52 and candidates who complete this course will be given credit for Unit A of Teaching Methods #52 if they come into the Wisconsin Technical College System (WTCS). Unit B and C are designed specifically for criminal justice and law enforcement instructor candidates. Completion of either Part A or Part B of the Law Enforcement Instructor Development Course meet the 10-hour renewal requirements for certified instructors holding Part Time Approval certification in our system. For instructors holding Part Time (26 hours) Provisional or Provisional certification, completion of the course will be equivalent to completing 1/3 of Education Requirement #52-Teaching Methods.

Prerequisite for law enforcement officers is law enforcement certification, three years of occupational experience, and at least 60 college credits. Prerequisite for correctional officers is correctional officer certification, three years of occupational experience, and a high school or equivalent diploma

47504455 • 0.40 credits Standardized Field Sobriety Testing Instructor Development Course

Prepares law enforcement professionals to effectively administer and instruct in the Standardized Field Sobriety Testing training program. Emphasizes teaching and learning techniques that promote active learning, support learners with a variety of learning preferences and needs, and generate continuous improvement in teaching and learning. Teaching Methods #52 or Criminal Justice Instructor Development Course 47504430. Satisfactory completion of SFST training, based on the National

Highway Traffic Safety Administration (NHTSA) SFST curriculum or its equivalent. Participation in two "live" or videotaped volunteer drinking subject practice sessions (alcohol workshops) during which he/she personally administered the horizontal gaze nystagmus, walk and turn, and one-leg-stand test to persons who have consumed alcohol or has demonstrated ongoing competency in conducting SFST testing in the field.

47504456 • 0.50 credits Standardized Field Sobriety Testing Master Instructor Trainer

MIT participants will demonstrate master instructional abilities by presenting a portion of the SFST Train-the-Trainer course. MIT candidates will be assigned a competency from the National Highway Traffic Safety Administration (NHTSA) SFST Train-the-Trainer course to present to the class, incorporating any insights from the observation/critique of the master instructor teaching this course and best practices from past experience. Certified Law Enforcement Standards Board instructor, current with update requirements. Documented subject-matter expertise. At least five years experience as a criminal justice practitioner. Served as an instructor in a minimum of three (3) SFST practitioner or instructor courses. Has an associate degree or 60 college credits, unless certified as a Wisconsin law enforcement officer prior to 2/1993. Successful completion of the NHTSA approved SFST curriculum or its equivalent. Experience in administering SFST's as well as providing testimony in court in the area of Operating While Intoxicated (OWI) enforcement.

47504463 • 0.80 credits OMVWI/Introduction to Drugged Driving

The overall purpose of this portion of the Wisconsin law enforcement officer recruit training course is to provide officers with detailed information on procedures for conducting impaired driving arrests in Wisconsin and introduces law enforcement officers to drugs that impair driving. The first half of this session includes information on articulating the basis for impaired driving arrests while conforming with state and local enforcement and prosecution concerns. The second half of this session includes a

four-hour NHTSA approved introduction session on "Drugs that Impair." The "Introduction to Drugs that Impair" session does not qualify an officer to serve as a "Drug Recognition Expert" (DRE).

47504465 • 0.80 credits

SFST With Drugs That Impair Driving

Standardized field sobriety testing (SFST) is a set of standardized methods used to determine if an operator of a motor vehicle is intoxicated. The testing includes evaluation of psychomotor skills through tests such as walk-and-turn and one-leg stand. Another element is horizontal gaze nystagmus (HGN). HGN is the involuntary eye movement of an intoxicated individual. The Drugs that Impair Driving (DID) portion prepares the student to define the term "drug" in the context of operating while intoxicated enforcement, identify the categories of drugs, describe the observable signs generally associated with the categories of drugs, recognize and interpret evidence of operating while intoxicated/drug violations, administer and interpret validated psychophysical tests to operating while intoxicated/drug suspects, and describe medical conditions and other situations that can produce signs of driving while drug impaired.

47504474 • 3 credits

Corrections Officer Recruit Trng

The Jail Officer Academy prepares candidates for entry-level positions as corrections officers working for a County Sheriff's Department in the State of Wisconsin. The program adheres to the uniform student performance objectives as established by the Wisconsin Department of Justice, Bureau of Training and Standards. The program is certified by the Wisconsin Department of Justice. Admission is restricted to those who qualify under the Administrative Code of the Wisconsin Law Enforcement Standards Board.

47504478 • 4.05 credits

Law Enforcement Certification Training

This course contains requirements for certification as a law enforcement officer by the Wisconsin Department of Justice. The course includes defensive and arrest tactics, firearms, emergency vehicle operation, and vehicle contacts.

47504482 • 0.10 credits

O.C. Pepper Spray Training

Prepares participants to use oleoresin capsicum spray in defense of self/others and/or to control threatening situations.

Participants are actively exposed to oleoresin capsicum spray and then decontaminated.

47504487 • 1 credit

Emergency Vehicle Operator

Instructor Development

Prepares participants to teach emergency vehicle operations to police recruits and inservice officers based on the Law Enforcement Standards Board training guide. Topics covered include concepts of police emergency vehicle operation, legal issues, emergency vehicle response, and pursuit driving.

47504489 • 0.60 credits

Vehicle Contact Instructor

Development

Prepares participants to teach conducting vehicle contacts to police recruits and inservice officers based on the Law Enforcement Standards Board training guide. Topics covered include the context of vehicle contacts, tactical evaluation, approach and nonapproach contacts, and high-risk vehicle contacts.

47504496 • 4 credits

Jail Officer Recruit Training

The Jail Officer Academy prepares candidates for entry-level positions as corrections officers working for a County Sheriff's Department in the State of Wisconsin. The program adheres to the uniform student performance objectives as established by the Wisconsin Department of Justice, Bureau of Training and Standards. The program is certified by the Wisconsin Department of Justice. Admission is restricted to those who qualify under the Administrative Code of the Wisconsin Law Enforcement Standards Board.

510 MEDICAL SUPPORT

47510410 • 0.30 credits

Nursing Asst. Skills Update

This course is comprised of a variety of topics in different length segments. The content of each segment is determined by the needs of the user group of health providers within the district. All topics will be oriented toward providing better health care to patients in long term care facilities, home health settings, or hospitals.

47510411 • 0.15 credits

Pharmacology Update

Acquaints medication givers with new drugs being used in patient

treatment. The instructor will address new medications, their desired effects and uses, side effects to watch for, and administration guidelines.

47510414 • 0.30

Health Care For Women Over 40

Provides the participant with information on the perimenopausal and menopausal women, including anatomy and physiology and life and physical changes accompanying mid-life. The course will emphasize health lifestyle choices as a result of these changes. The class will be highly informational with an open, informal atmosphere fostering discussion.

47510416 • 2.55 credits

N.A./Medication Assistant

Provides the experienced nursing assistant (who is already on the state & federal N.A. Registry) with knowledge, skills and abilities to perform the administration/distribution of medications to residents in a Skilled Care Nursing Facility under the direction of a registered nurse. Successful completion qualifies the nursing assistant for the Wisconsin Medication Assistant Registry. Arrangements to register for this course must be made through a current employer health facility.

47510417 • 0.15 credits

Medication Monitoring

This short continuing education course is designed to review the principles of medication administration and to discuss selected medication actions and possible side effects. It is offered by contract to agencies whose non-licensed staff assist individuals to take their own prescribed medications.

47510425 • 0.10 credits

Mobility & Restorative Cares

Participants will practice doing exercises and restorative cares to help their clients maintain their mobility. Use of body mechanics to prevent back injury will be explained and demonstrated. Proper use of assistive devices will be emphasized.

47510426 • 0.10 credits

Assisting The Dying

Participants will practice communication skills, including listening to and understanding their clients. Comfort care for the dying client and their families, including recognizing what can be done when talking doesn't seem appropriate, will be emphasized.

PERSONAL & PROFESSIONAL ENRICHMENT COURSES

47510427 • 0.10 credits

Activity & Pain Control

Participants will discuss chronic conditions that gradually diminish clients activity, and ways to keep these clients more mobile by limiting the pain they experience with movement. Aging does not need to be so painful.

47510428 • 0.10 credits

Skin Breakdown: Prevent & Treatment

Participants will be made aware of conditions that predispose clients to skin breakdown, and cares to prevent this. Basic principles to consider when trying to treat skin breakdown will be discussed and demonstrated.

47510429 • 0.30 credits

Nursing Assistant Continuing Education

Twelve hours of video-based continuing education for nursing assistants wanting to maintain active status on the Nurse Aide Directory. Topics include skin care, communication, sundowning, standard precautions, medication administration. (This series is offered as a contracted service.)

47510452 • 0.10 credits

Health Career Exploration for Men

The course provides the learner with a basic understanding of health career opportunities available to men. The course includes testimonials from men currently working in health care in central Wisconsin.

512 SURGICAL TECH

47512400 • 1 credit

Infection Control & Standard Precautions Update

Learners will be introduced to the latest information on standard precautions and infection control in healthcare. Specific examples of challenges of infection control will be addressed.

515 RESPIRATORY CARE PRACTITIONER

47515400 • 1 credit

Neonatal Resuscitation Program

The Neonatal Resuscitation Program (NRP) is designed to teach an evidence-based approach to resuscitation of the newborn to hospital staff who care for newborns at the time of delivery, including physicians, nurses, and respiratory therapists.

530 MEDICAL RECORDS

47530400 • 1 credit

ICD-9-CM Coding Continuing Education

Prepares students to assign ICD diagnosis codes supported by medical documentation with entry-level proficiency. Students apply instructional notations, conventions, rules, and official coding guidelines when assigning ICD diagnosis codes to case studies.

531 EMERGENCY MEDICAL SERVICE

47531400 • 1.75 credits

Emergency Medical Responder

This 70-hour course uses the U.S. Department of Transportation National Highway Traffic Safety Administration (NHTSA) National Standard Curriculum with approved Wisconsin additions, to provide training in all aspects of emergency medical care required at the scene of an accident or sudden illness. It includes advanced skills approved for the first responder, and the American Heart Association Health Care Provider Basic Life Support CPR course. The National Registry of EMT's Registered First Responder Exam is available as an option after successful completion of this course.

47531401 • 0.35 credits

First Responder-Industrial Skills

Uses DOT First Responder as basis but concentrates on industrial injuries and illnesses (rather than traffic accident injuries). Includes training in moving, lifting, and CPR. Must be taken with First Responder (47-531-400) course. (8 hours).

47531402 • 0.60 credits

Emergency Medical Responder Refresher

This 24-hour refresher course is based upon the US DOT National Standard Curriculum, but contains additional skills and competencies used by Medical First Responders in Wisconsin. This course includes advanced skills approved for the medical first responder and the American Heart Association Health Care Provider Basic Life Support CPR renewal.

47531403 • 0.15 credits

AHA-BLS Instructor Training

Provides American Heart Association Basic Life Support (BLS) Instructor Training for people interested in certification to

teach BLS for Healthcare Provider and Heartsaver CPR/AED/First Aid.

Prerequisite: Student must complete the AHA Core Instructor Course prior to class.

47531404 • 0.10 credits

AHA Instructor Updates – All

This course will provide required updates from the American Heart Association for the AHA disciplines of BLS, ACLS, ACLS-EP, and PALS. Student must be a current instructor within the above disciplines.

47531407 • 0.20 credits

Health Care Provider CPR/AED

American Heart Association curriculum is used to teach 1 and 2 rescuer skills in adult, child, and infant CPR; first-aid for foreign body airway obstruction (choking); and use of barrier devices and bag valve mask. Instruction in use of an automatic external defibrillator (AED) is included. (10 hours) Usually offered in three, 3-hour classes. Uses BLS for Healthcare Provider textbook. On successful completion of written and skills exam a certification card is issued. (Previously called CPR Course "C".)

47531408 • 0.10 credits

Health Care Provider CPR/AED Renewal

For healthcare providers who have taken the Health Care Provider CPR course within the past two years. Successful completion of this course will renew certification for an additional two years. Basic Life Support (BLS) for Healthcare Providers. Covers adult and pediatric CPR including 2-rescuer scenarios and use of the bag mask, foreign-body airway obstruction, and use of automated external defibrillation with CPR test.

47531421 • 0.75 credits

EMT Refresher

This 30-hour course reviews aspects of emergency care and presents new techniques that have been developed since the completion of the initial EMT course. This course is mandatory for WI EMT-B license renewal. Uses U.S. Department of Transportation /N.H.T.S.A. curriculum.

Prerequisite: Wisconsin EMT-Basic Licensure

47531422 • 0.60 credits

EMT-Basic Practical Skills Proc

Teaches EMT-Basic students practical skills procedures to standards set in State of Wisconsin Practical Skills

Procedures guide. Includes topics such as airway care, CPR, patient assessment, wound care, fracture care, spine immobilization, and moving patients. Will include actual "hands-on" practice in situations combining skills. (24 hours).

47531431 • 1.20 credits
EMT-Intermediate Refresher

This course is a refresher for EMS providers currently licensed at the EMT-intermediate level (I-99). This course provides the student with the content and competencies required for Wisconsin EMT-Intermediate license renewal.

Prerequisite: Wisconsin EMT-Intermediate licensure

47531443 • 0.50 credits
ACLS Provider Course

Designed for health care providers (medical, nursing, paramedics, or allied health personnel) whose daily occupations or volunteer activities demand proficiency in the knowledge and skills of advanced cardiac life support resuscitation and who are authorized by state law to perform some or all of these functions. American Heart Association curriculum and training materials.

Prerequisite: Must hold current Basic Cardiac Life Support card

47531444 • 0.25 credits
ACLS Provider Renewal

Offers the ACLS provider the opportunity to refresh and update the knowledge and skills acquired in the A.H.A. ACLS Provider course. Although ACLS retraining is not required more frequently than every two years, it should occur yearly for individuals who do not perform resuscitation frequently. American Heart Association Curriculum and materials.

Prerequisite: Must hold current Basic Cardiac Life Support AND Advanced Cardiac Life Support cards

47531453 • 0.60 credits
EMT Paramedic Cont. Educ Topics

Offer a variety of topics applicable to EMT-Paramedics based on department training needs to facilitate the National Registry requirements for registration.

47531454 • 0.40 credits
PEPP Pediatric Educ Pre-Hosp Prof
PEPP assist pre-hospital professionals learn and assimilate the fundamental knowledge, skills, and attitudes

necessary for assessing and treating ill and injured children.

47531458 • 0.15 credits
ACLS Instructor

To provide certification for persons interested in teaching advanced cardiac life support.

47531461 • 0.15 credits
Pediatric Advanced Life Support Instructor Class

The PALS instructor course is designed to prepare instructors to teach the AHA PALS course. The course will provide the student with an orientation to the AHA training network, principles of teaching and learning, PALS science update, review of AHA programs and teaching strategies, manikin maintenance and decontamination, and case scenario and practical evaluation stations.

47531462 • 0.40 credits
PALS Provider

The PALS course is designed to provide the student with enhanced pediatric life support skills and knowledge of how to reduce the risk of common causes of injury and arrest in infants, children, and adolescents. Recognize signs and symptoms of impending respiratory failure and shock, initiate treatment in respiratory failure and shock, stabilize and evaluate pediatric trauma patients, initiate first ten minutes of resuscitation of a pediatric cardiac arrest patient, identify and appropriately treat rhythm disturbances, and provide support to the families and providers in coping with the death of a child.

47531463 • 0.15 credits
PALS Provider Renewal

Pediatric Advanced Life Support Provider Renewal is recommended every two years. The course will refresh providers skills and update them on recent scientific developments that impact on pediatric advanced life support.

47531468 • 0.10 credits
ACLS Online Skills Tests

The ACLS Skills test is the skills validation portion of the ACLS heart Code self-directed learning program. Written exam completed online.

47531469 • 0.05 credits
BLS HCP Online Part 2 Skills Test

The BLS HCP online renewal skills test is the skills validation portion of the overall BLS online renewal course. Written exam

completed online.

Prerequisite: Part 1 (BLS HCP Online Part 1 Course Key 80-1055) delivers the cognitive learning through Web-based, self-paced modules

47531470 • 0.30 credits
ACLS-EP

ACLS-EP is a two-day course that reviews current ACLS proficiency and provides discussion for the recognition and management of electrolyte abnormalities, cardiovascular emergencies (including right ventricular infarction), environmental emergencies, and toxidromes. The ACLS EP course is for experienced ACLS providers. Current ACLS Provider Certification.

47531471 • 1.05 credits
EMT Basic and Intermediate Technician Refresher

This course is a refresher for EMS providers currently licensed at the EMT Intermediate Technician level. This course combines the 30-hour EMT Basic and 12-hour intermediate technician refresher content and competencies required for Wisconsin licensure renewal.

Prerequisite: Wisconsin Intermediate Technician licensure

47531472 • 0.60 credits
Emergency Response for Law Enforcement

In this course, students will learn how to perform an initial medical assessment for injury or medical condition, how to provide immediate treatment for a variety of injuries and conditions, and how to perform cardiopulmonary resuscitation (CPR) and use an automatic emergency defibrillator.

47531473 • 0.15 credits
EMT-Basic Flexible Refresher

This course is designed to allow EMTs the opportunity to fulfill their refresher requirements through an alternative offering that the State EMS Office has approved. This course, consisting of two hours of lecture and four hours of testing, is coupled with continuing education for the purpose of license renewal.

47531474 • 0.20
PHTLS for First Responders

This course teaches the first responder the principles of trauma assessment and treatment for first responders.

PERSONAL & PROFESSIONAL ENRICHMENT COURSES

47531475 • 0.30 credits **EMT-Intermediate Technician Refresher**

This course is designed to serve as the advanced life support refresher module that would be added to a EMT-Basic refresher in order to complete the Intermediate Technician refresher requirements under DHS 110.

47531476 • 0.60 credits **Industrial Medical Responder Skills**

This continuing education course is designed to provide pertinent medical skills and knowledge to those persons responsible for responding to emergency medical calls within the confines of an industrial setting. This course will allow students to receive continuing training in emergency medical care without spending time on skills in a traditional emergency medical responder refresher that are not necessary in the industrial setting. This course does not meet the requirements for maintaining licensure as a Wisconsin Emergency Medical Responder (EMR).

47531477 • 0.05 credits **Industrial Medical Responder**

This continuing education course is designed to provide ongoing didactic and laboratory education to support the industrial medical responder.

543 NURSING

47543400 • 1 credit **Personal Care Worker**

A 40-hour interactive course combining lecture with hands-on practice of skills utilized in the personal care worker role. Content will focus on client rights, basic first aid, transfers, client cares, feeding, use of adaptive equipment, therapeutic communication, and assisting with challenging behaviors.

47543408 • 0.30 credits **Nursing Assistant Refresher**

A 12-hour interactive course combining lecture with hands-on practice of certification testing skills. Content will focus on updating nursing assistants for the Wisconsin Nurse Aide Registry written and skills exams.

Prerequisite: Completion of a state-approved nursing assistant course.

47543417 • 0.13 credits **Medication Administration Refresher**

Unlicensed personnel are required to meet specific requirements to be able to administer medications to Wisconsin nursing home residents. The Medication Assistant Refresher course reviews medication and medication administration for the nursing home medication aide. This course meets the four-hour continuing education requirement by the WI DHS for Medication Aides.

47543429 • 0.30 credits **Nursing Assistant Continuing Education**

Twelve hours of video-based continuing education for nursing assistants wanting to maintain active status on the Nurse Aide Directory. Topics include skin care, communication, sun downing, standard precautions, medication administration. (This series is offered as a contracted service.)

47543438 • 0.40 credits **Caring for Alzheimer's Patients- Dementia Care Specialist**

This course follows the protocol for the dementia specialist that is sponsored by the Alzheimer's Association. The course will be taught by a member of the Alzheimer's Association and will introduce students to the special needs of Alzheimer's patients. The course will focus on understanding Alzheimer's disease and aging issues, effective communication with dementia patients, and promotion of strengths and abilities in Alzheimer's patients.

607 CIVIL ENGINEERING TECHNOLOGY

47607453 • 0.55 credits **Surveying For Construction Trades**

Covers basic principles and operations of the surveyor's transit. Includes laying out and establishing angles, straight lines, elevations, and grades needed in the construction process. Emphasizes basic measuring principles and instrument care rather than legal land surveying principles and procedures.

816 MOTORCYCLE/MOPED DRIVER ED

42816414 • 0.40 credits **Basic Rider Course**

This is an organized 16-hour long program for beginning and experienced motorcyclists who want to operate their motorcycles safely and efficiently. Classroom (6 hours) and "hands-on" range riding experiences (10 hours) are conducted by experienced and certified rider coaches who have been trained by the Motorcycle Safety Foundation. Motorcycles are supplied by local dealerships. Upon successful completion of the Basic Rider Course, you will receive a waiver for the Motorcycle Skills Test for Class M (motorcycle) operator's license.

42816418 • 0.20 credits **Basic Rider Course 2**

This course is for riders who already possess basic riding skills and are either returning to riding or are seeking a refresher course to practice and renew basic riding skills. The course includes three hours of lecture and five hours of on-cycle riding experience.

42816415 • 0.40 credits **Scooter Basic Rider Course**

This course is the best place for new scooter riders to start once they have made the decision to begin riding. This course is based upon the Motorcycle Safety Foundation curriculum for scooter. The course includes six hours of classroom and 10 hours of scooter-riding exercises.

818 GROUP DYNAMICS FOR TRAFFIC SAFETY

42818418 • 0.60 credits **Group Dynamics - O.W.I.**

Explores the problem of driving after consuming alcohol. Designed for motorists who do not have a serious drinking problem but for motorists who choose to use alcohol in an unsafe manner while driving an automobile. The thrust is toward modifying the drinking and driving behavior with a realistic personal plan.

ACADEMIC INTEGRITY

The MSTC Board, administration, faculty, and staff believe that academic honesty and integrity are fundamental to the mission of higher education. All students are expected to maintain and promote the highest standards of personal honesty and professional integrity. These standards apply to all examinations, assigned work, and projects. Therefore, a student who is found to have been dishonest, fraudulent, or deceptive in the completion of work, willing to help others to be so, or is found to have plagiarized (presented the work of others as his or her own) is subject to disciplinary action up to and including suspension.

ADMISSIONS & ENROLLMENT

ADDING/DROPPING COURSES

- Classes may be added through the first week of class meetings. Classes added after the first week require instructor/dean approval.
- Classes dropped before 10% of the class meetings have occurred have not reflected on the student's transcript.
- A grade of "W" (withdrawal) is issued if the class is dropped after 10% but before 90% of the class meetings having occurred. After 90% of the class meetings have occurred, a grade of "F" is assigned. The effective date of a drop is determined by the date the Office of Student Records receives the Drop/Add Form or phone call from the student, or the date the student completes the drop transaction for a class online. The form is then entered into the student data system based on the date of receipt. Grades and refunds are calculated based on the effective date of the class drop. It is the student's responsibility to obtain and retain a copy of the drop form.
- Within a semester, a student who drops one section of a course and, at the same time, enrolls in an equivalent section of the same course shall not receive a refund of course fees for the dropped section or be charged course fees for the added section. An equivalent section is defined as a course offered for the same credit value, is subject to the same dollar amount of student fees,

and is at substantially the same point in the course curriculum at the time of the drop/add. Section changes done after the first week of a course must be approved by a dean or associate dean and the instructor.

- One hundred percent of tuition and fees must be paid for added courses. If the reduction in tuition/fees for the dropped course exceeds the fees for the added class, the student is issued a refund. If the added course exceeds the tuition/fees of the dropped class, the student is required to pay the additional amount owed at the time of registration. If the student is enrolled in a payment plan or is receiving financial aid, adjustments are made accordingly.
- Students who do not attend the first class period without notifying the instructor or academic dean of their reason for non-attendance may be dropped from the class without prior notification. The vacancy created by their enrollment drop may be filled by other students seeking to enroll in the class.

ADMISSION TO A PROGRAM

Admission refers to the process of applying for acceptance into a program at MSTC. Whether studying full-time or part-time, you need to complete the admissions process if you plan to earn a degree or technical diploma from MSTC. MSTC maintains an open-door admissions policy for all prospective students. Many programs demand that students have certain skills prior to entry to maximize their experience at the college. Therefore, high school graduation or completion of the HSED or GED® is required, plus completion of certain related high school courses is strongly recommended. For detailed application steps, go to mstc.edu/admissions/how-to-apply.

Service Member Priority Registration Wisconsin Act AB201

Priority registration allows eligible service members to register for MSTC classes one day ahead of the official open registration date for any given semester. Eligible service members are those who have served, or are serving, on active duty under honorable conditions in the U.S. Armed Forces. Service members do not need to be

using veteran benefits in order to be eligible for priority registration. Priority registration is extended to service members only and not their spouses or dependents. To learn more about receiving service member priority registration, visit mstc.edu/student-resources/service-member-priority-registration or call 888.575.MSTC.

Re-Admission to MSTC

A student who was previously admitted and enrolled in a program and does not enroll in classes for at least two consecutive semesters is withdrawn from the college. The student may reapply to a program at MSTC. The student is then subject to the program requirements published in the MSTC catalog for the semester they are re-admitted to the college.

Program Change/Limitation on Number of Active Programs

Students may elect to change the program in which they are currently enrolled. To do so they should meet with a program counselor to complete a Program Change Card and pay the \$5 program update fee. The student must identify programs they want to remain active in (graduate from) and programs they are no longer interested in graduating from. Each student is allowed a maximum of two active programs. The student's record is then reviewed against the admissions requirement for the new program they have chosen.

Program changes can be submitted at any time during a semester, but they are only processed for the next available term. Program changes during a semester are not possible unless a student meets with a counselor to review the need for a change. Transcripts and transfer credit for the new program is only reviewed upon student request.

AGE REQUIREMENT FOR ENROLLMENT

Under Age 18: MSTC complies with all education statutes and policies regulated and promulgated by the Department of Public Instruction. Information regarding these policies is located at <http://dpi.wi.gov/home.html>.

Programs may possess age criteria for admission based on licensing/certification requirements. All students

STUDENT HANDBOOK

who seek to enroll at MSTC are subject to the course prerequisites and program admission requirements as outlined in the MSTC Student Catalog. Questions regarding under-age-18 attendance or home-schooled students should be directed to the Student Services Office at any MSTC location.

- High school students age 18 and older may attend MSTC courses and programs at any time during the day if they have met the applicable prerequisite or program admission requirements. Attendance during the school day for students enrolled in public/private schools can be done with the written permission of the school principal and the parent.
- High school students between the ages of 16-18 can not attend Adult Basic Education classes without an approved contract from their school district (unless his/her high school class has already graduated).
- High school students between the ages of 16-18 may attend undergraduate day classes with written consent from their parent/guardian and high school principal. Financial aid cannot be awarded to high school students who have not graduated from high school.

Under Age 16: A student under the age of 16, with the prior written consent of their parent, may attend night classes at MSTC (after 4:00 p.m.) for secondary non-required courses or post-secondary courses for which they meet the prerequisites. Students under 16 years of age are not be allowed to enroll in certain courses due to safety, certification, licensing, or policy requirements. Hazardous areas include use of hoisting apparatus, logging, motor vehicle drivers and outside helpers, usage of firearms, manufacturing or processing, and classes involving hands-on applications for skill development in areas identified as hazardous in Chapter 70 Wisconsin Code (Ind. 70.03(3e)). Consult an MSTC counselor, high school relations coordinator, or new student specialist for information on courses for which the student under 16 may be eligible to enroll. The following conditions must be met for students under the age of 16 to enroll at MSTC:

- The individual has the written permission of his/her parent or

guardian. A signed and dated letter from the parent or guardian needs to accompany the registration form.

- The individual will not be attending during the hours of the normal school day established under Wisconsin Compulsory Attendance laws.

ATTENDANCE

Class attendance is considered essential to the learning process. Therefore, regular, punctual attendance is expected of all students. Students are responsible for discussing absences with their instructors and, when permitted by instructors, responsible for making up class work that is missed. Any student deciding that he or she no longer wishes to attend class must officially drop the class. Students failing to drop a class remain responsible for class costs and is issued a failing grade.

Students are expected to attend the first class period or notify the class instructor. Students who do not attend the first class period or provide appropriate notification may be administratively dropped from the class. The college will inactivate a student's enrollment and program status after a period of two consecutive semesters of nonattendance.

COURSE CANCELLATION

On occasion a course will be cancelled. Students will be contacted by the college to consider placement into another course. MSTC reserves the right to cancel courses due to low enrollment.

COURSE NUMBERING SYSTEM

The first two digits of the course number identify the degree level of the coursework.

- 10 – Associate Degree level (e.g., 10809198)
Exception: catalog numbers with the 3rd and 4th digit equal to 83 are developmental courses (e.g., 10835103)
- 30, 31, 32 – Technical Diploma level (e.g., 30543300, 31509309, 32404307)

CREDIT FOR PRIOR LEARNING

MSTC's Credit for Prior Learning Policy provides an opportunity for students to receive credit for their knowledge and skills gained from experience other

than through course offerings at MSTC in order to accelerate the completion of their degree, diploma, or certificate. Credit for Prior Learning credits may include transfer of credits from regionally accredited, post-secondary institutions; credit by standardized examination; military occupational experiences/training; or other life experience and articulated high school credit. MSTC has agreements with many area high schools to grant advanced standing for select high school courses.

Students are required to complete 25% of the technical studies (associate degree programs) or occupational-specific studies (technical diploma programs) at MSTC. The remaining 75% of coursework may be completed with the various types of credit for prior learning.

Students must meet the competencies of the specific course for which they request credit for prior learning. All students seeking any form of credit for prior learning will begin the process with the Student Services Office. Student Services may refer the student's request to the appropriate division dean. After the evaluation is completed, Student Services will notify the student in writing regarding the result of the evaluation. If credits are granted, they will be entered on the student's permanent transcript record. An appeal of the final decision may be made through the Academic Appeals process.

Credit for Prior Learning Definitions

Articulated Credit–Advanced placement for courses taken in high school (AC)

Through a cooperative program between area high schools and MSTC, qualified students can receive credit at MSTC for selected high school courses. Students must have completed specific requirements in high school and have obtained a 3.0 out of a 4.0 GPA in the articulated coursework to receive technical college credit. For more information, contact your high school counselor, the MSTC high school career coach, or MSTC Student Services Office.

Credit by Standardized Examination (CE)

MSTC staff will review test results from the College-Level Examination Program (CLEP), subject examinations, Advanced Placement (AP) exams, and other third-party administrators for possible credit toward completion of a degree, diploma, or certificate. Credit toward a credential will be awarded only for courses that fulfill a published MSTC graduation requirement or that are an acceptable degree elective at MSTC. College staff will use the guidelines published by the testing agencies to identify appropriate test scores for credit recognition. Students must provide MSTC with an official, sealed transcript of test results from the testing agency for a review to occur. Credit awarded for successful performance will appear on an MSTC transcript as "CE" for "Credit by Examination." This credit will not be part of a student's grade point average calculation. The appropriate academic division dean is responsible for the final decision on the recognition of credit.

Credit for Life Experience (EX)

Students initiate the process of applying for Credit for Life Experience (military, occupational, or other life experience) with Student Services. Students are then referred to the dean/associate dean in the appropriate department for the evaluation of prior learning. Students must demonstrate proficiency in the course competencies by methods of evaluation that will be identified by the dean/associate dean. A nonrefundable fee of \$30 per credit for each course related to the evaluation request is required. This fee is due from the student prior to determining the award of credit and is due regardless of whether credit is or is not awarded.

Transfer of Credits from Regionally Accredited, Postsecondary Institutions (TR)

- Credit for courses may be accepted from regionally accredited institutions of higher education, provided the student has received a letter grade of "C" (2.0 on a 4.0 scale) and the course credit and content are similar to the course content at MSTC.
- Students who plan to take courses at another institution and transfer them to MSTC toward

CLEP Exam	Min. Score	MSTC Course Credited	Credit Hours
Introductory Business Law	55	10105160 Business Law	3
Principles of Marketing	55	10104102 Marketing Principles	3
Principles of Management	55	10102147 Principles of Management	3
College Composition	55	10801195 Written Communication	3
College Composition-Modular	-	-	-
American Government	55	10809122 Intro to American Government	3
Human Growth and Development	55	10809188 Developmental Psychology	3
Principles of Macroeconomics	55	10809144 Macroeconomics	3
Principles of Microeconomics	55	10809143 Microeconomics	3
Introductory Psychology	55	10809198 Intro to Psychology	3
Introductory Sociology	55	10809196 Intro to Sociology	3
College Algebra	55	10804195 College Algebra with Applications	3
Calculus	55	10804198 Calculus I	4
Chemistry	60	10806134 General Chemistry	4
Financial Accounting	55	10101111 Accounting I	4

AP Class	Min. Score	MSTC Course Credited	Credit Hours
AP Art History	-	-	-
AP Music Theory	-	-	-
AP Studio Art: 2-D Design	-	-	-
AP Studio Art: 3-D Design	-	-	-
AP Studio Art: Drawing	-	-	-
AP English Language and Composition	3	10801195 Written Communication 10801136 English Composition I	3 3
AP Comparative Govt. and Politics	-	-	-
AP European History	-	-	-
AP Human Geography	-	-	-
AP Macroeconomics	3	10809144 Macroeconomics	3
AP Microeconomics	3	10809143 Microeconomics	3
AP Psychology	3	10809198 Intro to Psychology	3
AP US Govt. and Politics	3	10809122 Intro to American Government	3
AP US History	-	-	-
AP World History	-	-	-
AP Calculus AB	3	10804198 Calculus I	4
AP Calculus BC	3	10804198 Calculus I	4
AP Computer Science A	-	-	-
AP Statistics	3	10804189 Introductory Statistics	3
AP Biology	-	-	-
AP Chemistry	4	10806134 General Chemistry	4
AP Environmental Science	3	10806112 Principles of Sustainability	3
AP Physics B	4	10806154 General Physics I	4
AP Physics C: Electricity and Magnetism	-	-	-
AP Physics C: Mechanics	-	-	-

STUDENT HANDBOOK

program requirements are strongly encouraged to meet with their program counselor to review how the coursework from the other college/university would be applied to their MSTC program.

- The student must provide the Student Services Office with an official transcript of credits and an official description of the course(s) for which the credit is requested.
- The grade from the transferred course will not show on the MSTC transcript. Courses that do not meet program requirements may be accepted by MSTC for elective credit.
- For credits earned at nationally accredited institutions, please see guidelines for Credit for Experience.

DISMISSAL/SUSPENSION

If there is reasonable cause to believe a student has pursued a course of conduct requiring suspension or dismissal, the student may be suspended or dismissed by the class instructor, dean of student support, campus dean, or division dean. The student will be informed of the specific charges in writing without unreasonable delay. A student may be withdrawn from a class or a program under the following circumstances: disciplinary reasons, code of conduct violation, past due financial obligations, and failure or refusal to obtain professional help and/or to accept professional advice.

ELECTIVES

Program electives may be fulfilled by successfully completing an MSTC associate degree level course or through various credit for prior learning options. See Credit for Prior Learning for additional information. Developmental courses may not be used to satisfy electives. Developmental courses are those courses with an eight-digit catalog number beginning with 1083 (example: Intro to Writing 10831103).

ENROLLMENT STATUS CLASSIFICATION

- Full-time student: A student who is enrolled in 12 or more undergraduate semester credits.
- Part-time student: A student

who is enrolled in less than 12 undergraduate semester credits.

- Unassigned student: A student who is not admitted into a degree, diploma, or certificate program, but is taking undergraduate classes.

Although a student is considered full-time by carrying 12 semester credits, a semester course load of 15-18 credits is typically needed to complete a one-year program within one year, or a two-year program within two years. Students may choose to extend the length of their program by taking a lighter course load.

FEES AND OTHER EXPENSES

MSTC established a fee structure in accordance with the Wisconsin Technical College System and state statutes. Fees may vary annually and are subject to change. Payment of fees is required to complete the admission and registration process.

- **Application fee:** \$30, required when application form is submitted. The application fee is non-refundable and does not apply toward other fees. Application fee is only applicable to those applying to a program and not just taking a class.
- **District tuition:** Per credit is subject to change annually. Tuition is charged for all associate, technical, and apprenticeship credits. Visit mstc.edu for more information on tuition and fees.
- **Out-of-State Tuition:** Per credit is subject to change annually. Visit mstc.edu for more information on tuition and fees.
- **Incidental fee:** 5% per credit, charged each semester to help cover student activities, such as student government, and to help support various clubs and student activities.
- **Online fees:** \$10 per credit. Charged for classes taught solely over the Internet.
- **Criminal History Record check:** For some Service & Health programs, students need to pay for a criminal background check and provide documentation of required healthwork to Certified Background a private vendor. Fees may vary.
- **Material fee:** Varies with each course, and covers the cost of

materials used by a student in each course.

- **Program update fee:** Students wishing to change the program they are admitted to are required to meet with their program counselor to complete a Program Change Card along with a \$5 program update fee.
- **Textbooks and supplies:** Students are required to purchase their own textbooks and supplies. The cost varies by program. In accordance with the Higher Education Opportunity Act (HEOA), students have access to the cost and, when applicable, the ISBN number for required textbooks and supplemental materials. This information is available on the MSTC website and the students' online Class Schedule.
- **Student ID:** The first student ID card is issued at no charge. Should a replacement ID card be required, there is a \$5 fee for each additional card. ID's are available in campus libraries.

GRADING

Grade Point Average

Grade point averages (GPA) are figured on a 4.0 scale. When calculating the GPA, the sum of all points awarded is divided by the total credits attempted. Grade point averages are calculated on a cumulative basis as well as for the individual semester. Upon graduation from an associate degree program or technical diploma program, the program specific GPA is indicated on the student's official transcript. The letter grading scale used at MSTC is as follows:

Grade	GPA
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
D-	0.67
F	0.00

No credits or grade points are awarded for the following grades:

AC.....	Articulated Course Advanced placement for courses taken in high school
AU.....	Audit Status
CE.....	Credit by Examination
IC.....	Incomplete
IP.....	In-Progress
R.....	Repeated Course
S.....	Satisfactory (non-credit course)
SP.....	Satisfactory Progress
TR.....	Transfer Credit
U.....	Unsatisfactory (non-credit course)
UP.....	Unsatisfactory Progress
W.....	Withdrawn from Class

Audit Status (AU)

Audit (AU) status means the student attends class but does not receive a grade for the class. Only during the first 10 academic days for 17-week courses (or within the first 10% of the class) may a student change from credit to audit or audit to credit status. Audit students are required to pay the same tuition and fees as credit students and a permanent record is maintained. Students are required to process any change through the Campus Office. Audit status is dependent upon instructor approval. Classes taken for audit are not applied toward enrollment status, graduation, and/or financial aid eligibility.

Incomplete (IC)

An incomplete grade may be awarded when a student is unable to complete a course due to extenuating circumstances. Incomplete grades must be made up before the end of the ninth week following the course end date for 17-week courses. For less than 17-week courses, an IC must be made up within 50% of the course length. Failure to do so will convert the IC grade to "F". Students are not allowed to register for advance sequential courses until incompletes are made up in preceding prerequisite.

In-Progress (IP)

An in-progress grade is awarded in cases where the end-date of the course follows the official end-date of the semester in which it was offered (e.g., independent study, flexible online learning courses). If the student fails to complete the class, the IP grade is converted to "F".

Repeated Course (R)

Students may retake a course to improve a grade. The most recent grade a student has earned in a course is the grade that is used to calculate a student's semester and cumulative grade point averages. Students must request a grade replacement through the Office of Student Records for the original grade and a recalculation of their GPA. Course catalog numbers for the original and repeated courses must match in order for a grade replacement to occur (exceptions: some Microsoft Office and math courses). The student's most recent course grade will appear on transcripts. Previous enrollments in the same course are listed with a grade of "R", indicating repeat of course.

Withdrawal (W)

Students may drop a class by completing and submitting a Drop/Add Form or by a drop transaction online. The "W" grade will be applied to a dropped class according to the percent of classes having met at the time the class is dropped, as follows:

- 0-10% — No record of the class will appear on the transcript
- 11-89% — "W" grade appears on transcript
- 90-100% — Grade of "F" appears on transcript

HOLD STATUS

Hold Status is placed on a student's account for any amount of tuition, fees, library fines, bookstore charges, financial aid repayment, or any other outstanding balance due MSTC until such charges have been satisfied. This status prevents the student from registering for classes and prevents the release of, and online access to, transcripts/grades and diplomas/degrees.

HOME SCHOOL ATTENDANCE

MSTC complies with all education statutes and policies as regulated and promulgated by the Department of Public Instruction. Students under 18 years of age are not able to participate in the following courses: nursing core, licensed practical nursing, fire training, or police academy training.

- A home-schooled child age 15 or younger may attend night classes (after 4:00 p.m.) at MSTC for secondary non-required courses or

post-secondary courses for which they meet the prerequisites.

- A home-schooled child age 16-17 may attend MSTC during the school day (with the prior written consent of their parent) or in the evenings for secondary non-required courses or post-secondary courses for which they meet the prerequisites.
- A home-schooled child age 17 or younger may not attend the Adult Basic Education during the day, but may do so after 4:00 p.m., for secondary non-required academic support.
- A home-schooled child age 18 or older who has completed high school may attend any MSTC classes at any point during the school day.
- Home-schooled students are not eligible for federal financial aid until completion of their high school degree.

Questions regarding home-schooled students should be directed to Admissions at any MSTC location.

INTERNATIONAL STUDENT ADMISSION

The United States Department of Homeland Security approved MSTC for acceptance of non-immigrant students with F-1 or M-1 visas. International students seeking an I-20 for full-time attendance as a non-immigrant student need to comply with the International Student Application procedures outlined at mstc.edu/admissions/international-students.

MIDWEST STUDENT EXCHANGE PROGRAM

Students who enroll at MSTC in associate degree programs and are from states that are members of the Midwestern Higher Education Compact (MHEC) may be eligible for a program and fee rate that is 150% of the in-state tuition rates. Students whose permanent addresses are located in Illinois, Kansas, Michigan, Missouri, Nebraska, and North Dakota are eligible for this discount upon admission to MSTC.

MINNESOTA RECIPROcity FOR TUITION AND FEES

Students whose permanent address is located in Minnesota are eligible

STUDENT HANDBOOK

under the Wisconsin-Minnesota Tuition Reciprocity agreement to pay in-state tuition rates and fees as long as they are enrolled.

NO-SHOW POLICY

The No-Show Policy is instituted during the first week of classes each semester. Faculty are asked to identify students who are appearing on their class rosters but not attending or logging in (online). These students are referred to as no-show students. An attempt will be made to contact no-show students to determine if they are planning to attend or not. If not, their classes will be dropped and all tuition charges removed.

STUDENTS CALLED TO ACTIVE MILITARY

Students who are ordered or inducted into active service in the Armed Forces of the United States, or requested to work for the federal government during a national emergency, or a limited national emergency, shall be afforded one of the options below:

- The student may withdraw from college receiving a 100% refund of tuition and fees upon presentation of a document demonstrating a call to active duty to the Registrar. The refund will not include books. No grades will be assigned to the classes. Students choosing this option may be readmitted to MSTC at the start of the next term and will be placed in the first spot of any programs with waiting lists.
- The student may receive a grade of IC (Incomplete) which will allow the student to complete the coursework with instructional support upon return from active military duty. There is no refund with this option.

The student must contact the Financial Aid Office for advisement regarding the handling of financial aid processing and awards.

TUITION REFUND POLICY MSTC

Refunds are issued per the official refund schedule available at any Campus Office. Refund amounts are determined by the Wisconsin Technical College System (WTCS) Refund Policy

and federal financial aid regulations. Refunds will be issued to the student unless a documented third-party sponsorship or contract exists. In such cases the refund will be returned to the sponsor or contracting party.

WTCS

If the college cancels a course, 100% of student fees shall be refunded. If a student applies for a refund before the first class meeting which the student is scheduled to attend, 100% of student fees shall be refunded.

- 80% of all applicable student fees are to be refunded if application for refund is made before or at the time 10% of the course's potential class meetings of instruction have been completed.
- 60% of all applicable student fees are to be refunded if the application for refund is made after 10% but before more than 20% of the course's potential class meetings of instruction have been completed.
- No refund is to be made if the application for refund is made after 20% of the course's potential class meetings of instruction have been completed.

WITHDRAWAL FROM COLLEGE

It is highly recommended that students wishing to withdraw from the college meet with a counselor to discuss personal, financial, and grading implications of this decision. The effective date of the withdrawal from college is determined by the date that the Office of Student Records receives the Drop/Add Form or the date the student completes the drop transaction online. Grades and refunds are calculated based on the effective date of withdrawal from college. The student will receive a copy of the completed, date-stamped Drop/Add Form; it is the student's responsibility to retain a copy of the form.

APPEALS

APPEALS PROCESS

MSTC seeks to ensure fair and just treatment of students. Opportunities are available to appeal academic and non-academic decisions. Before an academic appeal is filed, the student is required to contact the instructor or other staff member directly involved

with the decision to clarify the issue(s). Every effort to resolve the issue(s) should be made at this level. Opportunities for appeal are detailed in the following policies and procedures.

Classroom Misconduct (academic)

Students who wish to appeal a decision pertaining to sanctions for classroom misconduct (e.g., dismissal, suspension) may use the appeal process outlined in the Final Grade appeal section below.

Credit for Prior Learning Appeal

Students not satisfied with the decision regarding transfer credit, life experience credit, or other credit for prior learning awarded may submit a formal written appeal to the division dean of the area where the decision was issued. The written request must be made no later than 10 school days after receiving the decision and should contain rationale for reconsideration of the decision. A meeting with the division dean and student will be held within five school days of receipt of the request.

If the student and the division dean are unable to reach an agreement, the student may appeal in writing to the vice president of Academics within five school days after meeting with the division dean.

An Ad Hoc Appeals Committee convened by the vice president of Academics will meet with the student. The vice president of Academics will inform the student in writing of the decision of the Ad Hoc Appeals Committee within five school days of the meeting.

Final Grade

If a student believes that the final grade in a course is inaccurate or unjustified, an appointment should be made with the instructor to present the appeal in writing and discuss the reason(s) for the appeal. Every effort to resolve the issue should be made at this level. The final grade appeal process must occur within 90 days of the issuance of the grade.

If the student and instructor are not able to reach an agreement, the student may request in writing, no later than five school days after the meeting with the instructor, that the division/department supervisor arrange a meeting. The division/department supervisor, the instructor, and the student will meet

within five school days of this request to attempt to resolve the issue. The student will receive written notice of the decision within five school days of the meeting.

If the issue is still unresolved, the student may appeal in writing to the vice president of Academics within five school days of receipt of the decision. The written appeal should describe in detail the events leading up to the appeal.

An Ad Hoc Appeals Committee consisting of the vice president of Academics, the division/department supervisor, and a faculty member will meet with the student to attempt to resolve the issue. The vice president of Academics will inform the student in writing of the decision within five school days of the meeting.

Financial Aid Appeal

If a student believes a financial aid action is inaccurate or that satisfactory progress requirements were not met due to extenuating circumstances, he or she may file a written Appeal/Petition for Reinstatement to the financial aid supervisor. The appeal should include detailed information on the inaccuracy or extenuating circumstances along with supporting documentation. The Appeal/Petition for Reinstatement form is available at mstc.edu/paying-for-college/financial-aid-appeal-process.

If a student and the financial aid supervisor are unable to reach an agreement, the student may appeal in writing within five school days of receiving notification to the dean of enrollment management. The dean of enrollment management will meet with the student and the financial aid supervisor within five school days of receipt of the appeal. The student will be notified in writing of the decision within five school days of the meeting.

Graduation Requirements

Students who wish to appeal a decision pertaining to graduation requirements may use the appeal process outlined in the Credit for Prior Learning appeal section.

Student Account Appeal

Students are responsible for charges and payments to their account. In extenuating circumstances a student

may be eligible for a refund or a reduction in outstanding charges outside of the general tuition refund policy determined by the Wisconsin Technical College System. Before a student account appeal is filed, the student should seek assistance from the Campus Office regarding charges and payments on their account.

The student account appeals process must be initiated within 90 days of the charge being posted to the student's account or within 90 days of the official semester start date, whichever is later. To file an appeal, the Student Account Appeal Form must be completed by the student with all supporting documentation attached and submitted:

- **In person**
Any MSTC Campus Office
- **Mail**
Student Records Office
Mid-State Technical College
500 32nd Street North
Wisconsin Rapids, WI 54494
- **Fax**
715.422.5561
Attention: Student Records

The appeal will be reviewed by the Student Account Appeals Committee. Appeals are reviewed biweekly. The student will receive written notification within two weeks following the appeals meeting.

Student Conduct Appeal (non-academic)

Whenever possible, alleged misconduct issues should be resolved informally through a conference with the complainant and the alleged student. The parties may ask a neutral party (e.g., campus dean, dean of student support) to act as a mediator.

In the event alleged misconduct cannot be resolved informally, faculty/staff/administrator/student may initiate action by filing an incident report. Any faculty/staff/administrator/student of the college community may charge a student with alleged acts of misconduct. The faculty/staff/administrator/student will submit the incident report to the dean of student support or campus dean and forward a copy to his/her dean/supervisor.

Students accused of conduct violations are entitled to the following protections:

- To be informed of the charge and

relevant evidence.

- To respond to the charge.
- To request that the dean of student support or campus dean resolve the case in an informal disciplinary meeting.
- To be assured confidentiality in accordance with the federal Family Education Rights and Privacy Act.

The review process outlined in the Student Code of Conduct will be followed. Once completed, the outcome will be communicated in writing to both parties involved within five school days. Any disciplinary action will take effect on the date of notification.

Either party may appeal the decision. The burden of proof is on the party submitting the appeal. Appeals must be submitted in writing to the dean of student support within five days of the notice/receipt of the decision. Disciplinary decisions can be appealed only under the following conditions:

- To determine if there was significant error in the process that impaired either party, including failure to follow appropriate procedures either prior to or during the initial review.
- To consider significant new evidence or material that was not known, not available, or could not be discovered at the time of the review.

In the event of an appeal, the initial decision shall be upheld until a final decision is made by the Student Conduct Committee regarding the appeal. The appealing party will be notified within ten days of a decision. The decision of the Student Conduct Committee is final, and no further appeals can be submitted.

For specific information on the appeal process, please consult the Student Code of Conduct at mstc.edu/student-resources/policies.

Complaint Procedure-Mid-State Technical College (MSTC)

MSTC is committed to providing a positive environment and educational experience for students. Should you have a concern or problem, please discuss it with your instructor, counselor, or campus dean to attempt to resolve the matter. If this action does not

resolve the problem, a formal complaint can be presented. Typically, a formal complaint is a written allegation of an inequity. An inequity may involve either the academic or the non-academic function of MSTC. Students who believe that they have cause to make a formal complaint should send a letter to:

Dean of Student Support
Mid-State Technical College
500 32nd Street North
Wisconsin Rapids, WI 54494

Complaint Procedure-Wisconsin Technical College System (WTCS)

Students who attend a college that is part of the WTCS can file complaints at the state level in three categories defined by U.S. Department of Education:

- Complaints that allege violations of Wisconsin consumer protection laws, including, but not limited to, false advertising.
- Complaints that allege violations of Wisconsin laws related to the licensure of postsecondary institutions.
- Complaints relating to the quality of education or other state or accreditation requirements.

A student who reasonably believes that a violation has occurred in one or more of these categories may file a written complaint. Complaints must be signed by the student and submitted on the official student complaint form. Complaints must be filed within one year from the date of the alleged violation or the last recorded date of attendance, whichever is later. The WTCS will review complaints only after students attempt to resolve the matter through applicable college appeals or complaint processes.

The student complaint form can be found at www.wtcsystem.edu/about-us/governance/system-office/educational-services/student-complaints.

DISABILITIES

It is the policy of MSTC to comply with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA). Individuals with disabilities are provided with reasonable and effective accommodations, when requested, to afford equal access to educational

opportunity at MSTC. Services are provided to prospective and enrolled students who are otherwise qualified with or without accommodations for admission and participation in postsecondary education.

MSTC campuses are physically accessible under ADA guidelines. For issues related to ADA/504 contact the disabilities services coordinator, at 715.422.5452.

To access reasonable and effective accommodations, students can self-identify their disability and directly contact the Disabilities Services staff for assistance. These personnel are available on each campus and have offices in Student Services. In addition to self-identification, an instructor can make referrals to the Disabilities Services staff after a student has begun classes.

The Disabilities Services staff, student, and individual instructors together determine what services and accommodations are needed and how they are to be provided. Although students can self-refer or be referred at any time, adequate and reasonable time is required to develop and provide appropriate accommodations, which are provided at no cost to the student. When possible, accommodations should be requested a semester before they are to be put in place. However, Disabilities Services staff will assist students at any time to provide services in a timely manner. Students may use accommodations starting the date they are approved. Coursework and exams that have occurred prior to approval are considered completed and are not eligible for accommodations. MSTC does not provide attendant care services. Students in need of personal care are expected to make their own arrangements for these needs.

To be eligible for accommodations, students are required to provide documentation of a disability which substantially limits one or more major life activities, show a history of such impairment, or be regarded as having such an impairment. Reports from medical doctors, licensed psychologists, the Division of Vocational Rehabilitation, a licensed social service agency, or high school exceptional education needs (EEN) staff are examples of acceptable

documentation. When requested, MSTC Disabilities Services staff works in collaboration with community agencies in coordinating services for students with disabilities.

Students with questions about availability of disability support services or establishing eligibility for services should contact the Disabilities Services staff at the campus the student attends. MSTC does not provide testing to diagnose disability, but can refer students to appropriate agencies for testing. If a student suspects they have a disability, staff will discuss procedures for getting evaluated. Provisional accommodations may be provided pending evaluation results.

Reasonable and effective accommodations are individually determined and based on disability. Disabilities Services staff work with students, faculty, and staff to provide adjustments and modifications within our educational environment that provide students with disabilities an equal access to education and the ability to participate. They are not designed to give students with disabilities an unfair advantage over other students. Accommodations provide students with disabilities an equal opportunity to demonstrate their abilities.

Appeal Procedure: If you are denied accommodations or disagree with decisions about services or accommodations, there is a process to resolve your issues under the Student Discrimination Policy. A copy of this policy is available online at mstc.edu/student-resources/policies.

FINANCIAL AID

Financial aid is designed to supplement the resources of the student and/or family to help students achieve their educational and career goals. Every student in an approved program is eligible to apply for financial aid. All student financial aid is based on financial need. This need is established by an analysis of the Free Application for Federal Student Aid (FAFSA). Students should complete the FAFSA every year to determine eligibility.

Financial aid is offered to students only after they have been accepted for admission into an eligible program of study. Department of Education regulations require courses funded by financial aid be required toward graduation for that program of study.

Types of Financial Aid Available at MSTC

Pell Grant

Federal grant based on financial need. Grants range from \$581 to \$5775 per academic year. There is a 12-semester lifetime limit (or its equivalent) a student can receive Pell Grants.

Wisconsin Higher Education Grant (WHEG)

State grants range from \$500 to \$1084. Eligibility is limited to 10 semesters.

Supplemental Education Opportunity Grant (SEOG)

Grants range from \$100 to \$300 per year at MSTC.

College Work-Study (CWS)

Part-time jobs are provided on-campus with faculty and staff or off-campus at community service sites such as public libraries, Boys & Girls Clubs, and Head Start. Worksites are also established through elementary and secondary schools for tutors in math and reading as part of the America Reads Program. Students are paid biweekly.

Student Loans

- Federal Direct Subsidized Stafford Loan: A student may borrow up to \$3500 for the first year and \$4500 for the second year, if working towards an associate degrees depending on need. The federal government pays the interest while the student is enrolled at least half time. Effective July 1, 2013 the Department of Education is monitoring all new borrowers or first-time borrowers' loan periods. If the borrower exceeds 150% of the published length of their academic program, the borrower becomes ineligible to receive additional Direct Subsidized Loans and becomes responsible for accruing interest during all periods as of the date the borrower exceeds the 150% limit.
- Federal Direct Unsubsidized Stafford Loan: This loan assists students with their education if they are ineligible for a Subsidized Stafford Loan or

in addition to the Subsidized Loan. Conditions are the same with one exception - interest starts accruing immediately. The student has the choice to pay the interest monthly while in college or it can be deferred and added to the principal of the loan. A student must complete the FAFSA and be considered for all types of financial aid prior to receiving a Federal Unsubsidized Loan.

- 30-Day Delay in Disbursement for First-time Borrowers: If a student is a first-time borrower, MSTC cannot disburse the first payment until 30 days after the first day of the semester. This practice ensures that students won't have a loan to repay if they don't begin classes or if they withdraw during the first 30 days of classes.
- Double-Disbursement of Loans: If a student is only enrolled for the Spring Semester (for example, the student did not attend Fall Semester and is enrolled for Spring Semester only in the 2015/16 aid year), loans must be double disbursed. The first disbursement would have the 30-day delay applied and would be disbursed in February and the second half at the mid-point of the semester.

Grants will be applied to tuition with no delay. If tuition is still owed, it will be deferred until loan funds are disbursed as long as the student completes the Master Promissory Note and Entrance Loan Counseling and is enrolled and attending classes.

- Private-Alternative Loans for Education: All loans for education must be calculated as a resource towards meeting the student cost of attendance according to federal regulations. Students are encouraged to apply for federal and state grants and the federal loan program prior to considering private-alternative loans due to the repayment provisions and interest rates offered. Private education loans must be processed directly with a lender of choice. MSTC District Board Policy Bulletin D08-17 on the MSTC website outlines the Financial Aid Lender Policy and Code of Conduct on Lender Relations.

- PLUS Loans (Parent Loan for Undergraduate Students): A loan parents of "dependent" students may apply for to assist their son or daughter with educational expenses. Detailed information is available at mstc.edu/paying-for-college/loans.

Scholarships

Various scholarship opportunities through the MSTC Foundation are available online at mstc.edu/scholarships as they become available throughout the year. For further information, contact the Foundation & Alumni Office at 715.422.5322 or foundation@mstc.edu.

For information on other financial resources, visit mstc.edu/paying-for-college.

Application For Financial Aid

To apply for federal aid, you must complete a Free Application for Federal Student Aid (FAFSA). You can apply online at www.fafsa.gov. Paper FAFSA applications are available by calling 1.800.4FED.AID or by printing a PDF copy at www.fafsa.ed.gov/options.htm. Students must have a high school diploma, HSED, GED, or home school completion to be eligible for federal and state financial aid.

Financial Aid Continued Assistance

Federal regulations require that schools monitor the academic progress of students. It includes all periods of enrollment even if the student did not receive financial aid. Students can receive aid only for classes that are required for their program.

To continue to receive financial assistance for each term, a student must progress toward their degree/diploma by meeting the following standards:

- GPA: Cumulative 2.0 or higher.
- Pace: Must complete 67% of all classes attempted. Attempted credits must include withdrawals (W), incompletes (IC), in-progress (IP), repetitions (R), and transfer credits (TR). Due to the cumulative nature of these requirements, it is very important that students take adding and dropping of classes under careful consideration.
- Maximum Timeframe: Successfully complete the program before attempting more than 150% of the

credits required for graduation. Example: A program that requires 68 credits for graduation. $68 \text{ credits} \times 150\% = 102$. Students are not eligible for aid at the point when they cannot complete their program within 102 credits.

Financial Aid Warning/Suspension

If students do not meet the above standards, they will be placed on financial aid warning for one semester to allow them to get back in good standing. During that warning semester, students are eligible for financial aid but must meet the standards at the end of the term or face suspension. If there are extenuating circumstances, students have the right to submit a Petition/Appeal for Reinstatement for one semester. Students are strongly encouraged to utilize the services provided by MSTC such as the Learning Commons, tutoring, and counseling.

Appeal Process

Students who believe their circumstances merit reconsideration may appeal their suspension by submitting a Petition/Appeal for Reinstatement. This form can be found at mstc.edu/paying-for-college/financial-aid-forms. An appeal cannot be based on need for aid or lack of knowledge of the warning status. An appeal must be based on an unusual situation or condition (e.g., illness, injury, death of a family member) which prevented the student from being successful. Documentation may be required. Students whose appeals are approved but will not be able to meet the Satisfactory Academic Progress Standards by the end of the probationary term will be required to meet with a counselor to develop a Financial Aid Career Plan. This plan must ensure that the student will be able to meet the standards within a specific timeframe. Students must follow this plan successfully completing all courses to remain eligible for financial aid.

Financial Aid Emergency Financial Situations

If the student has an emergency situation that could jeopardize his or her education at MSTC, the student should contact the Financial Aid Office to discuss resource options.

Financial Aid Enrollment Changes

The Financial Aid Office will verify

enrollment as of the financial aid census date, which is the 14th calendar day of the semester. Eligibility must be determined on the student's enrollment level (full-time, half-time, three-quarter time, or less-than-half-time); therefore, changes in enrollment may affect how much money the student receives.

The Financial Aid Office must recalculate a student's award if a change of enrollment occurs before the 14th day or the student's initial disbursement date. If a class is refunded at 100%, financial aid must be recalculated, and a repayment may be required. If the Financial Aid Office is notified that the student does not attend classes they registered for (no-show), the student is not eligible to receive financial aid and is required to repay 100% of any financial aid received. It is important to notify the Financial Aid Office any time a student decides to change enrollment to determine what impact that may have on financial aid eligibility.

Financial Aid Enrollment Definitions

- Full-time = 12 or more undergraduate credits
- Three-quarter time = 9 to 11 undergraduate credits
- Half-time = 6 to 8 undergraduate credits
- Less-than-half-time = 5 or less undergraduate credits

Financial Aid Payment Procedures

All financial aid funds are generated electronically through student accounts. Financial aid funds must satisfy MSTC financial obligations of tuition and fees. Students should prepare to purchase their books independent of financial aid. Students whose aid exceeds the amount owed to MSTC will have the remaining funds disbursed to them. Students have the option to have their funds direct deposited or checks will be mailed to their address on file.

Financial Aid Re-Evaluation Of Income

If a student or family member has a significant change in income caused by unemployment, death, divorce, separation, etc., he/she should contact the Financial Aid Office to determine if their eligibility may be reviewed.

Financial Aid Refunds & Repayments

Return of Federal Funds: Federal law states that if a student receives

federal financial aid and withdraws, quits attending, or drops out of all of his or her classes before completing at least 60% of the semester, the student will have to return a portion of the federal aid that was received. Withdrawal date is defined as the date on which the student officially notifies the school of withdrawal from the courses, the last date of class attendance or academically-related activity, or the midpoint of the semester if the student leaves without officially withdrawing. Students who receive all "F" grades at the end of the semester will be subject to review for return of federal funds. If courses are offered as modules and the student withdraws before the end of the term, return of Title IV repayment calculations must be applied. As a result, students may owe a repayment of a portion of their financial aid. The college will consider only amounts received during the semester or payment period. Students are encouraged to discuss withdrawal with the financial aid staff to determine how they will be impacted. Federal funds included in this policy are Direct Stafford Loan (unsubsidized and subsidized), PLUS Loans, Pell Grant, and SEOG. Students are billed by MSTC for any repayment that is due.

Students are not able to receive further financial aid at this or any other institution until the repayment is made in full. Academic transcripts will be held, and a student will not be able to register for the next semester. It is important that repayment is made at the Campus Office as promptly as possible. A student is not eligible to receive federal financial aid at any college until repayment is made.

Clock Hour Programs-Cosmetology

The MSTC Cosmetology program provides the theoretical and practical instruction to meet the Wisconsin requirement of 1550 hours for licensure. Title IV Federal regulations require such programs must use clock hours in all areas of administering financial aid. The program is separated into three payment periods based on 518 clock hours and 14 week blocks of instruction. Funds will be disbursed for the first payment period prior to the first term of entry to the program. Students must complete the clock hour and weeks of

instruction for each payment period before establishing eligibility for their second and third disbursements.

Federal regulations require that schools monitor satisfactory academic progress (SAP) standards in both qualitative (grades) and quantitative (time) measures. SAP will be measured at the point when the student's scheduled clock hours for the payment period have elapsed, regardless of whether the student attended them. Student must maintain at least a 2.0 cumulative grade point average and complete at least 90% of the scheduled class time each session to remain eligible for financial aid. Evaluation will be done at the end of each payment period. Students must complete 1550 hours within a maximum of 150% time frame or 63 weeks.

If students do not meet the above standards, they will be placed on financial aid warning for one semester to allow them to get back in good standing. During that warning semester, students are eligible for financial aid but must meet the standards at the end of the next session or face suspension. If there are extenuating circumstances, students have the right to submit a Petition/Appeal for Reinstatement for one semester.

Financial Aid Remedial Education

Students enrolled in remedial courses must be accepted into an academic program of study in order to receive financial aid. Undergraduate-level college prep courses are eligible for financial aid as prerequisites to core program courses. A maximum of 30 credits in remedial education and college prep is fundable by financial aid while enrolled at MSTC.

Students must meet all other eligibility requirements for state and federal student financial aid. Examples include program enrollment, need, satisfactory academic progress, and citizenship. Remedial courses are calculated in the satisfactory progress requirements.

Financial Aid Repeating Course

Any course in which a "D" or better grade was received may not be repeated to qualify for financial aid unless a higher grade is required by the individual academic program; in which case only one repeat is allowable.

Shared Programs/Consortium Agreements

Shared programs are technical college programs that may be delivered at multiple locations based on an agreement between districts. The "home" college disburses the aid to the student; therefore, MSTC has no way to defer the student's tuition until the aid is received. It is the student's responsibility to pay the visiting college. Students must apply for financial aid at the college granting the degree/diploma. The "home" college submits a list of students in the shared program that are attending MSTC. We identify the number of credits the student is attending at MSTC so their aid can be based on the total credits at both colleges. At the end of the term, MSTC will verify grades received at the "home" college for satisfactory progress standards.

Consortium agreements are used for students who are enrolled at more than one college and are not in a shared program. It may also be used for students who are accepted in a program at one college but are not enrolled in any courses at that college. Students can legally only get paid from one college for the same semester. It is the student's responsibility to pay the secondary college. Contact the Financial Aid Office for more information.

Financial Aid Summer School

Financial aid may be available for the summer session if a student received financial aid the previous award year and has a complete file for the new aid year. Eligibility is determined by the results of the FAFSA, what aid was previously awarded, overall need, and enrollment. Awards are based on credit load.

Financial Aid - Transferring Colleges Mid-Year

If a student plans to transfer to another college and wants to receive financial aid through that college, the student must notify the MSTC Financial Aid Office so funds can be cancelled for the next term if necessary. Financial aid staff can also discuss the steps a student needs to complete for transferring financial aid eligibility.

GAINFUL EMPLOYMENT AND CONSUMER INFORMATION

Federal regulations require institutions that participate in the student financial assistance programs authorized under the Title IV of the Higher Education Act of 1965 report certain information about students who enrolled in Title IV eligible educational programs. The diversity report, gainful employment information, and the net price calculator are available to current and prospective students at mstc.edu. Please contact the Financial Aid Office if you have any questions.

VETERANS' BENEFITS

Financial assistance is available to qualified veterans, National Guard members, and reservists. Benefits are also available to widows and dependents of deceased or service-connected disabled veterans. In addition, WI GI Bill and Veteran's Tuition Reimbursement are available for Wisconsin Veterans. Further information is available from the County Veterans Service Office or the MSTC Financial Aid Office. Forms and procedures are available at mstc.edu/admissions/veterans-benefits.

Service Member Priority Registration Wisconsin Act AB201

Priority registration allows eligible service members to register for MSTC classes one day ahead of the official open registration date for any given semester. Eligible service members are those who have served, or are serving, on active duty under honorable conditions in the U.S. Armed Forces. Service members do not need to be using veteran benefits in order to be eligible for priority registration. Priority registration is extended to service members only and not their spouses or dependents. To learn more about receiving service member priority registration, visit mstc.edu/student-resources/service-member-priority-registration or call 888.575.MSTC.

CREDIT FOR PREVIOUS TRAINING

All students who are requesting veterans' benefits when enrolling at MSTC will be given credit for previous training, where appropriate. The total length of the training program will be

reduced proportionately. The student and the United States Department of Veterans Affairs (USDVA) will be advised in writing of the credit given to the student and the appropriate deduction in the total reduction in the total length of the program. All students receiving veterans benefits must have transcripts and other documents showing credit for previous training reviewed through the Student Services Office by the end of the first semester or term. Failure to do so will result in no further certification for veterans benefits until those transcripts have been provided.

SPOUSE/DEPENDENT BENEFITS

Qualifying spouses and children of eligible Wisconsin veterans receive a waiver of 100% of the program fees (tuition) and material fees at a Wisconsin Technical College System college. To be eligible, the spouse or child of the eligible veteran must be a Wisconsin resident. Spouses are only eligible for a set time period following the death or disability (30% or greater) of the veteran, and children must be 18-26 years old. There are some limitations to the total number of credits and semesters covered. All veteran eligibility determinations are made by the Wisconsin Department of Veterans Affairs. For more information, contact your local County Veterans Service Officer.

Post 911/Chapter 33 Federal benefits may be able to be transferred to qualifying spouses and children by the qualifying veteran. Contact your County Veterans Service Office for more details. Forms and procedures are outlined at mstc.edu/admissions/veterans-benefits.

Satisfactory Progress

Students applying for federal veterans benefits must be accepted in a VA-approved academic program of study and progressing toward graduation. All courses taken must be related to that program of study and cannot be certified for payment if not required for graduation.

All students receiving veterans benefits must maintain a minimal semester grade point average of 2.0. If students do not meet these standards, they will be placed on probation for one term. At the end of that semester, students must meet satisfactory progress standards

or will be required to write a letter of appeal to the VA Certifying Office demonstrating mitigating circumstances (defined by the VA as unanticipated and unavoidable events beyond a student's control with supporting evidence or documentation) to receive further federal veterans benefits. Students may be asked to submit an educational plan approved by his or her program counselor as a condition of the appeal.

Students will not be certified for federal veterans benefits for any future enrollment period unless the requirements for satisfactory progress have been met or a formal appeal has been approved. If the student fails to come off probation, the USDVA will be notified of suspension which may result in repayment to the Veterans Administration.

Failing Grade and Last Date of Attendance

If a student receiving federal veterans benefits is given a failing grade or grades, the college must report the last date of attendance in that class or classes to the Department of Veterans Affairs which may result in a repayment of benefits.

Withdrawal and Last Date of Attendance

If a student receiving veterans benefits officially withdraws from a class or classes, he/she must inform the MSTC Veterans Certification Office. If a student is receiving veterans benefits and fails to officially withdraw or walks away from a class or classes, the MSTC Veterans Certification Office is required to inform the USDVA of the last date of attendance. The Veterans Administration may require repayment of benefits for classes due to withdrawal or nonattendance.

Summer School – Continuous Payment

Veterans enrolling in summer school courses should be aware that the VA will consider start and end dates of each course to determine benefit calculation. Break or interval pay is no longer payable under any VA education benefit program unless under an Executive Order of the President or due to an emergency, such as a natural disaster or strike. This means that when your semester ends (e.g. December 15), your housing allowance is paid for the first 15 days of December only and begins

again when your next semester begins (e.g., January 10) and is paid for the remaining days of January. If you need to request summer certification, be sure to notify your campus veterans/financial aid supervisor.

Wisconsin GI Bill Tuition Remission Veterans

Under the Wisconsin GI Bill, eligible Wisconsin veterans who entered active military duty as a Wisconsin resident receive 100% remission of the program fees (tuition) and material fees at a Wisconsin Technical College System college. The Wisconsin GI Bill sets no income limits, ending periods following military service during which the benefit must be used or limits on the level of study. There are, however, some limitations to the total number of credits and semesters covered. If a veteran is receiving Chapter 33 Post-911 benefits, waiver amounts may be affected. Wisconsin GI Bill Funded students must maintain a minimum GPA of 2.0 to remain eligible.

GRADUATION

EARLY RELEASE FOR EMPLOYMENT

Student Early Release is a procedure whereby a potential graduate of one of MSTC's programs may be permitted to terminate his/her attendance at MSTC for employment, subject to the following conditions:

- Early release will be granted only if the employer requires the potential graduate to begin employment immediately. Students will be given early release only for full-time employment related to their training received at MSTC.
- Early release, if granted, cannot exceed two weeks prior to the last day of the semester. Such time will not be counted as absences. For additional policy information and procedures for receiving the early release, please contact your division dean or the registrar.

GRADUATE EMPLOYMENT FOLLOW-UP STUDIES

MSTC is required by the Wisconsin Technical College System (WTCS) to conduct graduate follow-up studies at intervals of one year and five years.

Every four years the WTCS conducts an employer follow-up survey to measure the employer satisfaction with WTCS graduates. This allows WTCS and MSTC to maintain important statistics regarding graduate employment and placement. Data is collected to provide information to prospective students, high school counselors, special interest groups, and the general public. In the six months following graduation from MSTC, an employment survey is mailed to each graduate to complete and return to the college for the graduate follow-up study. Phone calls are placed to graduates who do not return the surveys in an effort to obtain the most information possible. The Graduate Success information can be found at mstc.edu/gradfollowup.

GRADUATING WITH HONORS

Honor lists include students graduating from Associate Degree and Technical Diploma programs who have earned high academic levels as outlined below. Students graduating with honors are recognized with honor cords based on program GPA through the semester preceding the final semester. Final semester grades will be included in the program GPA calculation if course end dates occur prior to December 1st for the fall semester or May 1st for the spring semester.

Description:

- Graduation with Distinction
Gold Cord 3.75-4.00 GPA
- Graduation with High Honors
Silver Cord 3.50-3.74 GPA
- Graduation with Honors
Bronze Cord 3.25-3.49 GPA

The Office of Student Records determines program GPA for all MSTC graduates. A final program GPA will be determined and noted on the official transcript once all grades for the final semester have been submitted.

Honor cords are available for purchase at campus bookstores.

GRADUATION POLICY

MSTC is authorized by the Wisconsin Technical College System to grant associate degrees, technical diplomas, and certificates. The confer date is determined by the completion of all graduation requirements. To be eligible for a credential from MSTC, a student must fulfill the following requirements:

1. Applied and accepted into the program from which the student intends to graduate.
2. Satisfactorily complete all curriculum requirements based on the catalog year admitted into program or later. Division deans may, upon request, apply credit for prior learning and/or course substitutions towards program requirements.
3. Earn a program GPA of 2.0.
4. Technical diploma students must complete a minimum of 25% of their program's occupational-specific courses at MSTC. Associate degree students must complete a minimum of 25% of their program's technical studies courses at MSTC.
5. Students enrolled in Service & Health Division programs may have specific graduation requirements. Please see the division dean, appropriate associate dean, or program counselor for additional information.

Students should petition to graduate by completing and submitting a Graduation Application Form available at any MSTC Campus Office, or by submitting an application via MyMSTC student online services. Petitioning to graduate will invoke an evaluation to determine graduation eligibility.

Commencement exercises are held in December and May in Marshfield, Stevens Point, and Wisconsin Rapids. If you are scheduled to complete coursework by the end of the summer session, you may participate in the May commencement ceremony. If your coursework goes beyond summer, you may participate in the December commencement ceremony. Students with a substantiated Code of Conduct violation are not permitted to participate in commencement ceremonies.

Students must fulfill all financial obligations to MSTC prior to receiving their certificate, degree, or diploma. Diplomas are mailed to the student's home address on file approximately six weeks after the close of the semester in which they have completed all graduation requirements.

RETRAINING GUARANTEE

MSTC guarantees up to six free credits of additional instruction to graduates of programs of at least one year in length who do not obtain or maintain

employment in their program or related area within six months after graduation. The following two scenarios apply to the retraining guarantee:

1. To be eligible, graduates must certify, in writing, to the vice president of Academics:
 - They have not secured employment in the occupational field in which they received the degree or diploma.
 - They have actively pursued employment in their occupational field.
 - They have not refused employment in their occupational field or in a related field.
 - They have actively sought the assistance of the district career services office.
- or -
2. Within 90 days after their initial employment, the graduate's employer certifies to the vice president of Academics that the graduate lacks entry-level job skills and specifies in writing the specific areas in which the graduate's skills are deficient.

Per Section 38.24 (4), Wisconsin Statute

The graduate is responsible for all expenses other than tuition (e.g., textbooks, supplies, and incidental fees). The courses must be within the same occupational program that the graduate's degree or diploma was received. The credits must be courses offered by MSTC and be currently scheduled for the general public. Once a graduate accepts a position in their program or related area, they are no longer eligible for this guarantee.

TRANSCRIPT REQUESTS

Academic records are kept on permanent file by the Office of Student Records. All requests for official transcripts must be submitted either online at mstc.edu/mymstc, in writing, in person, by fax, or by mail. Telephone or email requests are not accepted. Requests for the release of your transcripts are made to:

Mid-State Technical College
Office of Student Records
ATTN: Transcripts
500 32nd Street North
Wisconsin Rapids, WI 54494

Fax: 715.422.5561

Include the following information to expedite the processing of your transcript:

STUDENT HANDBOOK

- Name and complete mailing address to whom you want the transcript released
- Complete name and any other name used while you were in attendance at MSTC
- Social security number or MSTC student ID number
- Current mailing address
- Telephone number
- Signature and date accompanied by a statement authorizing MSTC to release records to a third party

Your letter must include your signature or your request will not be honored. Per the Family Educational Rights and Privacy Act (FERPA), your signature is required for release of education records to a third party.

There is a \$6 charge for on-demand processing of official transcripts. All other transcript requests are free of charge. Official transcript fees and any outstanding financial obligations to the college must be paid before a transcript is issued.

Unofficial transcripts are also available to students and graduates. There is no charge for unofficial copies of student transcripts.

In accordance with the Family Educational Rights and Privacy Act (FERPA), MSTC does not fax transcripts.

PRIVACY

NOTICE OF FINANCIAL PRIVACY RIGHTS

MSTC is committed to ensuring the privacy and accuracy of all confidential information. As part of the college's commitment to maintaining the privacy of students, MSTC has developed this privacy statement. The statement has two purposes:

1. To educate users about privacy issues.
2. To inform users about specific privacy policies and guidelines employed at MSTC. MSTC complies with the Family Educational Rights and Privacy Act (FERPA), which prohibits the release of education records other than public directory information, without student permission. For additional details

on FERPA, visit www.ed.gov/offices/OI/fpco/ferpa/. MSTC complies with the Gramm-Leach-Bliley Act (GLB) of 1999 which requires institutions of higher education that disburse federal aid to maintain student (customer) privacy through FERPA and to maintain safeguards for protecting private financial information of students (customers). See www.ftc.gov/privacy/glbact/index/html for more information.

For purposes of FERPA and GLB, MSTC considers students, employees, alumni, or any other third party engaged in a financial transaction with MSTC as "customers." Customer information that must be safeguarded is "any record containing nonpublic personal information about a customer, whether in paper, electronic, or other form." It includes financial information, academic and employment information, and other private paper and electronic records.

Sharing of Customer Information

MSTC will only collect personal information which is knowingly and voluntarily provided by customers, for example: sending emails; completing forms; registering for classes, events, or other programs; responding to surveys; or ordering merchandise. If personal information is provided to MSTC, the college will use this information to respond to the customer's needs. MSTC may also contact customers to provide information about college activities, programs, membership, and development opportunities and special events that may be of interest. MSTC only shares information with other parties when one or more of the following conditions apply:

- MSTC requested your consent to share the information
- MSTC needs to share personal information to provide the service or product requested by the customer
- MSTC needs to send information to companies who work on behalf of the college to provide a service or product to customers
- MSTC is responding to subpoenas, court orders, or any other legal process
- MSTC finds it necessary to protect and defend the legal rights and/or property of MSTC

MSTC does not actively share personal information about students gathered through web servers or via forms. Because MSTC is a public institution, some information collected from MyMSTC and student data forms may be subject to Open Records Law. This means that while information is not actively shared, in some cases the college may be compelled by law to release directory information regarding students. The college collects student social security numbers to provide student financial aid and to provide data to the State of Wisconsin for state purposes. MSTC is also required to share student information, including social security numbers, with the State of Wisconsin and the United States Government for purposes of receiving aid for programs and funding for the college or for the purposes of federal student aid. Sharing of this information is permitted under state and federal statute. MSTC will also share directory information regarding students with educational partners for purposes of promoting educational programs.

Opt Out From Sharing of Information

MSTC does, upon explicit request of users, share directory information with other parties to provide services or information to students. Consistent with FERPA, the college does not release personal student information other than public directory information to other parties unless an explicit written authorization is submitted requesting the institution to do so. Students who wish to have their information removed from the campus directory should visit their local Campus Office or contact 888.575.MSTC.

Privacy Provisions

MSTC is in compliance with FERPA. Directory information (e.g., name, address, enrollment at the college, degree information), the list of which is published yearly in the Student Handbook, is considered public (unless a student has requested otherwise in writing). All non-directory information is restricted or confidential, what GLB calls "non-public." Under FERPA, restricted information (e.g., academic or financial records) is released outside the college only with the student's written consent. Designated school officials, including faculty, key employees, and outside service vendors have

access to restricted, "non-public" information on a need-to-know basis only. In compliance with GLB and long standing good practice, the college extends FERPA privacy protections to all customers of the college. The Student Records Office will provide guidance in complying with all FERPA privacy regulations. Each department is responsible for securing customer information in accordance with all privacy guidelines.

Security Provisions

With respect to the safeguarding provisions of the GLB Act, MSTC GLB Information Security Plan herein is designed to ensure the security, integrity, and confidentiality of non-public customer information, protecting it against anticipated threats, and guarding it against unauthorized access or use. Covered under the plan are administrative, technical, and physical safeguards used in the collection, distribution, processing, protection, storage, use, transmission, handling, or disposal of non-public customer information. The plan covers actions by both employees of the college and vendors that the college partners with to provide services to students. MSTC does its best to ensure that the personal information retained about individuals is accurate. Every faculty member, staff member, and student has the ability to check personal information such as his or her name, address, and phone number through MyMSTC and to update it at any campus office. MSTC has deployed extensive security measures to protect against the loss, misuse, or alteration of the information under college control.

Changes to This Privacy Statement

This document was last updated April 2015. We will occasionally update this privacy statement. When we do, we will also revise the "last updated" date.

PHOTOGRAPHIC IMAGES (CONSENT OF)

Registration as a student and attendance at or participation in classes and other campus and MSTC activities constitutes an agreement by the student to MSTC's use and distribution (both now and in the future) of the student's image or voice in photographs, videotapes, electronic reproductions,

or audiotapes of such classes and other campus and MSTC activities. Students who wish to opt out of this consent should address this in writing to the director of communications.

SOLOMON AMENDMENT

The Solomon Amendment, a federal law, mandates that institutions receiving certain federal agency funding must fulfill military recruitment request for access to campus and for lists containing student recruiting information. Recruiters may receive recruiting information for either the immediately previous, current, or future term for all students age 17 and older who are/were registered for at least one credit hour in the requested semester/term. MSTC complies with the regulations of the Solomon Amendment.

STUDENT & EMPLOYEE RIGHT TO KNOW REPORT

Mid-State Technical College is committed to maintaining an environment that supports student learning and achievement.

The Student Right to Know Report complies with various state and federal laws requiring that certain information be provided to all students and employees annually to promote a safer environment. It includes information from policies concerning alcohol & drugs, sexual harassment, and equal opportunity, as well as student privacy information, campus security information, and crime statistics for the previous three years. This report is an excellent tool to learn what is necessary to protect yourself, assist your friends, and join us in efforts to make a difference in our campus communities.

To view the Student & Employee Right to Know Report online, go to mstc.edu/student-resources/policies/right-to-know.

Paper copies of the report are provided upon request. Please contact Student Services at 715.422.5445 or Human Resources at 715.422.5321. Individuals who are hearing impaired can use the Wisconsin Relay Service number 711.

STUDENT HEALTH CARE RECORDS (CONFIDENTIALITY)

In accordance with Wisconsin State

Statute 146.82, all student health care records shall remain confidential, released only to the persons designated in the statute, provided that informed consent of the student is obtained prior to the release of information. Exceptions to the above reside within Wisconsin Statutes 48.981, 48.90, 146.995, 69.14, 979.01, 146.025, 143.04, 143.07, and 143.12, which requires mandatory reporting of specific circumstances to public authorities regardless of whether the individual involved has consented to the release of such information.

Upon review by, or if shared with an MSTC educational professional, medical and counseling records become part of the student's educational records and will be treated in accordance with FERPA (Family Educational Rights and Privacy Act) and HIPAA (Health Insurance Portability and Accountability Act) recordkeeping requirements.

STUDENT RECORDS & PRIVACY RIGHTS

The Family Educational Rights and Privacy Act (FERPA) of 1974 protects the privacy of educational records, establishes the rights of students to inspect and review their educational records and provides guidelines for the correction of inaccurate or misleading data through informal and formal hearings.

Education Records

Education Records are defined as "records, files, communications, and other materials in any recorded medium that relate directly to a student and are maintained by MSTC." These records include, but are not limited to, academic records, financial records, disabilities information, counseling documentation, and instructional progress. Health records that are shared with counselors or staff of MSTC for instructional or counseling purposes are classified as student records by FERPA.

Release of Non-Directory Information

Records are not released to parents without consent of the student. Parents should arrange with their children for sharing of information. Non-directory information is not released to anyone without written permission from the student, except for the following agencies which can receive this data

without the student's permission as provided by the Privacy Act:

- Agencies providing financial assistance to the student, such as employers, Division of Vocational Rehabilitation, and the Veterans Administration.
- The Wisconsin Technical College Board as part of the process of securing state funds.
- MSTC designated school officials who have a legitimate educational need for the information. Designated school officials are defined as faculty, employees, auditors, and outside service vendors, who require non-directory information to perform a task or assignment.
- Courts or legal officers on the basis of a subpoena.
- Properly authorized educational authorities for the purpose of research, provided that the information is not given in personally identifiable format.
- State and local officials to whom disclosure is required by state statute adopted prior to November 19, 1974.
- Other colleges should an MSTC student seek to enroll in another college or university to complete a course or degree.

MSTC may disclose personally identifiable information from an education record to appropriate parties, including parents of an eligible student, in connection with an emergency if knowledge of the information is necessary to protect the health or safety of the student or other individuals.

MSTC maintains a record of all releases of student records. A student may request to view a copy of what was shared by contacting the registrar at 715.422.5502.

Right to Review and Inspect Education Records

Students have the right to the following:

1. Inspect and review information contained in educational records. All requests to review educational records must be made in writing to the student records manager. Students are provided this opportunity for review within 45 days from the date of receipt of the

request. Students may be provided with copies of their education records with appropriate written consent should they be unable to come to the appropriate campus location for review of their records. Official copies of student records may not be removed from MSTC.

2. Challenge the contents of their educational record in writing to the student records manager.
3. Request a hearing in writing if the outcome of the challenge is unsatisfactory.
4. Submit an explanatory statement for inclusion in the educational record if the outcome of the hearing is unsatisfactory.
5. Prevent disclosure with certain exceptions of personally identifiable information.
6. Secure a copy of the institutional policy. Copies of the policy can be obtained from the student records manager.
7. File complaints regarding alleged violations of FERPA with the Family Policy and Compliance Office.

Directory Information

In complying with FERPA guidelines, MSTC will release the following directory information without the consent of the student:

- Student's name
- Student ID number
- Date of birth
- Student status
- Address
- Email address
- Telephone number
- Program(s) of study
- Dates of enrollment
- Degree(s) and award(s) received (including honors)
- Past and present sports and student activities
- Educational institutions attended
- Student photographs

Students have the right to inform MSTC that any or all of the above information should not be released without their prior consent. Students who wish to do this must complete the Request to Prevent Disclosure of

Directory Information form revoking any or all of the public information listed. Revocation remains in effect until the student notifies MSTC of a change. Forms are also available at mstc.edu/student-resources/registration or any Campus/Student Services Office.

Request for Nondisclosure of directory information does not apply to registered sex offenders whose information has been provided to MSTC under the Wetterling Act, including information made available by the Wisconsin sex offender registry and community notification program.

STUDENT CODE OF CONDUCT

MSTC believes that all members of the college community have the responsibility to contribute to a positive learning environment. Every student has the right to be educated under the conditions of respect, dignity, and safety. Students are expected to conduct themselves in a manner that does not interfere with the educational process, endanger the safety or welfare of others, or represent a violation of established statutes, ordinances, or public laws.

Standards of conduct are enforced on all MSTC property, any facility used by the college for educational purposes, and at college sponsored events. The following student conduct regulations are intended to give students general notice of prohibited conduct. However, they are not meant to define misconduct in every circumstance. Standards violations include (but are not limited to) the following:

1. Noncompliance with all MSTC policies including, but not limited to, those found at mstc.edu/students/policies.htm.
2. Noncompliance with civil and criminal laws.
3. All forms of dishonesty, including knowingly furnishing false information to MSTC, or the alteration or use of MSTC documents or instruments of identification with intent to defraud.
4. Conduct which disrupts the normal operations of MSTC and/or classroom instruction.

5. Conduct which is disorderly, lewd, or indecent, including physical abuse, verbal abuse, threats, intimidation, harassment, sexual offenses, coercion, and/or any conduct which threatens or endangers any person.
6. Theft of, or damage to, MSTC or personal property.
7. Failure to comply with a reasonable request or directive of an MSTC staff member.
8. Use, possession, or distribution of illegal drugs or alcohol.
9. Possession of firearms, explosives, dangerous articles, and/or incendiary devices.
10. Abuse or misuse of computers per Network Policies.

Incident reports should be completed and filed with the dean of student support or campus deans. Students found in violation of the Student Code of Conduct may be subject to disciplinary sanctions. Sanctions may include, but are not limited to, verbal and/or written warning, probation, suspension, expulsion, restitution, or other discipline deemed appropriate.

The appeal process (academic and non-academic) is outlined in the "Appeal Process/Grading System/Graduation" section of this handbook and the Student Code of Conduct. Sanctions may be imposed for violations of these rules whether or not criminal or civil sanctions are pursued. Apparent or alleged violation of local ordinances and federal or state law on college premises or at college sponsored or supervised activities will be forwarded to local law enforcement authorities. The current Student Code of Conduct can be found at mstc.edu/studentcodeofconduct.

TECHNOLOGY

TECHNOLOGY COMPUTER NETWORK & PUBLIC WIRELESS ACCESS

All users of MSTC information technology resources are required to abide by the acceptable use agreement terms and agree to all terms in the Network Policies found at mstc.edu/student-resources/technology/network-policies. These terms govern the access to and use of the information

technology applications, services, and resources of MSTC and the information they generate. This access is considered a necessary privilege in order to perform authorized functions. Users shall not knowingly permit use of their entrusted access control mechanism for any purposes other than those required to perform authorized functions. The college reserves the right to, without notice, limit or restrict access and to inspect, remove, or otherwise alter any data, file, or system resource that may undermine the authorized use of any MSTC IT resources. Violations of the Acceptable Use Policy are subject to disciplinary action.

COMPUTERS & INSTRUCTIONAL TECHNOLOGY AT MSTC

In an effort to prepare graduates for today's workplace, MSTC integrates computers and other technology into many of its courses. Students should expect to use a computer for a variety of tasks in classes and for homework assignments including but not limited to word processing, presentation, and web-based instruction, as well as to receive important college communications via college-assigned email.

EMAIL

All students are granted an email address through Microsoft Office 365. Students will retain their email address for 180 days after the end date of the last semester the student was enrolled in. Important information regarding registration, billing, financial aid, grades, and scheduling information are distributed to students via their MSTC email account. It is the student's responsibility to open and read their email regularly. **MSTC email is the college's primary means of communicating with students.** Instructors may utilize the college-assigned email system to mail student academic progress information that is private. It is the student's responsibility to ensure that their email and network account password is not shared with other persons.

Please go to mstc.edu/student-resources/email-assistance for instructions on accessing your email

account. Problems or questions may be directed to the Help Desk at 877.469.6782.

HELP DESK SERVICES

Students who have questions about accessing MSTC online services can contact the Help Desk at 877.469.6782. All student online services and MSTC Help Desk services are available 24-hours a day, seven days a week, including holidays.

Additional information regarding technology at MSTC can be found at mstc.edu/student-resources/technology.

ONLINE SERVICES-MYMSTC

Student online services are available to all enrolled students at MSTC. Students can access the following services via MyMSTC: accept/decline/review financial aid awards, search/add/drop classes, enrollment verification, grades, request official transcripts, view unofficial transcripts, pay by check or credit card, payment plan enrollment, review holds, student class schedules, transfer credit summary, and apply to graduate.

Admitted students can gain initial access to MyMSTC by navigating to mstc.edu/mymstc and selecting "Need to Create a Password." Passwords should be kept confidential and not shared with other persons for any reason. Parents are not issued login information for their children.

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INDEX

-A-

ABC Electrician Apprenticeship	112
ABC Heavy Equipment Operator Apprenticeship ..	112
About MSTC.....	4
Academic Calendar	3
Academic Integrity	185
Accounting	8-9
Accreditation	5
Accreditation Commission for Education in Nursing...	72
Accuplacer.....	7
Adding/Dropping Courses	185
Administrative & Instructional Staff	202-205
Administrative Professional	10-11
Admissions & Enrollment	185-190
Admission to a Program.....	185
Advanced Industrial Process Control Certificate	58
Affirmative Action.....	6
Age Requirement for Enrollment.....	185-186
Appeals	190-192
Appeals Process (Admissions)	190-192
Appeals Process (Financial)	194
Application Fee	188
Apprenticeship	112
Attendance.....	186
Automotive Technician	12-13

-B-

Barber/Cosmetology Instructor.....	113
Barber Technologist.....	14-15
Board of Directors	6
Bureau of Apprenticeship Standards.....	112
Business Management	16-18
Business Management Specializations.....	18

-C-

Campus Locations	1
Career Awareness and Assessment.....	7
Carpenter Apprenticeship.....	112
Central Service Technician.....	20-21
Civil Engineering Technology- Highway Technician	22-23
CLEP Examine	187
Clinical Research Coordinator	24-25
Commission on Accreditation for Respiratory Care ...	96
Commission on Accreditation of Allied Health Education Programs	68, 104
Computer & Instructional Technology at MSTC...	201
Core Abilities.....	5
Core Values	5
Cosmetology.....	26-27

Course Cancellation	186
Course Descriptions (General Education)	246-250
- Communication Skills	167-168
- General College Skills	167
- Mathematics.....	168-169
- Natural Science.....	169-170
- Social Science.....	170-171

Course Descriptions (Programs)	114-166
- Accounting.....	117-118
- Automobile-Mechanical	129-130
- Barbering/Cosmetology.....	139-142
- Bio-Fuels/Bio-Mass.....	139
- Business Administration	118-119
- Central Services Tech	153
- Civil Engineering Technology.....	163-164
- Combustion Engines.....	130-131
- Computer Software	119-120
- Criminal Justice	142-146
- Early Childhood Education.....	125-129
- Educational Services	149
- Emergency Medical Services.....	151-153
- Electrical Engineering Technology	166
- Electronics Technology.....	159-162
- Energy Conservation	136
- Farm Business Management.....	117
- Gerontology	157
- Global Language & Studies	122
- Health and Wellness.....	157-158
- Horticulture	114
- Industrial Equip Mechanic.....	134-135
- Industrial Manufacturing Tech	164-166
- IT Application Development & Web	123-124
- IT Computer Support	124
- IT Networking and Security.....	122-123
- Laboratory Assistant.....	147-148
- Machine Shop	131-132
- Marketing	120-121
- Mechanical Technology.....	163
- Medical Assistant	146-147
- Medical Records.....	149-150
- Medical Support.....	147
- Medical Terminology.....	139
- Nursing	153-157
- Office Systems/Technology.....	121
- Production Agriculture	116-117
- Related Welding.....	132-134
- Renewable Energy-Electricity.....	136-138
- Renewable Energy-Foundations	135
- Renewable Energy-Thermal	138-139
- Research Support Services	158-159
- Respiratory Care Practitioner	148-149
- Sensory & Reading Impaired Services.....	153
- Small Business.....	122
- Supervision & Leadership Development... ..	124-125
- Surgical Technologist	147

Courses Descriptions (Personal & Professional Enrichment)	172-184
- Barbering/Cosmetology.....	175
- Civil Engineering Technology.....	184
- Computer Software	172
- Criminal Justice	180-181
- Early Childhood Education.....	173-174
- Electricity.....	174-175
- Emergency Medical Service	182-184
- Fire Technology.....	175-180
- Group Dynamics for Traffic Safety.....	184
- Industrial Hydraulics-Pneumatics.....	175
- Machine Shop	175
- Marketing	172
- Medical Records.....	182
- Medical Support.....	181-182
- Motorcycle/Moped Drive Ed.....	184
- Nursing	184
- Office Systems.....	172-173
- Plumbing.....	175
- Real Estate.....	173

- Responsible Beverage.....	174
- Respiratory Care Practitioner	182
- Surgical Tech	182
- Supervision-Management	175
- Supervisory Management	173

Course Numbering System	186
Court Reporting.....	28-29
Credit for Prior Learning.....	186-188, 191
- Articulated Credit-Advanced Placement.....	186
- Credit by Standardized Examination.....	187
- Credit for Life Experience	187
- Transfer of Credits	187-188
Criminal Justice-Corrections.....	30-31
Criminal Justice-Law Enforcement	32-33

-D-

Diesel & Heavy Equipment Technician.....	34-35
Directory Information	199-200
Disability Services.....	7, 192
Disclaimer.....	2
Discrimination.....	1, 6
Dismissal/Suspension	188

-E-

Early Childhood Education.....	36-38
Early Release for Employment.....	196
Electrical Power Engineering Technician.....	40-41
Electric Metering Technician Apprenticeship.....	112
Electives	188
Email.....	201
Emergency Medical Technician	42-43
EMT-Advanced	113
EMT-Intermediate	113
EMT-Paramedic.....	44-45
English Language Learner (ELL)	7
Enrollment Status Classification	188
Equal Opportunity.....	1, 6
Equal Education Opportunity.....	6
Equal Employment Opportunity	6

-F-

Farm Business & Production Management.....	46-47
Farm Operation	48-49
Family Education Rights and Privacy Act (FERPA).....	191, 198-200
Fees and Other Expenses	188
Financial Aid.....	192-196
Financial Privacy Rights	198-199
Fire Service Training	113
Foundation (Scholarships)	193

-G-

Gainful Employment and Consumer Information ...	195
---	-----

Gas Metal Arc Welding (GMAW) Certificate	110
General Education Courses.....	167-171
General Education Development (GED®).....	7
Gerontology	50-51
Grade Point Average (GPA).....	188
Grading	188-189
Graduate Employment Follow-up Studies ..	196-197
Graduating with Honors.....	197
Graduation	196-198
Graduation Policy.....	197
Guarantee.....	6

-H-

Harassment.....	6
Health Care Records (Confidentiality)	199
Health and Wellness Promotion	52-53
Health Informatics and Information Management..	54-55
Help Desk Services.....	201
High School Equivalency Diploma (HSED).....	7
Hold Status.....	189
Home School Attendance	189
Honors (Graduating with)	197

-I-

Individualized Technical Studies.....	171
Industrial Mechanical Technician	56-57
Instrumentation & Controls Engineering Technology.....	58-59
International Student Admission	189
Ironworker Apprenticeship.....	112
IT Network Specialist.....	60-61
IT Software Developer.....	62-63

-L-

Lakeshore Technical College	29, 85
Law Enforcement Academy.....	113
Law Enforcement Certification Track-DAAT	113
Law Enforcement Certification Track-Firearms ...	113
Law Enforcement Certification Track-Traffic	113
Learning Commons.....	7
Library.....	7
Loans (Student).....	193

-M-

Machine Tool Technician	64-65
Maintenance Mechanic/Millwright Apprenticeship ...	112
Marketing	66-67
Medical Assistant.....	68-69
Medical Coder.....	70-71
Midwest Student Exchange Program	189
Military (Active).....	185, 195

Minnesota Reciprocity	189-190
Mission	5
Mobile Device Enhancement	67
MyMSTC (Online Services)	201

-N-

National Accrediting Agency for Clinical Laboratory Sciences	86
National Registry Exam	43, 45, 80, 82
No-Show Policy	190
Notice of Financial Privacy Rights	198-199
Nursing.....	72-75
Nursing Assistant.....	76-77
Nursing Assistant-Acute Care.....	77

-O-

Office Support Specialist.....	78-79
Online Courses.....	171
Online Services (MyMSTC)	201
Open Records Law	198

-P-

Paramedic Technician	80-82
Pell Grant.....	193
Personal & Professional Enrichment Courses.....	172-184
Personal Care Worker.....	77
Pharmacy Technician	84-85
Phlebotomy Technician	86-87
Photographic Images (Consent of).....	199
Plumber Apprenticeship.....	112
Practical Nursing.....	88-91
President's Message	4
Priority Registration (Service Members).....	185, 195
Privacy	198-200
Process & Biorefinery Technology	92-93
Program Change	185
Program By Location (MSTC).....	208

-R-

Re-Admission to MSTC	185
Records & Privacy Rights	199-200
Refund Policy (Tuition)	190
Renewable Energy Specialist.....	94-95
Respiratory Therapist.....	96-97
Retraining Guarantee	197
Right to Know Report.....	199

-S-

Scholarships (Foundation)	193
Server Automation and Mobile Technology Synchronization	98-99

Solar Electric Technician	100-101
Solomon Amendment	199
Spouse/Dependent Benefits	196
Stainless Steel Welding Basics GTAW Certificate ...	110
Steamfitter Apprenticeship.....	112
Steamfitter-Service Apprenticeship.....	112
Strategic Directions	6
Student & Employee Right to Know Report.....	199
Student Code of Conduct.....	191, 197, 200-201
Student Early Release.....	196
Student Health Care Records (Confidentiality)...	199
Student ID	188
Student Loans.....	193
Student Records & Privacy Rights	199
Students Called to Active Military	190
Study Skills.....	7
Supervisory Management.....	102-103
Supplemental Education Opportunity Grant (SEOG)..	193
Surgical Technologist.....	104-105
Sustainable Heating and Cooling Technician ...	106-107

-T-

Table of Contents	2
Technical Skills Attainment	8, 10, 16, 66, 78
Technology	201
Technology Computer Network & Public Wireless Access	201
Testing Center	7
Transcript Requests	197-198
Tuition Refund Policy.....	190

-U-

Urban Forestry Technician	108-109
---------------------------------	---------

-V-

Veterans' Benefits.....	195-196
Vision.....	5

-W-

Welding	110-111
Wisconsin Board of Nursing	72, 75, 88, 91
Wisconsin Department of Health Services Bureau of Quality Assurance.....	76
Wisconsin GI Bill.....	196
Wisconsin Higher Education Grant (WHEG).....	193
Wisconsin Nurse Aide Registry	77
Wisconsin Pesticide Certification Exam.....	108
Wisconsin Relay Service	1
Withdrawal from College	190
Work-Study.....	193

MSTC PROGRAMS BY LOCATION

Program	Adams County Center	Marshfield Campus	Stevens Point Campus	Wisconsin Rapids Campus	100% Online
Accounting		X	X	X	
Administrative Professional		X	X	X	
Automotive Technician				X	
Barber Technologist				X	
Business Management *		X	X	X	X
Central Service Technician		X			
Civil Engineering Technology-Highway Technician				X	
Cosmetology				X	
Court Reporting			X		
Criminal Justice-Corrections				X	
Criminal Justice-Law Enforcement				X	
Diesel & Heavy Equipment Technician				X	
Early Childhood Education			X		
Electrical Power Engineering Technician				X	
Emergency Medical Technician		X	X	X	
EMT-Paramedic				X	
Farm Business & Production Management		Courses offered at MSTC's outreach centers.			
Farm Operation		X			
Gerontology			X		
Health and Wellness Promotion		X	X	X	
Health Informatics and Information Management		X	X	X	
Industrial Mechanical Technician				X	
Instrumentation & Controls Engineering Technology				X	
IT Network Specialist			X	X	
IT Software Developer			X	X	
Machine Tool Technician				X	
Marketing			X	X	
Medical Assistant		X	X		
Medical Coder		X	X	X	
Nursing		X		X	
Nursing Assistant		X	X	X	
Office Support Specialist		X	X	X	
Paramedic Technician				X	
Pharmacy Technician			X		
Phlebotomy Technician		X	X		
Practical Nursing		X		X	
Process & Biorefinery Technology				X	
Renewable Energy Specialist				X	
Respiratory Therapist		X			
Server Automation and Mobile Technology Synchronization			X	X	
Solar Electric Technician				X	
Supervisory Management		X	X	X	
Surgical Technologist		X			
Sustainable Heating and Cooling Technician				X	
Urban Forestry Technician				X	
Welding				X	

Students can take classes at Adams County Center toward completion of many associate degrees and technical diplomas. Visit Adams County Center or contact a new student specialist for more information.

*Program specializations may not be available at all locations or online.

2015-2016
STUDENT CATALOG

MID-STATE TECHNICAL COLLEGE

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