

accounting

Associate in Applied Science (AAS) Program Code: 10-101-1 Total Credits: 63-64

Mid-State's Accounting program is ideal for students with strong logic and attention to detail. Graduates are prepared for entry-level positions in exciting business and industry settings as well as public accounting firms and not-for-profit businesses. The program provides stimulating cooperative learning activities, some taking you outside the classroom for real-world experience. Class activities include hands-on income tax and payroll projects, computerized simulations, and guest lectures.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where:	
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

Other:



ADAMS CAMPUS 401 North Main Adams, WI 53910



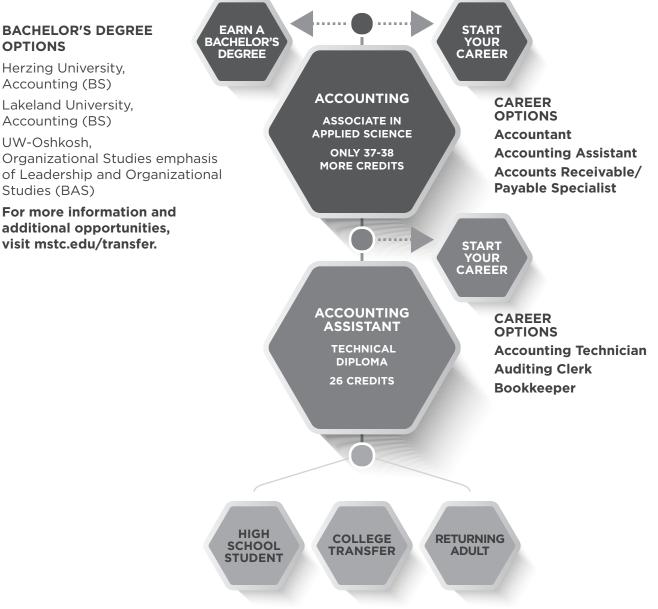
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



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 information to support planning and decision making.
- Perform payroll preparation, reporting, and analysis tasks.
- Perform cost accounting preparation, reporting, and analysis tasks.
- Perform individual and/or organizational 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.
- Manage accounting data through advanced spreadsheet applications.

TECHNICAL SKILLS ATTAINMENT

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. Students will be assessed on the TSA outcomes in the Accounting Capstone and Cost Accounting courses.

NOTES:



STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10101111 10101120 10102101 10103106 10801136	16 cre Accounting I Payroll Accounting Intro to Business Microsoft Office-Introduction English Composition 1	edits 4 3 3 3 3
Term 10101106 1010113 10101123 10101129 10804107	16-17 cre Excel for Accounting Accounting II Income Tax Accounting QuickBooks Applications College Mathematics -or- Intermediate Algebra with Applications	edits 3 4 3 3 3 4
Term 10101116 10101128 10101131 10102104 10102110 10809195	16 cre Intermediate Accounting I Managerial Finance Government and Nonprofit Accounting Business Law -or- Employment Law Economics	edits 4 3 3 3 3 3
Term 10101125 10101158 10801196 10809122 10809172 10809196 10809188 10809198	15 cre Cost Accounting Accounting Capstone Oral/Interpersonal Communication -or- Speech Intro to American Government -or- Introduction to Diversity Studies -or- Intro to Sociology Developmental Psychology -or- Intro to Psychology	edits 3 3 3 3 3 3 3
Total credits 63-64		

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10101111 10103106	Accounting I Microsoft Office-Introduction	7 credits 4 3
Term 10101113 10801136	Accounting II English Composition 1	7 credits 4 3
Term 10101120 10102101 10804107	9- Payroll Accounting Intro to Business College Mathematics -or- Intermediate Algebra with Application	10 credits 3 3 3
Term 10101123 10101106 10101129	Income Tax Accounting Excel for Accounting QuickBooks Applications	9 credits 3 3 3
Term 10101116 10102104 10102110	Intermediate Accounting I Business Law -or- Employment Law	7 credits 4 3
Term 10101125 10801196 10809188 10809188	Cost Accounting Oral/Interpersonal Communication - Speech Developmental Psychology -or- Intro to Psychology	9 credits 3 or- 3
Term 10101131 10101128 10809195	Government and Nonprofit Account Managerial Finance Economics	9 credits ing 3 3 3
Term 10101158 10809122 10809172 10809196	Accounting Capstone Intro to American Government -or- Introduction to Diversity Studies -or Intro to Sociology	6 credits 3 -
	Total cred	lits 63-64

Accounting Capstone

10101158.....**3 credits** This project based course gives students the opportunity to demonstrate technical competency in areas covered in program courses. Financial accounting, management accounting, payroll accounting, tax accounting, and cost accounting are used. The project simulates many of the tasks students are expected to perform as accounting professionals. *Prerequisite: Twelve 10-102 Accounting credits*

Accounting I

10101111......4 credits 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. Also 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.

Accounting II

10101113......**4 credits** 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; Corequisite: Microsoft Office-Introduction 10103106 or Excel-Beginning 10103123*

Business Law

10102104.....**3 credits** Introduces 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.

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Cost Accounting

10101125.....**3 credits** 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*

Developmental Psychology

10809188.....**3 credits** Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Economics

10809195**3 credits** Provides an overview of how a market-oriented economic system operates and surveys the factors that 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Employment Law

10102110.....**3 credits** Introduces a broad scope of employment laws and provides the opportunity to apply these laws to the employment arena. Includes 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 ACA; and unemployment and worker's compensation insurance.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Excel for Accounting

10101106.....**3 credits** Microsoft Excel is a vital tool for many accounting tasks. This course covers basic and advanced features within Excel and relates them to various accounting tasks. Using Excel, students will perform accounting tasks and will experience the gathering, analysis, and reporting of accounting data. *Prerequisites: Accounting I 10101111 and Microsoft Office-Introduction 10103106 or Excel-Beginning 10103123*

Government and Nonprofit Accounting

10101131......3 credits Emphasizes the basic concepts, techniques, and terminology of fund accounting as utilized by governmental entities. Institutional accounting for educational institutions and hospitals, and the uniqueness of accounting for not-forprofit organizations and agencies, are also studied. *Prerequisite: Accounting II 10101113*

Income Tax Accounting

10101123.....**3 credits** Applies current tax laws in preparing individual tax returns and supporting forms and schedules.

Intermediate Accounting I

10101116......**4 credits** This course builds upon financial accounting concepts covered in Accounting I and Accounting II. Topics include the conceptual framework as the basis of developing accounting guidance, multi-purpose financial statements, short and long-term assets, time value of money concepts, revenue recognition, and an overview of auditing concepts. *Prerequisite: Accounting II 10101113*

Intermediate Algebra with Applications

10804118......**4 credits** 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; and algebra of inverse, logarithmic, and exponential functions. *Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 263 and QAS 234 or ACT of 19 or QAS of 245, or Pre-Algebra 10834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Intro to American Government

10809122.....3 credits 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Business

10102101......3 credits 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.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Sociology

10809196.....**3 credits** Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Diversity Studies

10809172....**3 credits** 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Managerial Finance

10101128.....**3 credits** Focuses on the corporate finance function including role of corporate finance professionals, time value of money, cost of capital, valuation, capital structure, and capital budgeting issues. Students will also be introduced to capital budgeting analysis, cost-volume-profit analysis, profit planning, and differential analysis.

Prerequisite: Accounting II 10101113

Microsoft Office-Introduction

10103106.....**3 credits** Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, PowerPoint, and Outlook) while reinforcing the students' knowledge of computer concepts, Windows Explorer, and web usage. Students should possess basic keyboarding, mouse and Windows 10 skills. Students may develop these skills in the LiNK while concurrently enrolled in this course.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Payroll Accounting

10101120.....**3 credits** 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*

QuickBooks Applications

Uses the computer as a tool to reinforce and build on accounting concepts. Students prepare financial statements and managerial reports, produce business documents, and account for service and merchandising business entities. *Prerequisites: Accounting I 10101111; Microsoft Office-Introduction 10103106 or Excel-Beginning 10103123*

Speech

108011983 credits

Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*



accounting assistant

Technical Diploma Program Code: 31-101-1 Total Credits: 26

The Accounting Assistant program at Mid-State is ideal for students with strong logic and attention to detail. The program develops financial and managerial accounting skills and an understanding of financial reporting. Students also learn critical aspects of budgeting and technology as well as communication skills to be successful in their role. Students in the program will develop the skills needed to record, post, and reconcile accounting data in the areas of accounts payable, accounts receivable, sales, purchasing, budgeting, and payroll. They will also learn to summarize and report financial information, and provide support within the financial functions of an organization. Students also gain basic tax preparation skills. Includes cooperative learning activities that provide real-world experiences, both inside and outside the classroom.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

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Form(s):

□ Follow-Up Appointment:

Where:

When:_	
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Official Transcripts
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 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

Other:	

mstc.edu 888.575.6782

> ADAMS CAMPUS 401 North Main Adams, WI 53910



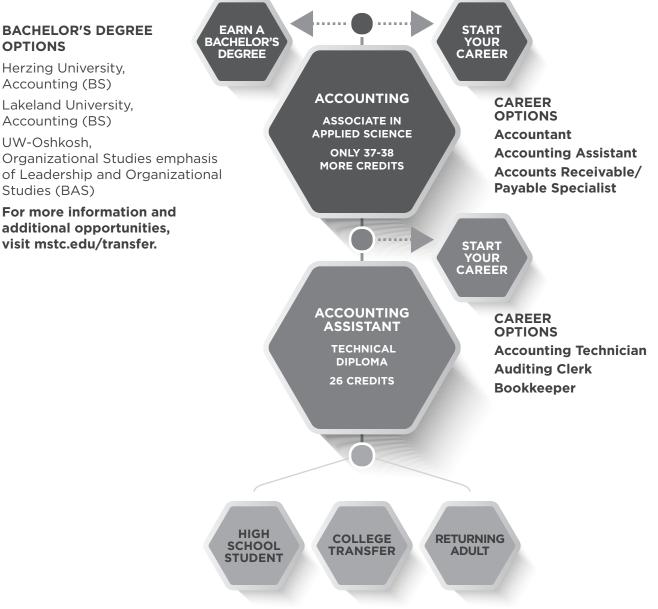
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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



PROGRAM OUTCOMES

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

- Process financial transactions throughout the accounting cycle.
- Analyze financial and business information to support planning and decision making.
- Perform payroll preparation, reporting, and analysis tasks.

TECHNICAL SKILLS ATTAINMENT

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. Students will complete the TSA assessments in Accounting II and Payroll Accounting.

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NOTES:

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

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The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

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10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

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Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term		13 credits
10101111	Accounting I	4
10101123	Income Tax Accounting	3
10103106	Microsoft Office-Introduction	3
10801136	English Composition 1	3
Term		13 credits
10101113	Accounting II	4
10101120	Payroll Accounting	3
10101129	QuickBooks Applications	3
10804107	College Mathematics	3
		Total credits 26

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10101111 10103106	Accounting I Microsoft Office-Introductio	7 credits 4 3
Term 10101113 10801136	Accounting II English Composition 1	7 credits 4 3
Term 10101123 10804107	Income Tax Accounting College Mathematics	6 credits 3 3
Term 10101120 10101129	Payroll Accounting QuickBooks Applications	6 credits 3 3
		Total credits 26

Accounting I

10101111.......4 credits 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. Also 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.

Accounting II

10101113.....**4 credits** 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; Corequisite: Microsoft Office-Introduction 10103106 or Excel-Beginning 10103123*

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Income Tax Accounting

10101123**3 credits** Applies current tax laws in preparing individual tax returns and supporting forms and schedules.

Microsoft Office-Introduction

10103106.....**3 credits** Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, PowerPoint, and Outlook) while reinforcing the students' knowledge of computer concepts, Windows Explorer, and web usage. Students should possess basic keyboarding, mouse and Windows 10 skills. Students may develop these skills in the LiNK while concurrently enrolled in this course.

Payroll Accounting

10101120......3 credits

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*

QuickBooks Applications

10101129.....**3 credits** Uses the computer as a tool to reinforce and build on accounting concepts. Students prepare financial statements and managerial reports, produce business documents, and account for service and merchandising business entities. *Prerequisites: Accounting I 10101111; Microsoft Office-Introduction 10103106 or Excel-Beginning 10103123*



administrative professional

Associate in Applied Science (AAS) Program Code: 10-106-6 Total Credits: 61-62

Graduates of Mid-State's Administrative Professional program are known for being adaptable and well prepared for today's workforce. Students learn to create and edit correspondence, work with customers, develop research reports, handle private or confidential records, and more. The program emphasizes fundamental knowledge of software applications, customer service skills, and the expert operation of a variety of office technology and equipment. You'll experience hands-on learning through the organization of high-profile events.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

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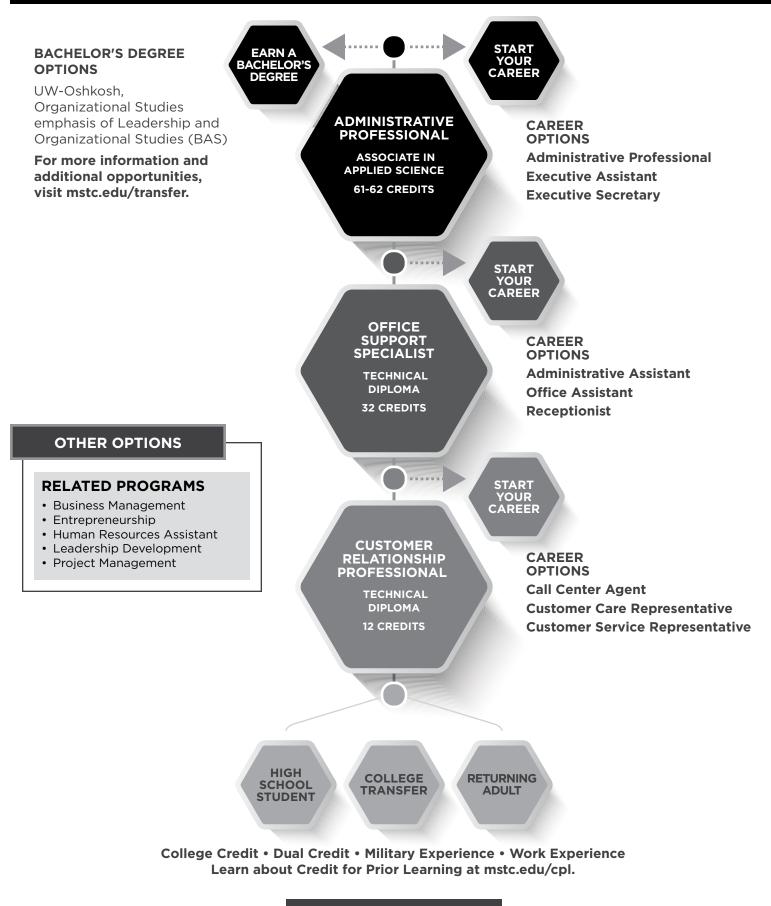
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career pathway



BEGIN AT ANY POINT IN THE PATHWAY

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.

TECHNICAL SKILLS ATTAINMENT

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.

MOBILE DEVICE ENHANCEMENT

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

STUDENT HANDBOOK

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The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term		15 credits
10103106	Microsoft Office-Introduction*	3
10106106 10106157	Quality Customer Service* Document Formatting	3 3 3 3
10801136	English Composition 1*	3
10809172	Introduction to Diversity Studies*	3
Term		17 credits
10103114	Word-Intermediate*	1
10103125	Excel Applications*	2
10106140	Business Information Management	3 3 2
10106150 10106158	Administrative Office Procedures Proofreading & Editing	3
10106138	Digital Communication Technology	2 3
10801196	Oral/Interpersonal Communication*	
10801198	Speech*	3
Term	15-	16 credits
10102101	Intro to Business*	3
10106162	Graphics & Print Media	3
10804107	College Mathematics*	3
10804118	Intermediate Algebra with Applicatio	ons* 4
10804189	Introductory Statistics*	3
10809122	Intro to American Government* -or-	_
10809196	Intro to Sociology* Elective*	3 3
		5
Term		14 credits
10102130 10801199	Career Development* -or- Employment Strategies*	3
10104107	Social Media Marketing	
10106135	Supervised Field Experience	3 2 3
10106180	Advanced Software Applications	3
10809188	Developmental Psychology* -or-	7
10809198	Intro to Psychology*	3
	Total cre	dits 61-62

* This course may also be offered in a different term including during winterim or summer terms, with 3-week, 8-week, or 16-week sessions available. A variety of modalities and class lengths may be available, including online, hybrid, TelePresence, or face to face.

Please Note:

- This program can be completed entirely online.
- Students complete a full-time course load over a 16-week term. This term may include a combination of classes taken in an 8-week session and classes taken over the full 16-week term.
- 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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10103106 10106157 10809172	Microsoft Office-Introduction* Document Formatting Introduction to Diversity Studies*	9 credits 3 3 3 3
Term 10106106 10106158 10801136	Quality Customer Service* Proofreading & Editing English Composition 1*	8 credits 3 2 3
Term 10103114 10103125 10801196 10801198	Word-Intermediate* Excel Applications* Oral/Interpersonal Communication* Speech*	6 credits 1 2 -or- 3
Term 10106140 10106150 10106172	Business Information Management Administrative Office Procedures Digital Communication Technology	9 credits 3 3 3 3
Term 10102101 10106162 10809122 10809196	Intro to Business* Graphics & Print Media Intro to American Government* -or- Intro to Sociology*	9 credits 3 3 3
Term 10102130 10801199 10104107 10809188 10809198	Career Development* -or- Employment Strategies* Social Media Marketing Developmental Psychology* -or- Intro to Psychology*	9 credits 3 3 3
Term 10804107	College Mathematics*	i-7 credits 3
10804118	-or- Intermediate Algebra with Applicati	ons* 4
10804189	-or- Introductory Statistics* Elective*	3 3
Term 10106135 10106180	Supervised Field Experience Advanced Software Applications	5 credits 2 3
	Total cre	dits 61-62

course descriptions

Administrative Office Procedures

10106150.....**3 credits** 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: English Composition 1 10801136 and Microsoft Office-Introduction 10103106

Advanced Software Applications

10106180.....**3 credits** 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 Applications 10103125, and Document Formatting 10106157*

Business Information Management

10106140.....**3 credits** 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*

Career Development

10102130.....**3 credits** Prepares 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, and 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 10834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meetthese requirements.

Developmental Psychology

10809188.....**3 credits** Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Digital Communication Technology

101061723 credits Introduces the student to digital and communication technology used in the office today, including digital cameras, digital video cameras, video conferencing, web conferencing, and multimedia presentations. The content focuses on understanding communication technologies and how they impact employees.

Corequisite: Microsoft Office-Introduction 10103106

Document Formatting

10106157.....**3 credits** Students are able to format styles of business letters, business and academic reports, memos, tables, business meeting documents, itineraries, legal documents, and business forms. 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*

Employment Strategies

10801199.....**3 credits** 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

English Composition 1

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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10831103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Excel Applications

10103125.....**2 credits** Learners will expand on basic Excel skills including managing multiple workbooks and worksheets using 3D references, links, and hyperlinks. They will also learn to summarize and analyze data using subtotals, PivotTables, PivotCharts, Goal Seek, Solver and Scenario Manager tools. This course teaches students to gather data and turn it into meaningful information used for business decision-making. *Prerequisites: Microsoft Office Introduction 10103106 or Excel Beginning 10103123*

Graphics & Print Media

10106162.....**3 credits** Develops skill to effectively create graphics and design publications. Students produce print media, design, and layout print jobs using the most appropriate software package for the job.

Corequisite: Microsoft Office Introduction 10103106

Intermediate Algebra with Applications

Intro to American Government

10809122.....3 credits

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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Business

10102101.....**3 credits** 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.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Intro to Sociology

10809196.....**3 credits** Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, 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

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Diversity Studies

10809172.....3 credits 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introductory Statistics

10804189.....**3 credits** 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: High School GPA of 3.0 or Accuplacer QAS 241 or ACT of 19 or Pre-Algebra 10834109 with a grade of "C" or better or College Math 10804107 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Microsoft Office-Introduction

10103106.....**3 credits** Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, PowerPoint, and Outlook) while reinforcing the students' knowledge of computer concepts, Windows Explorer, and web usage. Students should possess basic keyboarding, mouse and Windows 10 skills. Students may develop these skills in the LiNK while concurrently enrolled in this course.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Proofreading & Editing

101061582 credits Sharpens proofreading and editing skills. Competencies include 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*

Quality Customer Service

10106106.....**3 credits** Addresses sensitivity in communicating with customers and co-workers. Includes international communications, teamwork, working relationships, and telephone skills.

Social Media Marketing

10104107.....**3 credits** Addresses how social media has transformed marketing communications from traditional mass media to individualized marketing. Using a variety of social media tools and platforms, this class explores the different methodologies for social media marketing. Topics include creating social media, integrating social media as part of a marketing campaign, the concept of viral marketing, measuring social media success through analytics, and how organizations and individuals have successfully applied this form of marketing.

Speech

108011983 credits

Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Pre-requisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Supervised Field Experience

10106135**2 credits** 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 and/or Administrative Professional 10-106 courses or consent of instructor.*

Word-Intermediate

10103114.....**1 credit** Students learn to create more complex documents using Microsoft Word as well as customize the Word environment. Students also learn to use mail merge, macros, collaborate with others, and combine information into one file. *Prerequisite: Microsoft Office-Introduction 10103106 or Word-Beginning 10103113*



agribusiness and science technology

Associate in Applied Science (AAS) Program Code: 10-006-2 Total Credits: 60-61

Mid-State's Agribusiness and Science Technology program prepares students to be owners or employees of a farm business in all sectors of the agriculture industry or work in businesses that support the agriculture industry. The program includes dairy and livestock management and traditional crop production. You'll learn to develop a nutrient management plan, calculate cost of production, and develop a long-term facility and equipment plan as well as a farm business plan. Hands-on experiences include taking soil samples; identifying diseases, insects, and weeds that impact profitability; and working with livestock nutrition and management. Graduates obtain a private pesticide applicators certificate.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where:	
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481
 Other:

Other:			
-			



ADAMS CAMPUS 401 North Main Adams, WI 53910



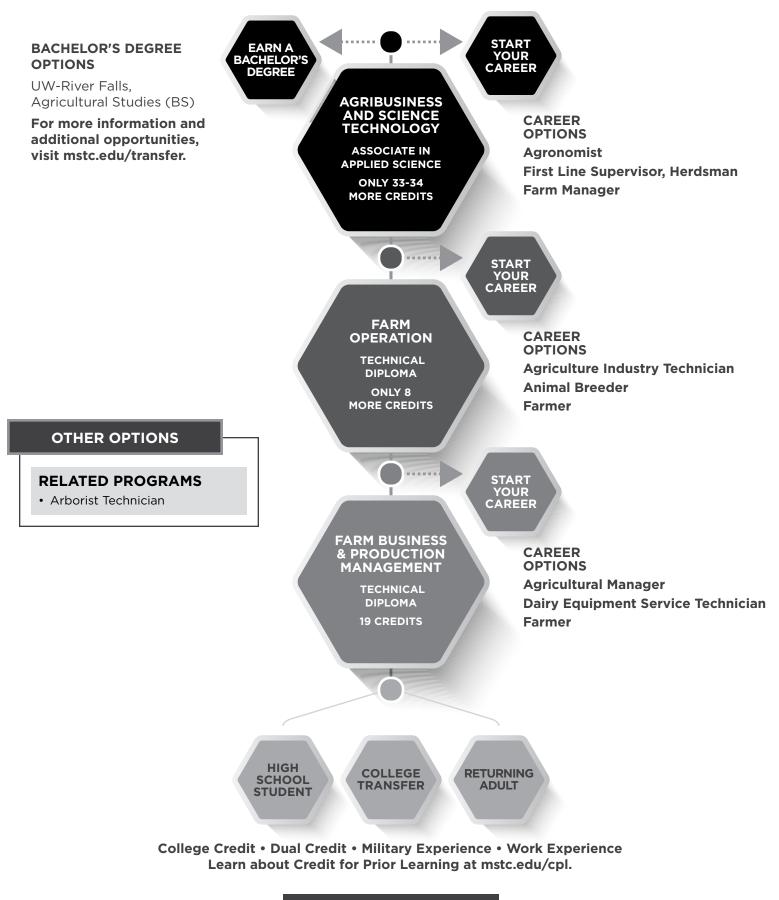
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway





PROGRAM OUTCOMES

Employers will expect you, as an Agribusiness and Science Technology graduate, to be able to:

- Create a crop management plan.
- Develop an agribusiness management plan.
- Apply economic and marketing strategies to agribusiness industry.
- Apply relevant technologies.
- Create a livestock management plan.
- Investigate opportunities in agribusiness.
- Interact as a professional in agribusiness.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109.....**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term	14-15 cred	its
10080105	Intro to Soil Science	3
10080140	Farm Financial Analysis	3 3 2 3
10091102	Intro to Animal Science	3
10093101	Integrated Pest Management	2
10804107	College Mathematics	3
10804118	-or- Intermediate Algebra with Applications	4
_	-	
Term	15 cred	
10070101	Basic Agricultural Electrical Systems	2
10093102 10091103	Intro to Precision Agriculture Animal Nutrition	3
10801136	English Composition 1	4 7
10806184	Plant Biology	4 3 3
10000101		Ũ
Term	14 cred	its
10006104	Intro to Agriculture Engineering Technology	3
10070102	Precision Equipment Systems	2
10090101	Agriculture Business Management	2 3 3
10093104	Principles of Crop Management	3
10801196	Oral/Interpersonal Communication -or-	_
10801198	Speech	3
Term	17 cred	its
10003101	Agricultural Diesel Engine Systems	3
10006101	Agricultural Computations	3
10006102	Agribusiness Equipment & Facilities	2
10006103	Introduction to Food Science	33233
10809166 10809188	Intro to Ethics: Theory & Application	5
10809188	Developmental Psychology -or- Intro to Psychology	3
10009190	intro to r sychology	5
	Total credits 60-	61

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term7 credits10091103Animal Nutrition410093102Intro to Precision Agriculture3Term6 credits10093104Agriculture Business Management310093104Principles of Crop Management310093104Principles of Crop Management310006101Agricultural Computations310006102Agribusiness Equipment & Facilities210003101Agricultural Diesel Engine Systems310080140Farm Financial Analysis310080140Farm Financial Analysis310080140Farm Financial Analysis310080140Basic Agricultural Electrical Systems210801136Basic Agricultural Electrical Systems210801196Oral/Interpersonal Communication -or-10801198Speech310006104Intro to Agriculture Engineering Technology310006104Intro to Agriculture Engineering Technology310804118Intermediate Algebra with Applications4Term9 credits310804118Intermediate Algebra with Applications410809166Intro to Ethics: Theory & Application310809188Developmental Psychology -or-310809198Intro to Psychology3	Term 10080105 10091102	Intro to Soil Science Intro to Animal Science	6 credits 3 3
10090101 10093104Agriculture Business Management Principles of Crop Management3Term8 credits10006101 1006102 Agricultural Computations Agricultural Diesel Engine Systems310006102 10003101Agricultural Diesel Engine Systems3Term8 credits 10080140 English Composition 1310080140 100801136Farm Financial Analysis English Composition 13Term8 credits 100801136310801136English Composition 13Term8 credits 10070101 Basic Agricultural Electrical Systems 0ral/Interpersonal Communication -or- 10801198 	10091103		4
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10080140Farm Financial Analysis310093101Integrated Pest Management210801136English Composition 13Term8 credits10070101Basic Agricultural Electrical Systems210801196Oral/Interpersonal Communication -or-310806184Plant Biology3Term8-9 credits10006104Intro to Agriculture Engineering Technology310804107College Mathematics3-or-10804118Intermediate Algebra with Applications4Term9 credits10006103Introduction to Food Science310809166Intro to Ethics: Theory & Application310809188Developmental Psychology -or-310809198Intro to Psychology3	10006101 10006102	Agribusiness Equipment & Facilities	3
10070101Basic Agricultural Electrical Systems210801196Oral/Interpersonal Communication -or-310801198Speech310806184Plant Biology3Term8-9 credits10006104Intro to Agriculture Engineering Technology310070102Precision Equipment Systems210804107College Mathematics3-oror-310804118Intermediate Algebra with Applications4Term9 credits10006103Introduction to Food Science310809166Intro to Ethics: Theory & Application310809188Developmental Psychology -or-310809198Intro to Psychology3	10080140 10093101	Integrated Pest Management	3
10006104Intro to Agriculture Engineering Technology310070102Precision Equipment Systems210804107College Mathematics3-oror-10804118Intermediate Algebra with Applications4Term9 credits10006103Introduction to Food Science310809166Intro to Ethics: Theory & Application310809188Developmental Psychology -or-310809198Intro to Psychology3	10070101 10801196 10801198	Oral/Interpersonal Communication - Speech	2 or- 3
Term9 credits10006103Introduction to Food Science310809166Intro to Ethics: Theory & Application310809188Developmental Psychology -or-310809198Intro to Psychology3	10006104 10070102 10804107	Intro to Agriculture Engineering Techr Precision Equipment Systems College Mathematics -or-	nology 3 2 3
10006103Introduction to Food Science310809166Intro to Ethics: Theory & Application310809188Developmental Psychology -or-310809198Intro to Psychology3	10804118	intermediate Algebra with Application	505 4
10809188Developmental Psychology -or-10809198Intro to Psychology3		Introduction to Food Science	
	10809188	Developmental Psychology -or-	· · ·
			-

Agribusiness Equipment & Facilities

10006102.....2 credits Examines arrangement and design of efficient farm buildings and equipment as well as construction requirements. Farmstead planning includes mapping of present facilities as well as evaluating usefulness and planning long and shortrange goals for farmstead changes to improve economics, safety, efficiency and aesthetics. Environmental factors and animal wellness needs are identified, including space. ventilation, nutrition, and care. Also examines the appropriate use and care of feed, fertilizer, planting and harvesting equipment, and dairy and livestock equipment and facilities. Possible equipment/facility changes are discussed and business expansion is analyzed.

Agricultural Computations

10006101......3 credits Deals with the application of quantitative tools to support agribusiness management decisions. These management decisions are executed using spreadsheet and data analysis (e.g., Microsoft Excel) while using elementary mathematical tools in an agricultural economics context. This course is designed to prepare students for upper-level agribusiness courses as well as real-world situations in agriculture.

Agricultural Diesel Engine Systems

10003101......3 credits Students learn the different uses of diesel engines in an agricultural setting. This course also provides an introduction to fuel systems, exhaust systems, and electrical systems. Use of technical service resources and precision measuring is stressed.

Agriculture Business Management

10090101......3 credits Examines the farm business as a complex set of enterprises that all need to be managed effectively to be successful and sustainable. Students learn to develop a business plan, set short- and long-term goals, identify and implement alternatives for reaching goals. Includes strategies and tools to monitor success. Students also learn to organize and maintain farm business records as well as how to interpret and analyze the records to make sound farm management decisions.

Animal Nutrition

10091103 4 credits Students demonstrate how to formulate and balance rations for several species of livestock. Includes knowledge of the nutritional needs of various species and ability to identify different feedstuffs. Students become familiar with the laws and regulations on livestock feeding along with reading, interpreting, and making recommendations from feed test reports/tags. They are also able to successfully understand the digestive systems of mono-gastric and ruminant animals. Prerequisite: Intro to Animal Science 10091102 or consent of an instructor

Basic Agricultural Electrical Systems

10070101.....2 credits Students learn the fundamentals of electrical systems related to agricultural equipment and facilities. This course also builds an understanding of the AC electrical circuits used in today's agricultural businesses. Students use digital multi-meters to diagnose common electrical problems found in agricultural electrical circuits, equipment, and motors. Topics discussed include safety precautions, Ohm's law, generators, batteries, electric motors, water heaters, overcurrent protection, conductor sizing, and national electrical code requirements.

College Mathematics

108041073 credits 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 and 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 US 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. Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Developmental Psychology

10809188.....3 credits Studies human development throughout the lifespan and 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. Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Farm Financial Analysis

10080140.....**3 credits** This course provides the student opportunities to develop

necessary business skills for operating a successful farm business. These skills involve analyzing, evaluating, creating and decision-making. These skills will be used with balance sheets, Income & Expense projections, cash flow needs, budget creation, benchmarking, cost of production, inventories, credit needs and history along with loan decisions.

Integrated Pest Management

10093101.....**2 credits** An effective and environmentally sensitive approach to pest management. Learners explore various approaches in integrated pest management (IPM) and gather information on the life cycles of pests and their interactions with the environment. This information in combination with available pest control methods are used to identify the most economical pest management options, with the least possible hazard to people, property, and environment.

Intermediate Algebra with Applications

Intro to Agriculture Engineering Technology

10006104.....**3 credits** Studies engineering concepts and principles as they apply to farm power and machinery, electrical energy and processing, structures and environment, irrigation and drainage, and food engineering. Students are exposed to techniques in design, planning, construction, and performance evaluation.

Intro to Animal Science

10091102.....**3 credits** Introduces the basics of livestock management. Examines management of dairy, beef, sheep, and other common livestock with concentration on nutrition, feedstuff's classification, reproduction, genetics, animal behavior, animal health, and sustainable agriculture practices. Includes basic husbandry and care procedures for animals. A livestock management plan will be created and analyzed.

Intro to Ethics: Theory & Application

10809166**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Precision Agriculture

10093102.....**3 credits** Explores agricultural applications of GPS, yield monitoring systems, and mapping. Students learn to interpret maps generated by precision agriculture equipment. Learners experience setup, calibration and operation of equipment/ software designed to support the production crop industry.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Intro to Soil Science

10080105.....**3 credits** Designed to provide students with fundamental knowledge of soil and soil composition. Includes study of soil types, formation factors, physical properties, biological properties, and basic soil chemistry. Units covering tillage, conservation, pH, soil management, plant nutrients, and fertilizer sources are also included. Students gain the skills required to interpret soil test reports and soil survey maps and recognize qualities of various soil types. Students perform soil sampling, residue measurements, compaction assessments, and soil loss determinations per crop rotation guidelines. A nutrient management plan is created and analyzed.

Introduction to Food Science

10006103.....**3 credits** Offers students unique opportunities to learn where their food supply comes from, how the food is produced, and how consumption is met on a global basis. Applying science principles to food production will enhance the student's ability to understand the phenomena of food production.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Plant Biology

10806184.....**3 credits** 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.

Precision Equipment Systems

100701022 credits Provides experience with different precision farming GPS systems used on agriculture equipment. Students learn proper setup, calibration, and installation of the systems. Students also create and interpret maps and learn adjustments and settings as well as GPS display and the different functions related.

Principles of Crop Management

10093104.....**3 credits** The basic principles and concepts of sound agronomic practices are discussed for corn, soybeans, small grains, and forage crops grown in Wisconsin. All sound agronomy practices are emphasized for each crop area as it relates to cultural and other specific inputs of crop production, environmental factors, and sustainable systems.

Speech

108011983 credits

Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*



arborist technician

Associate in Applied Science (AAS) Program Code: 10-001-5 Total Credits: 64-65

Mid-State's Arborist Technician graduates enter the workforce with real-world knowledge and skills. Our students learn the fundamentals of pruning, plant health care, tree planting and maintenance, plant identification, tree risk assessment, and landscape installation and management. Our unique aerial component gives our graduates experience working safely in the trees. You'll learn rope and saddle climbing, work with aerial lifts, and operate brush clippers and other industry equipment.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

Follow-Up Appointment:

Where:	
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

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Other:_____
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ADAMS CAMPUS 401 North Main Adams, WI 53910



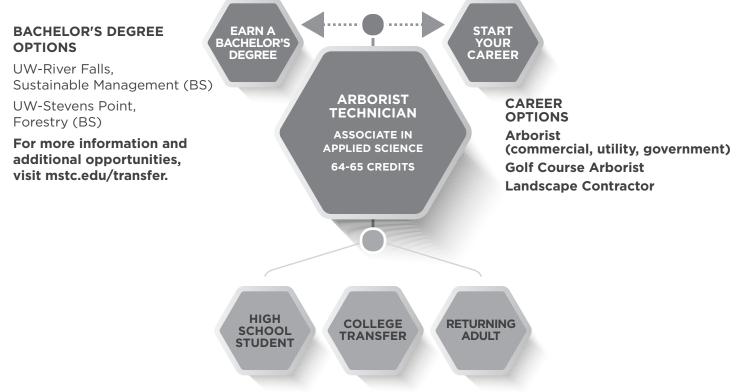
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Agribusiness and Science Technology
- Farm Business & Production Management
- Farm Operation

APPRENTICESHIP OPPORTUNITIES

Arborist Apprenticeship

PROGRAM OUTCOMES

Employers will expect you, as an Arborist 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.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

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.

Mid-State 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.

NOTES:



STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109.....**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term	17-18 cree	dits
10001118	Landscape Plant Identification	2
10001124 10001133	Arborist Skills Introduction Chainsaw Safety and Operation	2 2
10001133	Urban Tree Maintenance	2
10801136	English Composition 1	3 3
10804107	College Mathematics	3
10804118	-or- Intermediate Algebra with Applications	4
10804118	Plant Biology	4
Term	15 cre	
10001102 10001110	Plant Health Care Applicator Tree Biology	2 2
10001110	Intro to Horticulture	
10001125	Arborist Skills 1	2 2
10001148	People, Resources, and Sustainability	3
10806134	General Chemistry	4
Term	16 cre	dits
10001104	Applied Landscape Architecture	2
10001105	Dendrology and Silvics	3
10001126	Arborist Skills 2	2
10001199	Intro to Fisheries, Forestry, & Wildlife Resources	3
10801196	Oral/Interpersonal Communication -or-	Ű
10801198	Speech	3
10809166	Intro to Ethics: Theory & Application	3
Term	16 cre	dits
10001103	Applied Urban Forestry	2
10001113	Ornamental Plant Health Care	3
10001127 10001149	Arborist Skills 3 Ecological Basis for Natural	2
10001149	Resource Management	3
10001198	Intro to Soil & Water Resources	3
10809188	Developmental Psychology -or-	
10809198	Intro to Psychology	3
	Total credits 64	-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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10001124 10001133 10001173 10806184	Arborist Skills Introduction Chainsaw Safety and Operation Urban Tree Maintenance Plant Biology	9 credits 2 2 2 3
Term 10001110 10001111 10804107	Tree Biology Intro to Horticulture College Mathematics -or-	7-8 credits 2 2 3
10804118	Intermediate Algebra with Applicati	ons 4
Term 10001118 10001199 10801136	Landscape Plant Identification Intro to Fisheries, Forestry, & Wildlife Resources English Composition 1	8 credit 2 3 3
Term 10001102 10001125 10806134	Plant Health Care Applicator Arborist Skills 1 General Chemistry	8 credits 2 2 4
Term 10001126 10801196 10801198 10809188 10809198	Arborist Skills 2 Oral/Interpersonal Communication Speech Developmental Psychology -or- Intro to Psychology	8 credit 2 -or- 3 3
Term 10001148 10001149 10001198	People, Resources, and Sustainabilit Ecological Basis for Natural Resource Management Intro to Soil & Water Resources	9 credits y 3 3 3
Term 10001104 10001105 10809166	Applied Landscape Architecture Dendrology and Silvics Intro to Ethics: Theory & Applicatior	8 credits 2 3 1 3
Term 10001103 10001113 10001127 10001139	Applied Urban Forestry Ornamental Plant Health Care Arborist Skills 3 Landscape & Turf Management II	7 credits 2 3 2 2
	Total cree	dits 64-65

Applied Landscape Architecture

10001104.....2 credits

Introduces the student to the landscape design process, a structured approach for shaping outdoor settings for human use and enjoyment. Develops skills in graphic techniques to communicate your landscaping ideas in plan drawings and sketches. Students gain experience in presenting ideas before large and small groups.

Prerequisite: Landscape Plant Identification 10001118

Applied Urban Forestry

10001103.....2 credits Students 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 urban forestry careers as applied to commercial, municipal, and utility employers. *Prerequisites: Urban Tree Maintenance 10001173 and Tree Biology 10001110*

Arborist Skills 1

100011252 credits

Emphasizes practice of skills associated with being safe & productive members of crews engaged in basic tree work/ arboricultural operations. Topics include introductory elements of pruning & removal techniques, equipment operations, & work site set-up.

Prerequisite: Arborist Skills Introduction 10001124

Arborist Skills 2

10001126.....**2 credits** Builds upon the skills & topics of Arborist Skills 1. Students will participate as safe & productive members of crews engaged in an intermediate level of arboricultural operations skills development.

Prerequisite: Arborist Skills 1 10001125

Arborist Skills 3

100011272 credits Builds upon the skills & topics of Arborist Skills 2. Students will participate as safe & productive members of crews engaged in an advanced level of arboricultural operations skills development.

Prerequisite: Arborist Skills 2 10001126

Arborist Skills Introduction

10001124.....**2 credits** Introduction to the basic techniques, safety requirements, & equipment employed by arborists engaged in tree care operations. Topics include aerial tree work methods, industry safety standards, equipment operations, rope usage, risk recognition, & introductory tree biology.

Chainsaw Safety and Operation

10001133**2 credits** This course will familiarize students with common chainsaw practices employed within the arboriculture industry, including safe operation, routine maintenance, common cutting techniques, and use of personal protective equipment. Students will operate and maintain chainsaws. Additionally, field exercises will simulate tree removal operations.

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Dendrology and Silvics

10001105.....**3 credits** Provides the student with an understanding of how trees interact with their environment and with one another, at different spatial and temporal scales. 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.

Prerequisite: Landscape Plant Identification 10001118

Developmental Psychology

10809188.....**3 credits** Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Ecological Basis for Natural Resource Management 10001149......3 credits

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

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

General Chemistry

10806134 4 credits Covers the fundamentals of chemistry. Topics include the metric system; problem solving; periodic relationships; chemical reactions, chemical equilibrium; properties of water; acids, bases, and salts; and gas laws. High School GPA of 3.0 or Accuplacer QAS of 246 or ACT of 19, and College Mathematics 10804107 with a "C" or better, or Intermediate Algebra with Applications 10804118 with a "C" or better. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intermediate Algebra with Applications

Intro to Ethics: Theory & Application

10809166**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Fisheries, Forestry, & Wildlife Resources 10001199......3 credits

Provides an integrated introduction to principles and practices of fisheries, forestry, and wildlife management, including production of goods and services while maintaining ecosystem integrity and functions. Emphasizes contemporary issues.

Intro to Horticulture

10001111.....2 credits 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, plant growth, and plant development.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of*

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Soil & Water Resources

10001198.....**3 credits** Introduces the student to integrated concepts of soil and water resources at the landscape level. Examines physical, chemical, and biological interactions relating to watershed processes and response to land use and management. *Prerequisite: Plant Biology 10806184; Corequisite: General Chemistry 10806134*

Landscape Plant Identification

10001118.....**2 credits** 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.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Ornamental Plant Health Care

10001113.....**3 credits** 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

People, Resources, and Sustainability

10001148......3 credits 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.

Plant Biology

108061843 credits This lecture/laboratory course provides students with an indepth 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.

Plant Health Care Applicator

10001102.....2 credits Focuses on 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.

Speech

108011983 credits Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253. Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Tree Biology

100011102 credits This course provides an overview of the major structures and functions of woody plants. The overall objective is to provide a basic understanding of these complex organisms. equipping you with a solid foundation to diagnose myriad health & structural abnormalities you'll encounter. Major course themes include plant functions, physiology, adaptations, root systems, planting, & basic risk assessment.

Urban Tree Maintenance

100011732 credits Primarily focuses on the art and science of tree pruning. 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 course.



automotive maintenance technician

Technical Diploma Program Code: 31-404-3 Total Credits: 27

Mid-State's Automotive Maintenance Technician program prepares students for entry-level automotive repair work with special emphasis on mechanical relationships, basic engine performance, and suspension systems. You'll learn from industry experts to test and maintain basic automotive systems. You'll also apply the techniques you learn in the classroom to an automotive shop laboratory setting, with access to state-of-the-art hand and power tools and complex electrical diagnostic equipment. Graduates will have the confidence to start their careers in automotive repair facilities and retail service centers.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

Follow-Up Appointment:

Where:	
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

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Other:_____
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mstc.edu 888.575.6782

> ADAMS CAMPUS 401 North Main Adams, WI 53910



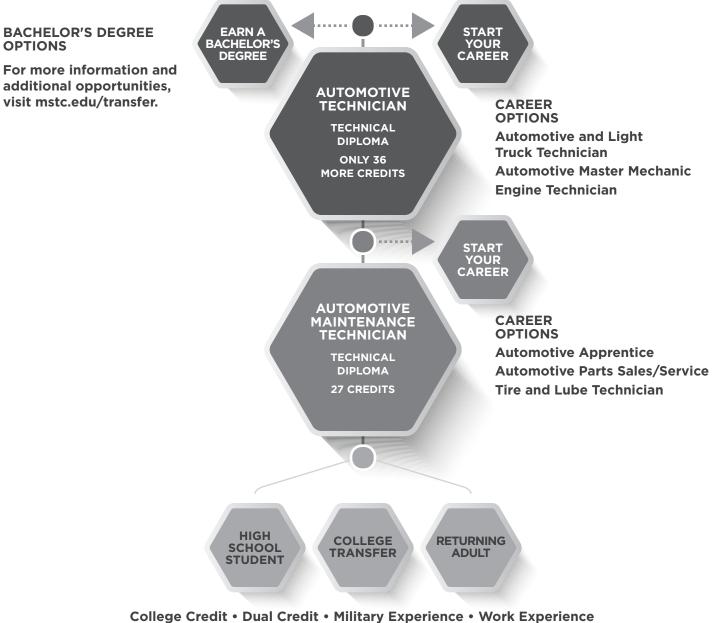
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Diesel & Heavy Equipment Technician
- Diesel & Heavy Equipment Technician Assistant

PROGRAM OUTCOMES

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

- Demonstrate professionalism appropriate to the auto service industry.
- Perform maintenance and light repair of automotive steering and suspension systems.
- Perform maintenance and light repair of automotive brake systems.
- Perform maintenance and light repair of automotive electrical and electronic systems.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

PROTECTIVE CLOTHING

Students are required to purchase three "Mid-State Automotive Technician 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. These are available for purchase through the campus Bookstore for approximately \$270.

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term	14 cre	dits
32404307	Suspension & Steering Systems	5
	Braking Systems-Automotive	5
32404330	Applied Fluid Power	2
32404340	Intro to Electricity for the	
	Automotive Industry	1
32404375	Service Practices in Automotive Industry	1
Term	13 cre	dits
10442117	Welding Fundamentals 1	1
10442118	Welding Fundamentals 2	1
10457119	Fabrication Fundamentals 1	1
32404311	Electrical Systems-Auto	5
32404324	Engine Repair	5
	Total credit	s 27

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. For details, go to **mstc.edu/classfinder**.

NOTES:

SAMPLE PART-TIME CURRICULUM OPTION

	Braking Systems-Automotive Intro to Electricity for the Automotive Industry	6 credits 5 1
	Suspension & Steering Systems Applied Fluid Power	7 credits 5 2
	Service Practices in Automotive Ind Electrical Systems-Auto	6 credits ustry 1 5
Term 10442117 10442118 10457119 32404324	Welding Fundamentals 1 Welding Fundamentals 2 Fabrication Fundamentals 1 Engine Repair	8 credits 1 1 1 5
	Total	credits 27

Applied Fluid Power

32404330.....**2 credits** Learners employ basic principles and application of pumps, compressors, motors, valves, seals, packing, and conductors to demonstrate 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 program 324042 or Automotive Maintenance Technician program 314043

Braking Systems-Automotive

32404308.....**5 credits** Learners employ fundamentals of vehicle braking systems including drum, disc, hydraulic and air systems to perform on-vehicle repairs. Includes instruction on power and anti-skid systems with emphasis on troubleshooting and component replacement and reconditioning. *Prerequisite: Admission to Automotive Technician program 324042 or Automotive Maintenance Technician program 314043*

Electrical Systems-Auto

32404311......5 credits Learners employ principles of construction, function, and operation of starting motors, charging systems, and controls. Covers basic electronics, including capacitance, inductance, series and parallel circuits, magnetism and Ohm's Law, wiring schematics, soldering techniques, and use of diagnostic equipment. Vehicle control and accessory systems are studied.

Engine Repair

32404324**5 credits** Learners practice diagnosis, reconditioning and repair of cylinder heads, valve train components, and engine blocks and related components. Provides a general overview of engine types and operating characteristics. Covers engine support systems such as the lubrication systems, cooling system, ignition system, fuel and exhaust systems. *Prerequisite: Admission to Automotive Technician program 324042 or Automotive Maintenance Technician program 314043*

Fabrication Fundamentals 1

10457119.....1 credit An introduction to structural shapes and sheet metal fabrication. Presents fabrication techniques, metal selection, and layout, cutting, bending, drilling, threading, and joining using manual equipment and techniques. Information is presented to the student and followed up with lab activities to provide a hands-on experience. Emphasizes developing an understanding of the tools, techniques, safe work habits, and application of sheet metal fabrication skills.

Intro to Electricity for the Automotive Industry

32404340....**1 credit** Introduces learners to electrical measurement tools and techniques. Includes both hands-on experience and theory on topics including multimeter operation, Ohm's law, wiring diagram interpretation, and circuit testing. Content is focused on tools and procedures commonly used in automotive, and diesel/heavy equipment industries. Learners will have the opportunity to earn NC3 multimeter certification during this course.

Prerequisite: Admission to Automotive Technician program 324042 or Automotive Maintenance Technician program 314043

Service Practices in Automotive Industry

324043751 credit Introduces the learner to common tools, terminology, and service practices in the transportation field. Covers safety, environmental concerns, and basic customer relations. Service shop management practices and the use of automated work order, parts ordering, and time management concepts are included. *Prerequisite: Admission to Automotive Technician program 324042 or Automotive Maintenance Technician program 314043*

Suspension & Steering Systems

32404307.....**5 credits** Analyze construction and working principles of chassis components. Includes frames, suspension systems, steering gears and linkages, wheels and tires, and wheel alignment. Learners practice on-vehicle diagnosis and repair of suspension and steering systems.

Prerequisite: Admission to Automotive Technician program 324042 or Automotive Maintenance Technician program 314043

Welding Fundamentals 1

10442117**1 credit** An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of FCAW, GMAW, and OXY-Fuel cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.

Welding Fundamentals 2

10442118**1 credit** An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of GTAW, SMAW and Plasma cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.



automotive technician

Technical Diploma Program Code: 32-404-2 Total Credits: 63

Mid-State's Automotive Technician program gives students the experience and skills they need to diagnose and repair today's vehicles. The program emphasizes engine and transmission repair, the drive train and axles, suspension and steering systems, brakes, electrical systems, heating and air conditioning, and engine performance. You'll receive instruction from industry experts and have access to state-of-the-art equipment, including a variety of hand and power tools and complex electrical diagnostic equipment. Hands-on learning and opportunities to diagnose and repair cars for real customers will have you ready to enter the workforce with confidence.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:	_
When:_	
With:	

Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

Other:		



ADAMS CAMPUS 401 North Main Adams, WI 53910



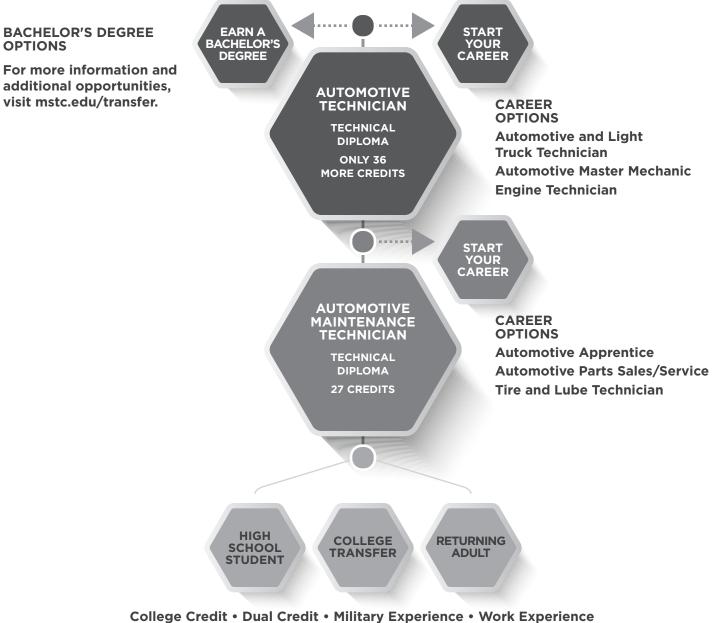
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Diesel & Heavy Equipment Technician
- Diesel & Heavy Equipment Technician Assistant

PROGRAM OUTCOMES

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

- Demonstrate professionalism appropriate for the auto service industry.
- Perform diagnosis, service, and repair of automotive internal combustion engines.
- Perform diagnosis, service, and repair of automotive automatic transmission/transaxle systems.
- Perform diagnosis, service, and repair of automotive manual drive train and axle systems.
- Perform diagnosis, service, and repair of automotive steering and suspension systems.
- Perform diagnosis, service, and repair of automotive brake systems.
- Perform diagnosis, service, and repair of automotive electrical and electronic systems.
- Perform diagnosis, service, and repair of automotive heating and air conditioning systems.
- Perform diagnosis, service, and repair of automotive engine performance systems.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

PROTECTIVE CLOTHING

Students are required to purchase three "Mid-State Automotive Technician 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. These are available for purchase through the campus Bookstore for approximately \$270.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109.....**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term		15 credits	
10804107	College Mathematics	3	
32404307	Suspension & Steering Systems	5 5	
	Braking Systems-Automotive		
32404375		ustry I	
32404340	Intro to Electricity for the Automotive Industry	1	
Term	, atomotive madshy	15 credits	
10442117	Welding Fundamentals 1	10 creates	
10442118	Welding Fundamentals 2	1	
10457119	Fabrication Fundamentals 1	1	
32404311	Electrical Systems-Auto	5	
32404324	Engine Repair	5 5 2	
32404330	Applied Fluid Power	2	
Term		18 credits	
10102130	Career Development -or-	lo creatts	
10102130	Employment Strategies	3	
10404101	Electronic Control System Program	mina 3	
32404323	Automatic Transmissions	5	
32404325	Manual Transmissions	ming 3 5 5 2	
32806351	Applied Science	2	
Таки		15 avadita	
Term 32404312	Advanced Electrical Systems Auto	15 credits	
32404312	Advanced Electrical Systems-Auto Hybrid Systems-Auto	5	
32404320	Heating/Air Conditioning		
	Fuel Control System-Auto	3 5	
32404377	Business Practices in the	5	
	Transportation Industry	1	
	Total	credits 63	
			_

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

32404308	Suspension & Steering Systems Braking Systems-Automotive Intro to Electricity for the Automotive Industry	11 credits 5 5 1
Term 10442117 10442118 10457119 32404311 32404324	Welding Fundamentals 1 Welding Fundamentals 2 Fabrication Fundamentals 1 Electrical Systems-Auto Engine Repair	13 credits 1 1 5 5
Term 10804107 32404375	College Mathematics Service Practices in Automotive Indu	4 credits 3 ustry 1
		10 credits 5 3 2
Term 10102130 10801199 32404323 32404325 32806351	Career Development -or- Employment Strategies Automatic Transmissions Manual Transmissions Applied Science	15 credits 3 5 5 2
Term 10404101 32404320 32404326 32404377	Electronic Control System Programm Hybrid Systems-Auto Fuel Control System-Auto Business Practices in the Transportation Industry	10 credits ning 3 1 5 1
	Total	credits 63

course descriptions

Advanced Electrical Systems-Auto

32404312.....**5 credits** Learners employ theory and operational fundamentals to diagnosis and repair of vehicle electronic/electrical systems, including computer self-diagnosis, scanners, analyzers, sensors, actuators, and computerized ignitions. Also covers diagnostic and repair procedures on major electricalelectronic emission control systems. *Corequisite: Electrical Systems-Auto 32404311*

Applied Fluid Power

32404330.....**2 credits** Learners employ basic principles and application of pumps, compressors, motors, valves, seals, packing, and conductors to demonstrate 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 program 324042 or Automotive Maintenance Technician program 314043

Applied Science

32806351.....**2 credits** This survey course in basic physics is designed for students in the Automotive Technician, Diesel & Heavy Equipment Technician, and Machine Tool Technician programs. Topics have been 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 with a grade of "C" or better.*

Automatic Transmissions

32404323**5 credits** Learners practice automatic transmission diagnosis and repair. Topics include gear systems, hydraulic and electronic control systems, transmission servicing, in vehicle repair, and out of vehicle transmission overhaul.

Prerequisites: Electrical Systems-Auto 32404311 and Applied Fluid Power 32404330

Braking Systems-Automotive

32404308.....**5 credits** Learners employ fundamentals of vehicle braking systems including drum, disc, hydraulic and air systems to perform on-vehicle repairs. Includes instruction on power and anti-skid systems with emphasis on troubleshooting and component replacement and reconditioning. *Prerequisite: Admission to Automotive Technician program 324042 or Automotive Maintenance Technician program 314043*

Business Practices in the Transportation Industry 324043771 credit

Provides learners with hands on experience completing repair orders, customer service and parts management. Students will learn from instructors, local shop owners and professionals in the industry. Topics covered will include shop management, insurance and worker's compensation considerations, warranties, and pricing systems. *Corequisite: Fuel Control System-Auto 32404326.*

Career Development

10102130.....**3 credits** Prepares 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, and 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Electrical Systems-Auto

32404311.....5 credits Learners employ principles of construction, function, and operation of starting motors, charging systems, and controls. Covers basic electronics, including capacitance, inductance, series and parallel circuits, magnetism and Ohm's Law, wiring schematics, soldering techniques, and use of diagnostic equipment. Vehicle control and accessory systems are studied.

Electronic Control System Programming

10404101.....**3 credits** Introduces learners to fundamental electronic control programming logic, terminology, and design. Learners practice basic programming and digital control techniques complete control tasks that are analogous to control tasks found in modern automobiles. *Prerequisite: College Mathematics 10804107*

Employment Strategies

10801199.....**3 credits** 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

Engine Repair

32404324.....**5 credits** Learners practice diagnosis, reconditioning and repair of cylinder heads, valve train components, and engine blocks and related components. Provides a general overview of engine types and operating characteristics. Covers engine support systems such as the lubrication systems, cooling system, ignition system, fuel and exhaust systems. *Prerequisite: Admission to Automotive Technician program 324042* or Automotive Maintenance Technician program 314043

Fabrication Fundamentals 1

10457119.....1 credit An introduction to structural shapes and sheet metal fabrication. Presents fabrication techniques, metal selection, and layout, cutting, bending, drilling, threading, and joining using manual equipment and techniques. Information is presented to the student and followed up with lab activities to provide a hands-on experience. Emphasizes developing an understanding of the tools, techniques, safe work habits, and application of sheet metal fabrication skills.

Fuel Control System-Auto

32404326**5 credits** Learners identify and diagnose vehicle ignition systems, fuel systems, air induction systems, emission control systems, and engine electrical systems. Focuses on fault diagnosis, component testing, and repairs for domestic as well as import vehicles. Includes a review of engine operation and related servicing.

Prerequisite: Admission to Automotive Technician program 324042 or Automotive Maintenance Technician program 314043

Heating/Air Conditioning

32404322**3 credits** 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. Includes servicing of engine cooling systems as well as diagnosis and servicing of vehicle heating systems.

Prerequisite: Admission to Automotive Technician program 324042 or Diesel & Heavy Equipment Technician program 324121

Hybrid Systems-Auto

32404320.....**1 credit** Learners receive a general overview of hybrid vehicle systems, including motor, inverter, and CVT operation. Also provides an overview of hybrid safety requirements and demonstration of proper high voltage lockout procedures. *Corequisites: Automatic Transmissions 32404323, Advanced Electrical Systems-Auto 32404312, and Fuel Control Systems-Auto 32404326*

Intro to Electricity for the Automotive Industry

32404340....**1 credit** Introduces learners to electrical measurement tools and techniques. Includes both hands-on experience and theory on topics including multimeter operation, Ohm's law, wiring diagram interpretation, and circuit testing. Content is focused on tools and procedures commonly used in automotive, and diesel/heavy equipment industries. Learners will have the opportunity to earn NC3 multimeter certification during this course.

Prerequisite: Admission to Automotive Technician program 324042 or Automotive Maintenance Technician program 314043

Manual Transmissions

32404325**5 credits** Learners practice manual drivetrain fault diagnosis and repair. Topics includes clutch, drive shaft, and universal joint diagnosis and servicing. Additional topics include rear axle servicing and four-wheel drive diagnosis and repair. *Corequisite: Automatic Transmissions 32404323*

Service Practices in Automotive Industry

32404375**1 credit** Introduces the learner to common tools, terminology, and service practices in the transportation field. Covers safety, environmental concerns, and basic customer relations. Service shop management practices and the use of automated work order, parts ordering, and time management concepts are included.

Prerequisite: Admission to Automotive Technician program 324042 or Automotive Maintenance Technician program 314043

Suspension & Steering Systems

32404307.....**5 credits** Analyze construction and working principles of chassis components. Includes frames, suspension systems, steering gears and linkages, wheels and tires, and wheel alignment. Learners practice on-vehicle diagnosis and repair of suspension and steering systems. *Prerequisite: Admission to Automotive Technician program 324042 or Automotive Maintenance Technician program 314043*

Welding Fundamentals 1

10442117**1 credit** An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of FCAW, GMAW, and OXY-Fuel cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.

Welding Fundamentals 2

10442118**1 credit** An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of GTAW, SMAW and Plasma cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.



barber technologist

Technical Diploma Program Code: 30-502-5 Total Credits: 25

The Barber Technologist program at Mid-State is a part-time program that gives students hands-on training in the techniques they need to thrive in barbering. Through a combination of online and face-to-face classes, as well as hours in Mid-State's on-campus salon, you'll learn both traditional and modern cutting and styling, safe use of common barber shop chemicals, and professional shaving techniques.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where: _	
When:	

Other: _____



ADAMS CAMPUS 401 North Main Adams, WI 53910



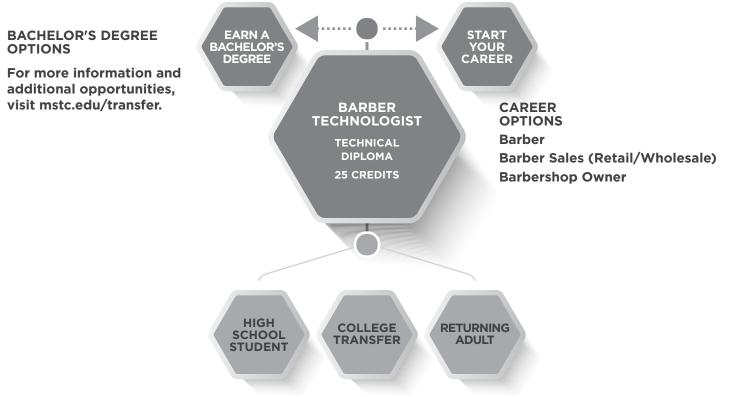
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

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.

TECHNICAL SKILLS ATTAINMENT

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. Students will take a mock board exam in the Barber Master Services course to fulfill the TSA requirement..

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 to 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.

TECHNICAL STANDARDS

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

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 prerequistes.

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.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE PART-TIME CURRICULUM OPTION

30502703 30502706	11 cred Haircutting for Barbers Introduction to the Barber Profession Hairstyling for Barbers	4 2 2
	Barber Services Skills Barber Basic Hair & Scalp Services	2 1
30502704 30502705 30502722 30502737 30502732	11 cred Facial Hair & Skin Care Services for Barbers Haircoloring for Barbers Chemical Texturing for Barbers Business Management for Barbers Barber Basic Shaving Services Barber Emerging Services Barber Advanced Hair and Scalp Services	its 2 2 1 1 2 1
	3 cred Barber Advanced Shaving Services Barber Master Services	its 1 2
	Total credits	25

Please Note:

- The Barber Technologist program is a part-time hybrid program.
- 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. For details, go to **mstc.edu/classfinder**.

NOTES:

Barber Advanced Hair and Scalp Services

305027331 credit In this course, students build on techniques learned in classroom and practiced in the salon, concentrating on advancing skills and proficiencies by providing client services performed by the barber. Emphasis is on hair and scalp analysis, shampooing, haircutting techniques, shaving, facial services, and hairstyling services. Students will apply knowledge and skills to provide all barber services on customers in the on-campus salon. *Corequisite: Barber Service Skills 30502730*

Barber Advanced Shaving Services

305027441 credit In this course, students build on techniques learned in classroom and practiced in the salon, concentrating on advancing skills and proficiencies by providing client services performed by the barber. Emphasis is on advanced shaving techniques while providing other services as required. Students will apply knowledge and skills to provide all barber services on customers in the on-campus salon. *Corequisite: Barber Service Skills 30502730*

Barber Basic Hair & Scalp Services

30502731.....**1 credit** In this course, students explore client services performed by the barber. Emphasis is on hair and scalp analysis, shampooing, haircutting techniques, shaving, and hairstyling services. Students will apply knowledge and skills to provide all barber services on customers in the on-campus salon. *Corequisite: Barber Service Skills 30502730*

Barber Basic Shaving Services

30502737.....1 credit In this course, students explore client services performed by the barber. Emphasis is on basic shaving services, but other services will also be practiced. Students will apply knowledge and skills to provide all barber services on customers in the on-campus salon. *Corequisite: Barber Service Skills 30502730*

Barber Emerging Services

30502732**2 credits** This course students practice building speed and accuracy in client services performed by the barber. Emphasis is on shaving, haircutting techniques, and hairstyling services. Students apply knowledge and skills to provide all barber services on customers in the on-campus salon. *Corequisite: Barber Service Skills 30502730*

Barber Master Services

30502734**2 credits** This course provides students with opportunities to master 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 Service Skills 30502730*

Barber Services Skills

30502730.....**2 credits** This course promotes beginning-level developmental skills and proficiencies by providing a wide range of client-related services. Students will be performing proper business practices, client consultations, apply knowledge and skills to provide all barber services on customers in the on-campus salon. Emphasis is on hair and scalp analysis, shampooing, haircutting techniques, shaving, and hairstyling services. *Corequisites: Haircutting for Barbers 30502701, Introduction to the Barber Profession 30502703, and Hairstyling for Barbers 30502706*

Business Management for Barbers

30502722**1 credit** This course includes business and management principles for barbers, barbering rules and regulations, and career strategies. *Prerequisite: Admission to Barber Technologist program 305025*

Chemical Texturing for Barbers

30502705**2 credits** This course provides an overview of various wrap techniques, hair relaxing applications, reformation curls, and chemical blow-out services. *Prerequisite: Admission to Barber Technologist program 305025*

Facial Hair & Skin Care Services for Barbers

30502702**2 credits** 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

Haircoloring for Barbers

30502704.....**2 credits** This course includes the theory and chemistry of color mixing as well as procedures including lightening, cap, foiling, and corrective color. *Prerequisite: Admission to Barber Technologist program 305025*

Haircutting for Barbers

Hairstyling for Barbers

30502706.....**2 credits** This course emphasizes wet and dry hairstyling and includes hair analysis, shampooing, conditioning, reconditioning, scalp and hair treatments, blow drying, finger waves, pin curls, roller setting, thermal styling, and hair replacement techniques.

Prerequisite: Admission to Barber Technologist program 305025

Introduction to the Barber Profession

30502703**2 credits** 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



business analyst

Associate in Applied Science (AAS) Program Code: 10-102-1 Total Credits: 63-64

The Business Analyst associate degree is a two-year program that prepares individuals to work closely with stakeholders to identify business needs and offer opportunities for improvements in systems or workflow. The skills gained in this program are in demand within the industries of healthcare, IT, manufacturing, insurance, and finance. In this program you will research, analyze, and design solutions using business requirements and best practices. Through group projects you will develop and leverage leadership- and team-building tools using a variety of different collaboration methods.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

Follow-Up Appointment:

Where: _	
When:	

With:

Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

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Other:_____
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ADAMS CAMPUS 401 North Main Adams, WI 53910



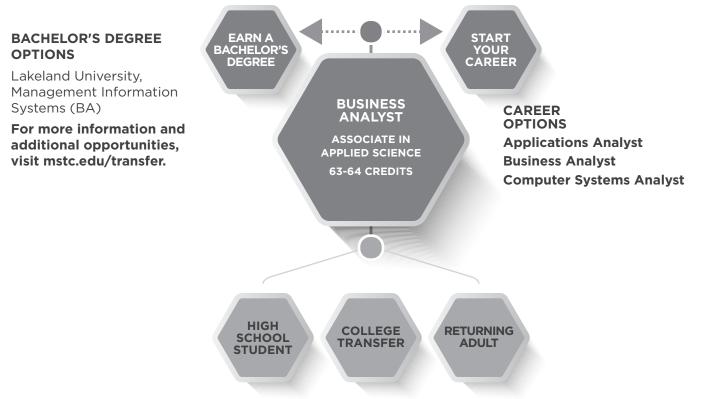
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- IT Computer Support Specialist
- IT Network Specialist
- IT Security Specialist
- IT Software Developer
- Microsoft System Administrator

PROGRAM OUTCOMES

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

- Perform elicitation, validation, and analysis of requirements to meet a business need.
- Build relationships with stakeholders.
- Demonstrate leadership throughout business analysis efforts.
- Demonstrate professional communication in a business environment.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10102210 10103106 10196189 10801136 10801196 10801198	Business Analyst Essentials Microsoft Office-Introduction Team Building & Problem Solving English Composition 1 Oral/Interpersonal Communication Speech	15 credits 3 3 3 -or- 3
Term 10102211 10102213 10102214 10156101 10804107	18 Business Analyst Fundamentals 1 Requirements Analysis Continuous Improvement Database Concepts and Design College Mathematics	-19 credits 3 3 3 3 3 3 3
10804118 10809172	Intermediate Algebra with Application to Diversity Studies	ions 4 3
Term 10102212 10102216 10156102 10196190 10809103	Business Analyst Fundamentals 2 Solutions Design SQL Development Leadership Development Think Critically & Creatively	15 credits 3 3 3 3 3 3 3
Term 10102215 10102220 10196188 10801197 10809188 10809198	Business Analyst Fundamentals 3 Business Analyst Capstone Project Management Technical Reporting Developmental Psychology -or- Intro to Psychology	15 credits 3 3 3 3 3 3 3
	Total cre	dits 63-64

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10102210 10196189 10801196 10801198	Business Analyst Essentials Team Building & Problem Solving Oral/Interpersonal Communication Speech	9 credits 3 -or- 3
Term 10102211 10102213 10156101	Business Analyst Fundamentals 1 Requirements Analysis Database Concepts and Design	9 credits 3 3 3
Term 10103106 10804107	Microsoft Office-Introduction College Mathematics -or-	6-7 credits 3 3
10804118 10804189	Intermediate Algebra with Applicat -or- Introductory Statistics	ions 4 3
Term 10102212 10102216 10156102	Business Analyst Fundamentals 2 Solutions Design SQL Development	9 credits 3 3 3
Term 10102214 10196188 10801197	Continuous Improvement Project Management Technical Reporting	9 credits 3 3 3
Term 10801136 10809172	English Composition 1 Introduction to Diversity Studies	6 credits 3 3
Term 10196190 10809103 10809188 10809198	Leadership Development Think Critically & Creatively Developmental Psychology -or- Intro to Psychology	9 credits 3 3 3
Term 10102215 10102220	Business Analyst Fundamentals 3 Business Analyst Capstone	6 credits 3 3
Total credits 63-64		

Business Analyst Capstone

101022203 credits

This course provides Business Analyst students the opportunity to integrate the knowledge they have obtained throughout their curriculum by demonstrating their proficiency during the entire life cycle of a project. Corequisite: Business Analyst Fundamentals 2 10102212

Business Analyst Essentials

101022103 credits

Students learn a wide range of strategies to enhance their professional success as a business analyst, including business etiquette, professional image, ethical behavior, professional communication, time management, work ethic, multi-tasking, stress management, work place relationships, accountability, team building, problem solving, and leadership. The course also includes an introduction to the program outcomes and relates how the competencies of this course align to those outcomes.

Business Analyst Fundamentals 1

Students learn how to identify and define business needs while navigating diverse business structures. Project roles and responsibilities will be explored with an emphasis on effective communication within each level of the organization. Also examines the necessity of project vision. strategy, goals, objectives, and scope definition. Prerequisite: Business Analyst Essentials 10102210

Business Analyst Fundamentals 2

Students will assess organizational readiness, and learn to identify, manage, and communicate with impacted resources for the success of a project. Students are introduced to change management principles. At the conclusion of this course, along with success with other courses in the program, students will be prepared to take the ECBA certification from IIBA.

Prerequisite: Business Analyst Fundamentals I 10102211

Business Analyst Fundamentals 3

101022153 credits Students create a communication plan to support ongoing collaboration and requirements validation. Explores methods used to communicate, verify, and validate requirements. Prerequisite: Business Analyst Fundamentals 2 10102212

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Continuous Improvement

Emphasizes using data to make sound business decisions. Students gain exposure to various tools used to assemble, organize, and manage data sets. Students further refine their skills in requirements documentation and validation by tracing and prioritizing solution requirements. Students also identify, measure, and validate solution requirements to support organizational change while complying with organizational standards.

Prerequisite: Business Analyst Essentials 10102210

Database Concepts and Design

10156101......3 credits Introduces the concepts of relational database design, development, and maintenance. Topics include relational normalization, referential integrity, and SQL. Corequisite: English Composition 1 10801136

Developmental Psychology

10809188.....3 credits Studies human development throughout the lifespan and 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. Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Intermediate Algebra with Applications

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Diversity Studies 10809172......3 credits

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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Leadership Development

10196190.....**3 credits** Applies skills and tools necessary to fulfill his/her role as a modern leader. Each learner evaluates 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. Recommended Accuplacer scores - Reading 55, Sentence Skills 60, Arithmetic 34

Microsoft Office-Introduction

10103106.....**3 credits** Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, PowerPoint, and Outlook) while reinforcing the students' knowledge of computer concepts, Windows Explorer, and web usage. Students should possess basic keyboarding, mouse and Windows 10 skills. Students may develop these skills in the LiNK while concurrently enrolled in this course.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Project Management

10196188......3 credits Applies skills and tools necessary to design, implement, and evaluate formal projects. Each learner writes a project proposal, works with project teams, sequences project tasks, develops project budgets, identifies project resources, implements the project, charts project progress, deals with variations, evaluates the project, and uses various technology in these processes.

Requirements Analysis

10102213.....3 credits A practical course that provides an overview of the systems development life cycle and then focuses 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. Emphasizes both written and oral communications. Most of the work is done in groups.

Solutions Design

10102216**3 credits** Students assess organizational readiness by facilitating testing and training of the solution. Emphasizes test plan creation, execution, and facilitation as well as the development of training plans. *Prerequisite: Requirements Analysis 10102213*

Speech

108011983 credits

Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

SQL Development

101561023 credits

Expands on earlier courses with advanced SQL syntax (indexes, views, stored procedures, and triggers), database design, and data transformation. Additional topics include alternate database technologies, emerging database trends, and database administration and security. Data warehousing concepts are discussed.

Prerequisite: Database Concepts and Design 10156101

Team Building & Problem Solving

10196189**3 credits** Applies 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, uses a systematic problem-solving process, and employs consensus-building and conflict-management strategies.

Technical Reporting

10801197**3 credits** 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: English Composition I 10801136 with a grade of "C" or better or Written Communication 10801195 with a grade of "C" or better. Proficiency in word processing skills recommended.*

Think Critically & Creatively

108091033 credits

Provides instruction in the vital, realistic, and practical methods of thinking that are in high demand in all occupations of substance today. Provides in-depth consideration of decision making, problem solving, detailed analysis of ideas, troubleshooting, argumentation, persuasion, creativity, setting goals and objectives, and more. Students apply specific thinking strategies and tools to situations in a wide variety of workplace, personal, academic, and cultural situations. Classroom instruction is based on demonstration, discussion, projects, and teamwork. Assignments range from the short and simple to the detailed and complex. Focuses on reality and practicality throughout.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.



business management

Associate in Applied Science (AAS) Program Code: 10-102-3 Total Credits: 63-65

Mid-State's Business Management program provides a broad business background that prepares individuals to work in middle management or run a business. Students develop general technical and interpersonal skills related to management, finance, operations, customer service management, ethics, and much more. Guest speakers, field trips, business tours, and professional organization presentations are combined with hands-on simulations, mock interviews, and projects for local businesses. Students may choose a specialization track, such as entrepreneurship or health care management.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where:	
When:_	

With:

Official Transcripts
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 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

Other:		



ADAMS CAMPUS 401 North Main Adams, WI 53910



MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



Capella University, Business Management (BS)

Herzing University, Business Management (BS)

Lakeland University, **Business Administration-**Management Emphasis (BA)

University of Phoenix, Management (BS)

UW-Oshkosh, Human Services Leadership (BS)

UW-Oshkosh, Organizational Studies emphasis of Leadership and **Organizational Studies (BAS)**

UW-Stevens Point, Management (BS)

For more information and additional opportunities, visit mstc.edu/transfer.

ENTREPRENEURSHIP

TECHNICAL

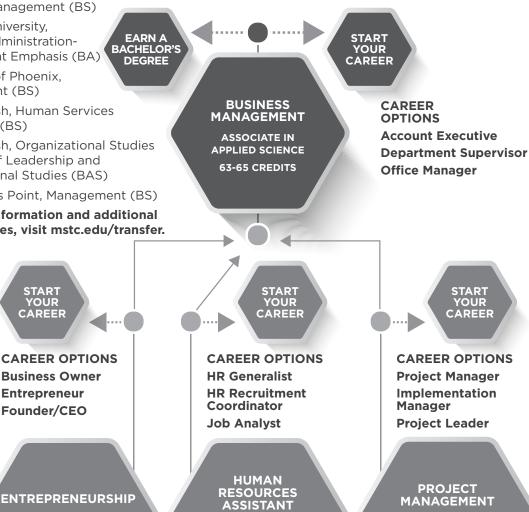
DIPLOMA

30 CREDITS

HIGH

SCHOOL

STUDENT



MANAGEMENT TECHNICAL DIPLOMA 24 CREDITS

OTHER OPTIONS

RELATED PROGRAMS

College Credit • Dual Credit Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.

RETURNING

ADULT

BEGIN AT ANY POINT IN THE PATHWAY

TECHNICAL

DIPLOMA

27 CREDITS

COLLEGE

TRANSFER

 Administrative Professional Customer Relationship Professional

- Leadership Development
- Office Support Specialist

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.

TECHNICAL SKILLS ATTAINMENT

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.

PROGRAM PROGRESSION

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

• Receive a grade of "C" or better in the Business Decision Making course.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term15-16 credits10102110Employment Law310196191Supervision310196193Human Resource Management310801196Oral/Interpersonal Communication -or-310801198Speech310804107College Mathematics3-oror-10804118Intermediate Algebra with Applications4-ororor-10804189Introductory Statistics37Accounting I4-oror-10102121Finance and Budgeting310102124Business Law310102180International Business310102180International Business310102131Entrepreneurial Management310102160Business Decision Making310196188Project Management310196188Project Management310196192Managing for Quality310809195Intro to American Government -oror-10809172Intro to Sociology310809188Developmental Psychology -or-310809188Developmental Psychology -or-310809198Intro to Psychology -or-3	Term 10102101 10103106 10104102 10102138 10801136	15 cred Intro to Business Microsoft Office-Introduction Marketing Principles Organizational Behavior English Composition 1	dits 3 3 3 3 3 3
Term15-16 credits10101111Accounting I4-oror-10102121Finance and Budgeting310102104Business Law310102180International Business310196189Team Building & Problem Solving310809195Economics3Term18 credits10102131Entrepreneurial Management310102160Business Decision Making310196188Project Management310196192Managing for Quality310809122Intro to American Government -or-10809172Introduction to Diversity Studies -or-10809196Intro to Sociology310809188Developmental Psychology -or-	10102110 10196191 10196193 10801196 10801198 10804107	Employment Law Supervision Human Resource Management Oral/Interpersonal Communication -or- Speech College Mathematics -or- Intermediate Algebra with Applications	3 3 3 3 3
10102131Entrepreneurial Management310102160Business Decision Making310196188Project Management310196192Managing for Quality310809122Intro to American Government -or-10809172Introduction to Diversity Studies -or-10809196Intro to Sociology310809188Developmental Psychology -or-	Term 10101111 10102121 10102104 10102180 10196189	15-16 cred Accounting I -or- Finance and Budgeting Business Law International Business Team Building & Problem Solving	dits 4 3 3 3 3
Total credits 63-65	10102131 10102160 10196188 10196192 10809122 10809172 10809196 10809188	Entrepreneurial Management Business Decision Making Project Management Managing for Quality Intro to American Government -or- Introduction to Diversity Studies -or- Intro to Sociology Developmental Psychology -or- Intro to Psychology	3 3 3 3 3 3 3

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10102101 10103106 10104102	Intro to Business Microsoft Office-Introduction Marketing Principles	9 credits 3 3 3
Term 10101111	Accounting I -or-	-10 credits 4
10102121 10102138 10801136	Finance and Budgeting Organizational Behavior English Composition 1	3 3 3
Term 10196191 10196193 10801196 10801198	Supervision Human Resource Management Oral/Interpersonal Communication Speech	9 credits 3 -or- 3
Term 10102104 10102110 10804107	9 Business Law Employment Law	-10 credits 3 3 3
10804107 10804118 10804189	College Mathematics -or- Intermediate Algebra with Applicat -or- Introductory Statistics	
Term 10102180 10196189 10809195	International Business Team Building & Problem Solving Economics	9 credits 3 3 3
Term 10196188 10196192 10809122 10809172 10809196	Project Management Managing for Quality Intro to American Government -or- Introduction to Diversity Studies -o Intro to Sociology	9 credits 3 3 r- 3
Term 10102131 10102160 10809188 10809198	Entrepreneurial Management Business Decision Making Developmental Psychology -or- Intro to Psychology	9 credits 3 3 3
Total credits 63-65		

Accounting I

10101111.......4 credits 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. Also 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.

Business Decision Making

10102160.....**3 credits** 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 decisionmaking process.

Prerequisites: Twelve Business Management 10-102 credits, Human Resources Management 10196193, and Supervision 10196191

Business Law

10102104.....**3 credits** Introduces 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.

College Mathematics

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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Developmental Psychology

10809188......3 credits Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Economics

10809195....**3 credits** Provides an overview of how a market-oriented economic system operates and surveys the factors that 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Employment Law

10102110.....**3 credits** Introduces a broad scope of employment laws and provides the opportunity to apply these laws to the employment arena. Includes 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 ACA; and unemployment and worker's compensation insurance.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Entrepreneurial Management

10102131.....**3 credits** Introduces students to the concept of entrepreneurship.

Learners study entrepreneurial practices primarily by developing a business plan for a venture of their choice. This includes comparing ways of going into business as well as developing marketing, legal, financial, products/ services, management, and operations plans 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.

Finance and Budgeting

10102121.....**3 credits** For the nonfinancial manager, this course introduces the language of accounting, finance, and budgeting. Provides an overview of the use and analysis of financial statements. Business planning and the foundations and development of budgets are explored. Business financing basics and the securing of necessary financing for a business are covered. Practical application of financial statement creation and analysis, budgetary activities, and finance calculations are included.

Human Resource Management

10196193.....3 credits Applies skills and tools necessary to perform human resource functions in an organization. Each learner demonstrates 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.

Intermediate Algebra with Applications

10804118......**4 credits** 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; and algebra of inverse, logarithmic, and exponential functions. *Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic* of 263 and QAS 234 or ACT of 19 or QAS of 245, or Pre-Algebra 10834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

International Business

10102180.....**3 credits** 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 also research a particular country in depth.

Intro to American Government

10809122.....3 credits

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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Business

10102101.....**3 credits** 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.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Intro to Sociology

10809196.....**3 credits** Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Diversity Studies

10809172.....3 credits 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Introductory Statistics

10804189.....**3 credits** 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: High School GPA of 3.0 or Accuplacer QAS 241 or ACT of 19 or Pre-Algebra 834109 with a grade of "C" or better or College Math 804107 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Managing for Quality

10196192.....3 credits 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 systemsfocused approach, use quality models and tools, manage a quality improvement project, and measure effectiveness of continuous improvement activities.

Marketing Principles

10104102.....**3 credits** This course serves as an introduction to the fundamental marketing concepts used to apply marketing strategies to product development, distribution, pricing, and promotion of goods and services.

Microsoft Office-Introduction

10103106.....**3 credits** Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, PowerPoint, and Outlook) while reinforcing the students' knowledge of computer concepts, Windows Explorer, and web usage. Students should possess basic keyboarding, mouse and Windows 10 skills. Students may develop these skills in the LiNK while concurrently enrolled in this course.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Organizational Behavior

10102138.....**3 credits** This course assists the learner in becoming a more effective co-worker, team member and organizational citizen through an understanding of the key principles of how people behave within organizations and in turn, predict and influence future behavior. As a result, the learner will analyze organizational structures, assess organizational culture, analyze leadership types and styles, apply conflict resolution strategies, explore power relationships, implement change management techniques, demonstrate effective team management and describe the ingredients of diversity as these aspects are related to people's behavior in organizations.

Project Management

10196188......3 credits Applies skills and tools necessary to design, implement, and evaluate formal projects. Each learner writes a project proposal, works with project teams, sequences project tasks, develops project budgets, identifies project resources, implements the project, charts project progress, deals with variations, evaluates the project, and uses various technology in these processes.

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Supervision

10196191.....**3 credits** Applies 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.

Team Building & Problem Solving

10196189**3 credits** Applies 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, uses a systematic problem-solving process, and employs consensus-building and conflictmanagement strategies.



central service technician

Technical Diploma Program Code: 30-534-1 Total Credits: 17-20

Mid-State's hands-on Central Service Technician program prepares students to work with supplies and equipment related to surgery, obstetrics, emergency departments, and other patient care settings. Effective communication is vital within this multi-service area. The curriculum includes online instruction, lab, and clinical experience. The clinical portion of the course places students at a minimum of two sites. Students learn the principles of standard precautions, asepsis, disinfection, and sterilization procedures. Course completion leads to a technical diploma and eligibility for certification exams.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:

When:

With:____

Official Transcripts

Mid-State Technical College

Student Services Assistant

1001 Centerpoint Drive

Stevens Point, WI 54481

Criminal Background Statement of Understanding and Release of Information Form

Other:



ADAMS CAMPUS 401 North Main Adams, WI 53910



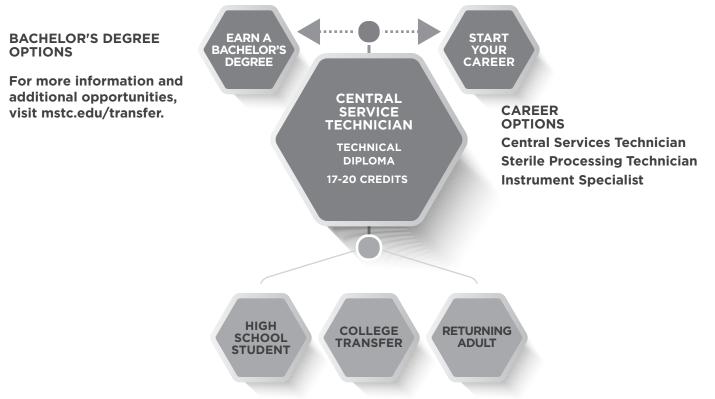
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Health & Wellness Promotion
- Health Information Management
- Medical Assistant
- Medical Coder
- Nursing
- Nursing Assistant
- Pharmacy Services Management
- Pharmacy Technician
- Phlebotomy Technician
- Respiratory Therapy
- Surgical Technologist

PROGRAM OUTCOMES

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

- Apply principles of infection control in the role of the central service technician.
- Decontaminate instruments and equipment.
- Prepare instruments, equipment, and supplies.
- Apply sterilization techniques.
- Perform inventory control and distribution.
- Function as an ethical, legal, and professional member of the health care team.

TECHNICAL SKILLS ATTAINMENT

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. Students who successfully complete the skills demonstrations in the clinical courses will meet the TSA requirements.

ADDITIONAL ENTRY CRITERIA

To apply to the Central Service Technician program, please submit the following document to Mid-State Admissions:

• Criminal Background Statement of Understanding and Release of Information form

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

TECHNICAL STANDARDS

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 & Information Center 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 health work 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. Mid-State will make two attempts to place a student in an appropriate clinical experience. If Mid-State 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.

PROGRAM PROGRESSION AND COMPLETION

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 program's instructional area.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.



GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

108381042 credits Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term	17-20 c	redit
10501101	Medical Terminology	3
10501107	Digital Literacy for Healthcare	2
10501109	Medical Law, Ethics, and Professionalism	2
30534301	Central Service	5
31509302	Human Body in Health and Disease	3
	-or-	
10806177	General Anatomy & Physiology	4
10806197	Microbiology	4
	-or-	
31806311	Applied Microbiology	2
	Total credits ⁻	17-20

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10501101 10501107 31509302	8-9 Medical Terminology Digital Literacy for Healthcare Human Body in Health and Disease -or-	credits 3 2 3
10806177	General Anatomy & Physiology	4
Term 10501109 30534301 10806197 31806311	9-11 Medical Law, Ethics, and Professionalism Central Service Microbiology -or- Applied Microbiology	credit 2 5 4
31800311	Applied Microbiology	Z
	Total credits	5 17-20

Applied Microbiology

31806311.....**2 credits** 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.

Central Service

30534301..... 5 credits 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 area of 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 will be utilized in the clinical portion of this class.

. Prerequisite: Admission to Central Service Technician program 305341

Digital Literacy for Healthcare

105011072 credits The focus of this course is the use of technology in healthcare. Learners use common business software applications, including word processing, presentation, spreadsheet, and databases. Communication methods using technology are addressed. Learners gain experience with using the electronic health record (EHR). Healthcare EHR security issues, social media use, and digital healthcare resources are examined.

General Anatomy & Physiology

10806177.....**4 credits** 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. *Prereavisite: High School GPA of 3.0 or Accuplacer Reading Skills of*

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236 or ACT of 15, or General Chemistry 10806134 with a grade of "C" or better, or General Biology 10806114 with a grade of "C" or better, or Human Body in Health & Disease 10509102 with a "C" or better. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Human Body in Health and Disease

31509302.....**3 credits** 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.

Medical Law, Ethics, and Professionalism

10501109......**2 credits** Prepares students to display professionalism and perform within ethical boundaries in the healthcare setting. Students maintain confidentiality, examine legal aspects of the medical record, perform risk management procedures, examine legal and bioethical issues, and demonstrate awareness of diversity.

Medical Terminology

10501101.....**3 credits** Focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Learners practice formation, analysis, and reconstruction of terms. Emphasizes spelling, definition, and pronunciation. Introduces operative, diagnostic, therapeutic, and symptomatic terminology of all body systems as well as systemic and surgical terminology.

Microbiology

10806197...... 4 credits

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 with a "C"* or better, or General Biology 10806114 with a "C" or better, or *Plant Biology 10806184 with a grade of "C" or better*



civil engineering technology-highway technician

Associate in Applied Science (AAS) Program Code: 10-607-4 Total Credits: 68

Mid-State's Civil Engineering Technology-Highway Technician program prepares students to work in the construction of public projects like roads, bridges, parking structures, and stormwater management systems. This important work also includes railroad, pipeline, power line, dam, canal, wastewater treatment facility, and airport construction. Through hands-on exercises and a capstone design project, you'll learn how to support the work of civil engineers, designers, surveyors, and city planners. You'll also receive training in surveying, soils, construction material testing, computer drafting, estimating, site design, mapping, and inspection procedures.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:	
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

Other:	



ADAMS CAMPUS 401 North Main Adams, WI 53910



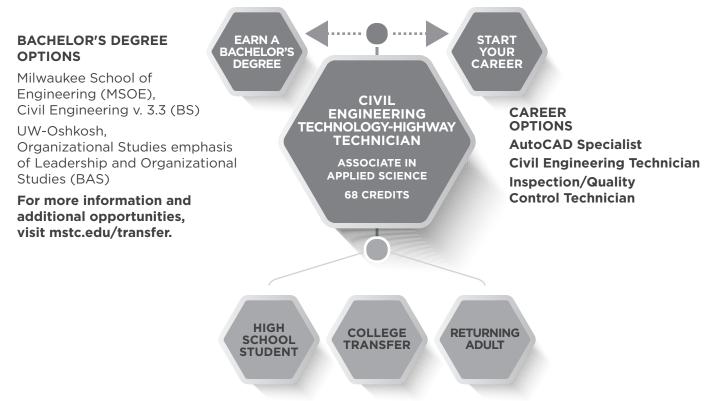
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Electrical Power Engineering Technician
- Industrial Automation & Controls Engineering Technology

PROGRAM OUTCOMES

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

- Utilize graphic techniques to produce engineering drawings.
- Conduct standardized field and laboratory testing on civil engineering materials.
- Utilize modern surveying methods for land measurements and/or construction layout.
- Estimate material quantities and costs for civil engineering projects.
- Utilize geometric elements to develop corridors.
- Design storm systems to meet given design requirements.
- Determine forces and stresses in elementary structural systems.
- Employ productivity software to solve technical problems.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

NOTES:

STUDENT HANDBOOK

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GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10103123 10607108 10607145 10607155 10623106 10623115 10801136 10804118	16 Excel-Beginning Intro to Civil 3D Soils Intro to Surveying Intro to AutoCAD Intro to Engineering English Composition 1 Intermediate Algebra with Applications	credits 1 3 2 1 1 3 5 4
Term 10103124 10487101 10607110 10607150 10607156 10607167 10804196	17 Excel-Intermediate Drones and Remote Sensing Cemented Aggregate Mixtures Civil Engineering Drafting I Surveying - Total Station Inspection Trigonometry with Applications	credits 1 4 3 2 3
Term 10607117 10607118 10607160 10607170 10607171 10607174 10806143 10809166 10809195	18 GIS Fundamentals Land Records Civil Engineering Drafting II Storm Water Management Highway Surveying GPS for Surveyors College Physics 1 Intro to Ethics: Theory & Application - C Economics	credits 2 1 2 3 2 2 3 5 7 - 3
Term 10607149 10607166 10607180 10801196 10801198 10804195 10809188 10809198	17 Highway Bridges, Medians, & Barriers Construction Estimating & Managemen Civil Engineering Capstone Oral/Interpersonal Communication -or Speech College Algebra with Applications Developmental Psychology -or- Intro to Psychology	2 3 3 3

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term11 credit10607150Civil Engineering Drafting I310607156Surveying - Total Station310607167Inspection210804196Trigonometry with Applications3Term7 credits10103123Excel-Beginning110607145Soils310801136English Composition 13Term8 credits10103124Excel-Intermediate110487101Drones and Remote Sensing110806143College Physics 1310809166Intro to Ethics: Theory & Application -or-310607160Civil Engineering Drafting II210607170Storm Water Management310607171Highway Surveying2
10103123 Excel-Beginning 1 10607145 Soils 3 10801136 English Composition 1 3 Term 8 credits 10103124 Excel-Intermediate 1 10487101 Drones and Remote Sensing 1 10806143 College Physics 1 3 10809166 Intro to Ethics: Theory & Application -or- 10809195 Economics 3 Term 7 credits 10607160 Civil Engineering Drafting II 2 10607170 Storm Water Management 3
10103124Excel-Intermediate110487101Drones and Remote Sensing110806143College Physics 1310809166Intro to Ethics: Theory & Application -or-10809195Economics3Term10607160Civil Engineering Drafting II22310607170Storm Water Management3
10607160Civil Engineering Drafting II210607170Storm Water Management3
Term10 credits10607110Cemented Aggregate Mixtures410607166Construction Estimating & Management310804195College Algebra with Applications3
Term8 credits10607117GIS Fundamentals210607118Land Records110607174GPS for Surveyors210801196Oral/Interpersonal Communication -or-10801198Speech3
Term8 credits10607149Highway Bridges, Medians, & Barriers310607180Civil Engineering Capstone210809188Developmental Psychology -or-110809198Intro to Psychology3Total credits 68

Cemented Aggregate Mixtures

Civil Engineering Capstone

106071802 credits This capstone class is a project-based learning experience that 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, students 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*

Civil Engineering Drafting I

10607150.....**3 credits** Students will use survey data to create and analyze existing ground surface models in Civil 3D. Students will also learn basic and advanced corridor modeling methods, create cross sections, analyze earthwork volumes, and apply dynamic annotation in order to produce construction drawings.

Prerequisite: Intro to Civil 3D 10607108

Civil Engineering Drafting II

10607160.....**2 credits** Expands on topics learned in Civil Engineering Drafting I. Topics covered include site layout and modeling, as well as sanitary sewer, water main, and dry utility layout and modeling.

Prerequisite: Civil Engineering Drafting I 10607150

College Algebra with Applications

108041953 credits Covers the 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, combinatories, and the binomial theorem.

Prerequisite: Trigonometry with Applications 10804196 with a grade of "C" or better or Intermediate Algebra with Applications 10804118 with a grade of "C" or better. Students without Trigonometry with Applications are encouraged to bring transcripts for individual course evaluation.

Construction Estimating & Management

10607166**3 credits** Presents goals and performance of quantity takeoff, cost estimation, and contract interpretation. Project bidding, construction techniques, and equipment capabilities are evaluated.

Prerequisites: Excel-Intermediate 10103124, Intermediate Algebra with Applications 10804118, and Intro to AutoCAD 10623106

Developmental Psychology

10809188.....3 credits Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Drones and Remote Sensing

10487101.....**1 credit** This course will explore topics included in the Section 107 Drone Pilot License exam, as well as drone and remote sensing applications in the civil engineering industry. Students will have the opportunity to fly drones in order to capture data for use in engineering design. *Corequisite: Civil Engineering Drafting I 10607150*

Economics

10809195**3 credits** Provides an overview of how a market-oriented economic system operates and surveys the factors that 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

English Composition 1

10801136.....**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Excel-Beginning

10103123.....1 credit Students learn to create, modify, and format spreadsheets, charts, and graphics. Students also learn to perform calculations and analysis on data.

Excel-Intermediate

101031241 credit Students learn to summarize and analyze large data sets. Some of Excel's data tools and what-if tools are applied. *Prerequisite: Microsoft Office-Introduction 10103106 or Excel-Beginning 10103123*

College Physics 1

10806143.....**3 credits** Presents the applications and theory of basic physics principles. This course emphasizes problem solving, laboratory investigation and applications. Topics include laboratory safety, unit conversions and analysis, kinematics, dynamics, work, energy, power, temperature and heat. *Corequisite: Trigonometry with Applications 10804196*

GIS Fundamentals

10607117**2 credits** An introduction to geographic information systems (GIS) and how they are used to document and convey information that has a spacial component. Students use GIS software to create, manipulate, and present geographic information.

GPS for Surveyors

10607174.....**2 credits** A GNSS surveying instrument and data collector are operated to collect field data and perform construction staking Learners will explain the CNSS sustain and diagness.

staking. Learners will explain the GNSS system and diagnose problems with data collection and use the data collector to analyze field data and create linework for stakeout. *Prerequisites: Intro to Surveying 10607155, Intro to Civil 3D 10607108.*

Highway Bridges, Medians, & Barriers

10607149.....**3 credits** Studies the processes, considerations, and safety aspects of constructing and maintaining highway bridges, medians, and barriers. 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*

Highway Surveying 10607171

10607171.....2 credits

Learners will explain the geometry of horizontal curves, vertical curves and super elevation with consideration of WISDOT design requirements. Civil 3D and spreadsheet software are used to model basic curves and produce reports from the software that could be used for construction staking. Learners will also perform calculations manually in preparation for the NSPS-CST exam. Prerequisites: Intro to Surveying 10607155, Civil Engineering Drafting I 10607150; Corequisite: Trigonometry with Applications 10804196

Inspection

10607167.....2 credits

Concerns construction inspection and its importance, the role of the inspector, requirements for a good inspector, and general duties of the inspector. Emphasizes concrete and asphalt inspection.

Prerequisite: Intro to Surveying 10607155

Intermediate Algebra with Applications

Intro to AutoCAD

106231061 credit Learners will develop practical approaches to constructing basic 2D drawings in AutoCAD software by drawing, modifying, and assigning appropriate layer properties. Learners will also analyze length and area of shapes drawn in AutoCAD, summarize details through dimensions and annotations added to the drawings, and format the drawings for printing. Prior experience with computers is recommended.

Intro to Civil 3D

106071081 credit

This introductory course in Civil 3D covers basic two-dimensional drafting concepts, including the layout of roads and parcels in a subdivision. Alignments, parcels, and dynamic labels will be created and explored using Civil 3D software.

Corequisite: Intro to AutoCAD 10623106

Intro to Engineering

10623115.....**1 credit** Mathematical solutions are arranged through dimensional analysis, and this process is applied to a variety of engineering situations. Life cycle cost is evaluated to determine the cost effectiveness in decision making. Practical applications will enhance these fundamentals. *Corequisite: Intermediate Algebra w/Apps 10804118 or consent of instructor*

Intro to Ethics: Theory & Application

10809166.....**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Psychology

108091983 credits

This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Surveying

10607155.....2 credits Learners will use basic surveying instruments to measure/ estimate horizontal lengths, an automatic level to determine elevation, and research survey data online. Resolve measurement errors and report results in appropriate formats. Create cross section and profile views from survey data.

Corequisite: Intermediate Algebra with Applications 10804118

Land Records

106071181 credit

Interpret land documents, including various types of property descriptions, Certified Survey Maps, and USGS maps. Interconvert azimuth, bearing, and turned angles. Assess evidence for corner restoration and research a local survey document.

Prerequisite: Civil Engineering Drafting I 10607150, Survey-Total Station 10607156

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Soils

106071453 credits

Studies the general classification and properties of soil and subsurface materials. Includes subsurface exploration soil tests and hydraulic principles 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* Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Storm Water Management

10607170.....**3 credits** Emphasizes storm water management, calculations, planning, and design. Topics include open channel and pressure flow, storage and treatment facility design concepts, and regulation, permitting, and enforcement of sanitary and storm water ordinances. *Prerequisite: Civil Engineering Drafting I 10607150; Corequisite: Trigonometry with Applications 10804196*

Surveying - Total Station

10607156......3 credits Learners will operate a robotic total station and data collector to collect field data and perform construction staking. Civil 3D software is used to interpret field data, solve survey calculations, and convey plat information. Learners will manually perform calculations to confirm data collector solutions and to prepare for the written NSPS-CST exam. Learners will perform a traverse and adjust the results. *Prerequisites: Intro to Surveying 10607155, Intro to Civil 3D 10607108. Corequisite: Trigonometry with Applications 10804196 and Civil Engineering Drafting I 10607150*

Trigonometry with Applications

10804196.....**3 credits** 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. Students without Intermediate Algebra with Applications are encouraged to bring transcripts for individual course evaluation.*



construction trades

Technical Diploma Program Code: 30-475-1 Total Credits: 12

Mid-State's Construction Trades technical diploma provides the foundation knowledge and experience to get started in the construction, carpentry, plumbing, electrical, and pipefitting fields. Graduates understand the various components of building construction systems as well as proper and safe tool use and installation techniques for piping, heating, and electrical systems. Successful completion of the diploma prepares students for an entry-level position in the construction trades industry. The program includes work in an interactive hands-on lab and a year-round larger lab complete with an "indoor house." Through exposure to multiple fields and industries, graduates are prepared to enter the trade they choose.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where: _	
When:	
With:	

Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481



ADAMS CAMPUS 401 North Main Adams, WI 53910



MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449

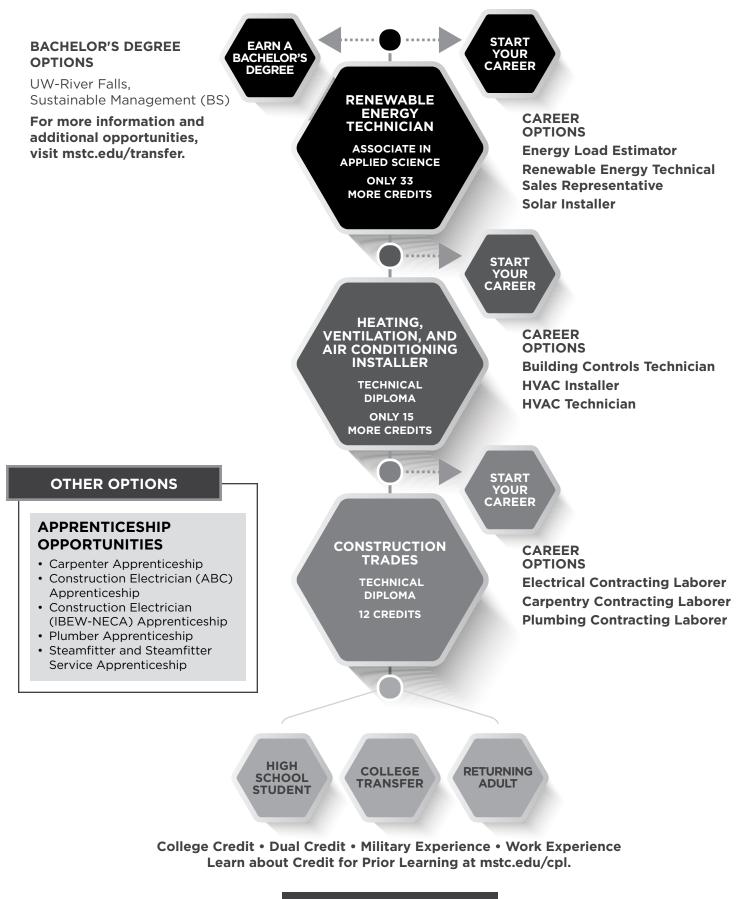


STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

^{Other:_____}

career pathway



BEGIN AT ANY POINT IN THE PATHWAY

PROGRAM OUTCOMES

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

- Demonstrate construction safety.
- Use construction tools and equipment.
- Identify common construction materials.
- Interpret construction documents and blueprints.
- Review construction management and scheduling documentation.
- Illustrate site preparation and layout.
- Construct a building structure using wood framing techniques.
- Recognize plumbing, HVAC, and electrical systems.
- Test electrical circuits or components for continuity, using electrical test equipment.
- Comply with all applicable standards, policies, and procedures, including safety procedures and the maintenance of a clean work area.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term	12 cre	dits
10442117	Welding Fundamentals 1	1
10476170	OSHA 30 for the Construction Trades	2
10482107	Construction Fundamentals	2
10483121	Piping Applications	3
10601130	Blueprint Reading for Construction Trades	2
10601140	Electricity for the Construction Trades	2

Total credits 12

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

10476170	Welding Fundamentals 1 OSHA 30 for the Construction Trades Construction Fundamentals	1 2 2
10601130 E	7 cred Piping Applications Blueprint Reading for Construction Trades Electricity for the Construction Trades Total credits	3 2 2

course descriptions

Blueprint Reading for Construction Trades

10601130.....**2 credits** Develops the ability to read blueprints for commercial and non-commercial structures. Emphasizes blueprints drawn by licensed architects, covering plumbing, electrical wiring, structural framing, millwork, interior and exterior details, and basic information.

Construction Fundamentals

10482107.....2 credits Studies the concepts associated with the theory, materials, and methods used in construction, including 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. Students also become familiar with blueprint reading and examine all trades associated with construction, including, electrical, HVAC, and plumbing. Safe use of the appropriate tools for each trade is covered.

Electricity for the Construction Trades

10601140.....**2 credits** This course is an introduction to electrical theory and application for those in the construction and building trades. Content includes AC and DC circuits, schematics, Ohms law, multimeter use and circuit troubleshooting. This course will also provide an introduction to the contents of the National Electric Code (NEC).

OSHA 30 for the Construction Trades

10476170.....**2 credits** The Occupational Safety and Health Administration (OSHA) 30 for the Construction Trades course teaches construction related workers about their rights, employer responsibilities and how to identify, abate, avoid and prevent job related hazards. Course outcomes align with the training outcomes recommended by OSHA. Upon successful completion, students will receive an OSHA 30 Card.

Piping Applications

10483121.....3 credits Presents the fundamentals of plumbing and piping installation practices. Laboratory activities provide students with basic pipe joining processes associated with the plumbing and HVAC industries.

Welding Fundamentals 1

10442117**1 credit** An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of FCAW, GMAW, and OXY-Fuel cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.



corrections & community advocacy

Associate in Applied Science (AAS) Program Code: 10-504-7 Total Credits: 61-62

Unique in the Wisconsin Technical College System, the Corrections & Community Advocacy program at Mid-State teaches the operations and management of adult/juvenile correctional institutions, probation/ parole, community advocacy agencies, special needs populations, alcohol and other drug abuse, and mental health services. Graduates may work in jails, prisons, juvenile detention facilities, halfway houses, and shelter care facilities as well as in the court system. Experienced faculty emphasize professionalism and integrity needed to work in these settings. You'll experience a blend of classroom theory, simulation, and occupational observation, setting you up for success in this field. Our state-of-the-art facilities include a reproduction of a secure detention facility to allow you to develop your skills in a safe yet challenging environment.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

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When:

With:____

□ Official Transcripts

Mid-State Technical College

Student Services Assistant

1001 Centerpoint Drive

Stevens Point, WI 54481

Criminal Background Statement of Understanding and Release of Information Form

Other:

mstc.edu 888.575.6782

> ADAMS CAMPUS 401 North Main Adams, WI 53910



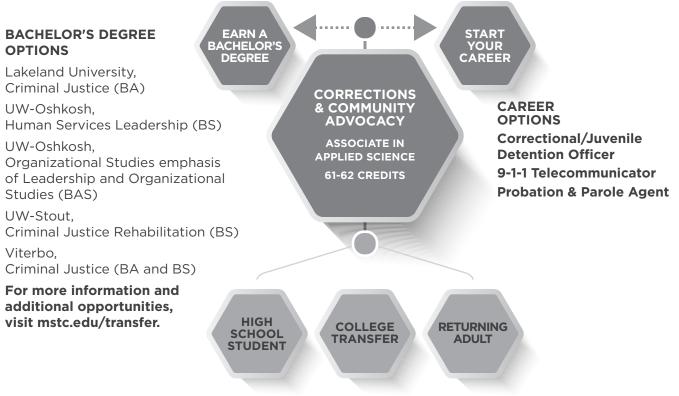
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Criminal Justice-Law
 Enforcement 720 Academy
- Criminal Justice-Studies
- Emergency Medical Technician
- Emergency Services Management
- EMT-Paramedic
- Fire Protection Technician
- Paramedic Technician

PROGRAM OUTCOMES

Employers will expect you, as a Corrections & Community Advocacy graduate, to be able to:

- Explain the components of and interrelationships in the criminal justice system.
- Apply appropriate communication skills to public safety incidents.
- Establish situational safety.
- Engage effectively with vulnerable and disenfranchised individuals/populations.
- Model a healthy lifestyle.
- Adhere to accepted culturally competent, ethical, and behavioral conduct.

TECHNICAL SKILLS ATTAINMENT

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. Students will be assessed during scenario testing in the Advanced Relational Skills course.

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/colocated 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.

PROGRAM PROGRESSION

In order to successfully complete the program, students must earn a grade of "C" or better in all program and general education courses required for graduation. Please note that the ability to repeat courses is dependent upon availability of courses.

TECHNICAL STANDARDS

A list of specific physical, emotional, and mental tasks needed to function as a jail officer is available at **mstc.edu/programs/corrections-community-advocacy**. Contact the Disability Services coordinator in the Student Services & Information Center to receive assistance.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

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108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

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10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

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10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10504112 10504114 10504176 10801136 10809166	15 credi Court Procedures Introduction to Law Enforcement Corrections/Correctional Institutions English Composition 1 Intro to Ethics: Theory & Application	ts 3 3 3 3 3 3 3
Term 10504156 10504158 10504159 10504175 10801196 10801198	15 credi Child Advocacy Basic Mediation Interpersonal Violence/Victimology Understanding Substance Abuse Oral/Interpersonal Communication -or- Speech	ts 3 3 3 3 3
Term	16-17 credi	tc.
10504128	Telecommunications	
10504128	Secure Detention	2 2
10504178	Basic Jail Academy 1 -or-	2
10504165	Basic Incarceration Principles	3
10504185	Basic Jail Academy 2 -or-	5
10504167	Trauma & Resiliency	3
10804107	College Mathematics	3
	-or-	•
10804118	Intermediate Algebra with Applications	4
	-or-	
10804189	Introductory Statistics	3
10809188	Developmental Psychology -or-	
10809198	Intro to Psychology	3
Term	15 credi	ts
10504116	Probation & Parole	3
10504132	Advanced Relational Skills	3
10504144	Wellness in Protective Services	3
10504179	Management of Adult Population	3
10809172	Introduction to Diversity Studies -or-	
10809196	Intro to Sociology	3
	Total credits 61-6	52

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10504112 10504114 10504176	Court Procedures Introduction to Law Enforcement Corrections/Correctional Institutions	9 credits 3 3 3 3
Term 10504156 10504158 10504159 10801136	Child Advocacy Basic Mediation Interpersonal Violence/Victimology English Composition 1	12 credits 3 3 3 3 3
Term 10804107	6 College Mathematics	-7 credits 3
10804118	-or- Intermediate Algebra with Applicatio	ons 4
10804189 10809166	-or- Introductory Statistics Intro to Ethics: Theory & Application	3 3
Term 10504116 10504175 10801196 10801198 10809188 10809198	Probation & Parole Understanding Substance Abuse Oral/Interpersonal Communication - Speech Developmental Psychology - or - Intro to Psychology	12 credits 3 or- 3 3
Term 10504128 10504178 10504184 10504165 10504185 10504167	Telecommunications Secure Detention Basic Jail Academy 1 -or- Basic Incarceration Principles Basic Jail Academy 2 -or- Trauma & Resiliency	IO credits 2 2 3 3
Term 10504132 10504144 10504179 10809172 10809196	Advanced Relational Skills Wellness in Protective Services Management of Adult Population Introduction to Diversity Studies -or - Intro to Sociology	3
	Total cree	dits 61-62

Advanced Relational Skills

10504132.....**3 credits** Utilizes scenario-based instruction to prepare students in the use of specific techniques and processes required for effective communication in today's professional criminal justice professions. Emphasizes communication skills that enhance professional interactions within service professions. Learners will complete a basic resume, cover letter, and background packet. Learners will prepare for a criminal justice career interview and participate in a mock interview with current practitioners. A program requirement for community service will also be tracked in this course. *Prerequisite: Admission to Corrections & Community Advocacy program 105047*

Basic Incarceration Principles

10504165**3 credits** Learners will explore topics relating to the rights of incarcerated populations, maintaining personal vigilance and environmental safety in detention facilities, caring for mentally and physically fragile populations, and communicating with inmates and facility staff. *Corequisite: Trauma & Resiliency 10504167*

Basic Jail Academy 1

105041843 credits This State of Wisconsin jail preparatory training program includes the following topics: Introduction to Corrections, Principles of Subject Control, Maintain Jail Security, Jail Hostage Response, Professional Communication Skills, Ethics and Ethical Decision Making, Admit and Release Inmates, Inmate Supervision and Behavior Control, Supervision of Special Needs Inmates/Crisis Intervention, Prepare Reports, Correctional Law, Jail Health Care, Cardio-Pulmonary Resuscitation, Jail Fire Safety, Application: Scenarios/ Simulations, and Testing/Evaluation. Once learners successfully complete this course and the Basic Jail Academy 2 course, they are eligible for certifiable status by the State of Wisconsin to work in a county jail. This is primarily a lab-based class. Prerequisites: Admission to Corrections and Community Advocacy 105047 program, passing of a background check and medical screening; Corequisite: Basic Jail Academy 2 10504185

Basic Jail Academy 2 10504185.....

10504185.....3 credits

This State of Wisconsin jail preparatory training program includes the following topics: Introduction to Corrections, Principles of Subject Control, Maintain Jail Security, Jail Hostage Response, Professional Communication Skills, Ethics and Ethical Decision Making, Admit and Release Inmates, Inmate Supervision and Behavior Control, Supervision of Special Needs Inmates/Crisis Intervention, Prepare Reports, Correctional Law, Jail Health Care, Cardio-Pulmonary Resuscitation, Jail Fire Safety, Application: Scenarios/ Simulations, and Testing/Evaluation. Once learners successfully complete this course and the Basic Jail Academy 1 course, they are eligible for certifiable status by the State of Wisconsin to work in a county jail. This is primarily a lab-based class. Prerequisite: Admission to Corrections and Community Advocacy 105047 program, passing of a background check and medical screening; Corequisite: Basic Jail Academy 1 10504184

Basic Mediation

10504158.....3 credits Examines how to handle conflict using a mediation technique involving two or more parties who agree to meet with an impartial third party to try to resolve their dispute. Offers basic mediation training through role-playing, lectures, exercises, case histories, and demonstrations of disputes and dispute resolution. Designed for occupations requiring resolution of disagreements.

Child Advocacy

105041563 credits Introduces the concepts of child advocacy with an emphasis on the public service professional's role in identifying and managing situations involving child abuse and neglect. Provides an overview of the field of child advocacy, and explores the role of child advocate in different professions as well as ethical, legal, and professional responsibilities. Takes a multi-disciplinary team approach to examining family problems related to poverty, drug abuse, and violence. Adverse Childhood Experiences (ACEs) are examined.

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Corrections/Correctional Institutions

10504176.....3 credits 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. *Prerequisite: Admission to Criminal Justice-Studies program 105045*

Prerequisite: Admission to Criminal Justice-Studies program 105045 or Corrections & Community Advocacy program 105047

Court Procedures

10504112.....**3 credits** Examines the court system, including procedures from incident of arrest to final disposition. The stages of a criminal trial are examined in depth. Reviews the authority of law enforcement officials to arrest and/or detain a subject. Constitutional, federal, state, and civil laws as they apply to this criminal process are presented. Victims' rights are examined.

Prerequisite: Admission to Criminal Justice-Studies program 105045 or Corrections & Community Advocacy program 105047

Developmental Psychology

10809188.....3 credits Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Intermediate Algebra with Applications

10804118......**4 credits** 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; and algebra of inverse, logarithmic, and exponential functions. *Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 263 and QAS 234 or ACT of 19 or QAS of 245, or Pre-Algebra 10834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Interpersonal Violence/Victimology

10504159.....**3 credits** Explores interpersonal violence, defined as abuse that occurs between people who know each other and that can occur within or outside a family setting. This abuse involves one person who uses power and control over another through physical, sexual, or emotional threats or actions; economic control; isolation; or other kinds of coercive behavior. Explores different types of interpersonal violence, including physical abuse, bullying, dating/relationship violence, gang violence, and sexual violence.

Intro to Ethics: Theory & Application

108091663 credits 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Sociology

10809196.....**3 credits** Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Diversity Studies

10809172.....3 credits 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not*

Introduction to Law Enforcement

meet these requirements.

10504114.....**3 credits** Explores who the police are, what they do and how they do it. The course provides a general overview of policing in our society so that learners can understand why and how policing is performed. Addresses jobs available in policing, how to get them, what skills you will need and what you will do when you get those jobs. Learners will get a clear look at policing to help them determine if this career is for them. *Prerequisite: Admission to Criminal Justice-Studies program 105045 or Corrections & Community Advocacy program 105047; Corequisite: English Composition 1 10801136*

Introductory Statistics

10804189.....**3 credits** 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: High School GPA of 3.0 or Accuplacer QAS 241 or ACT of 19 or Pre-Algebra 834109 with a grade of "C" or better or College Math 804107 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Management of Adult Population

10504179.....**3 credits** Reviews the importance of working positively with the incarcerated adult population. Focuses on the practice of constructive interaction skills, including positive behavior control, dispute resolution, and incident debriefing. Learners explore belief systems, social pressure, moral problems, decision making, and the consequences of decisions. *Prerequisite: Admission to Corrections & Community Advocacy program 105047*

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Probation & Parole

10504116.....**3 credits** Analyzes modern probation and parole practices and services, examines current probation procedures and the case law affecting those decisions. Reviews the advantages of community-based treatment and special programs. Through learning activities, students are exposed to a portion of the "daily life" of a probation and parole agent.

Secure Detention

10504178.....**2 credits** Reviews theories of adolescent development, history of juvenile court, the Wisconsin Juvenile Justice Code, and the Wisconsin Administrative Code as it applies to juvenile offenders. Learners become familiar with procedures to admit/release adolescents in secure detention. Learners also apply strategies for effective supervision, protection, and discipline of juveniles and adolescents in secure detention settings, including those classified as specialneeds offenders. Students meeting all requirements of this course they will be certifiable to work in a juvenile detention colocated facility in the State of Wisconsin. *Prerequisite: Admission to Corrections & Community Advocacy program 105047*

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Telecommunications

10504128.....2 credits Examines the duties of a 9-1-1 telecommunicator and their role in the public safety team. Focuses on how to handle an emergency when someone calls or radios for help. Further, the learner will review roles and responsibilities, legal aspects, interpersonal communications, trending technology, telephone techniques and call processing, call classification, and radio communications. Learners will discover how to take care of themselves as a 9-1-1 telecommunicator.

Trauma & Resiliency

10504167.....3 credits Learners will explore the causes and effects of trauma and poverty on youth and adult disenfranchised populations.

Through the principles of Trauma Informed Care, learners will experience resiliency-building techniques and practice strategies for communicating and advocating for people affected by trauma.

Corequisite: Basic Incarceration Principles 10504165

Understanding Substance Abuse

10504175.....**3 credits** Examines the problems of drug abuse and issues across the spectrum, including the latest thoughts about prevention and awareness. Provides an understanding of the origins and current status of drug use, including special situations addressed for a person who may be experiencing problems with substance abuse. Assessment, intervention, rehabilitation, and recovery are also introduced.

Wellness in Protective Services

10504144.....**3 credits** Introduces the skills and abilities needed to deal constructively with the stress related to a field in criminal justice. Focuses on assessing individual sources of stress, analyzing the impact of that stress, and developing stress-coping mechanisms. Learners will explore coping mechanisms such as assertion, anger management, conflict resolution, time management, relaxation activities, and exercise and diet planning.

Prerequisite: Admission to Criminal Justice-Studies program 105045 or Corrections & Community Advocacy program 105047



cosmetology

Technical Diploma Program Code: 31-502-1 Total Credits: 33

Combined with successful completion of the state licensing exam, Mid-State's Cosmetology program provides the theory and practice you need to build your cosmetology career. Students study hair cutting, perming/relaxing, and styling as well as facial and scalp treatments, barbering, makeup, pedicuring, manicuring, and more. The program emphasizes sanitation and safety. You'll learn from experienced instructors, guest lectures, demonstrations, industry representatives, and platform artists. Your practice will progress from working on mannequins to providing services in the on-campus salon. Many other hands-on opportunities are available, including job shadowing.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

	Financial Aid Form(s)
	Form(s):
_	

Follow-Up Appointment:

Where: _	
When:	
With:	

Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481



ADAMS CAMPUS 401 North Main Adams, WI 53910



MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449

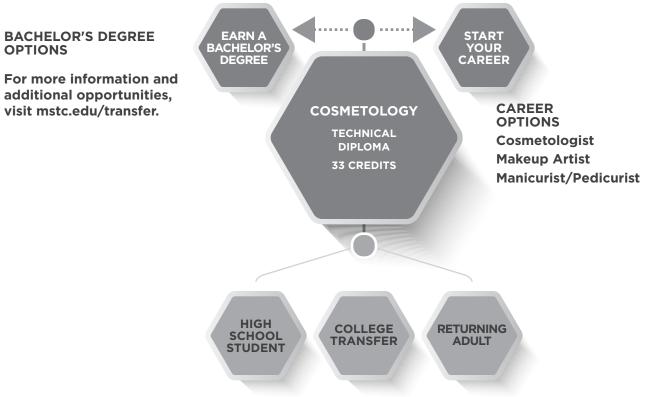


STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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[□] Other:_____

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

• Barber Technologist

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 hair cutting services.
- Perform shampoo services.
- Perform skin care services.
- Perform texture services.
- Perform hair color services.
- Demonstrate hair styling and finishing techniques.
- Perform nail services.
- Develop strategies to market products and services.

TECHNICAL SKILLS ATTAINMENT

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. Students will complete a mock board exam in the Capstone Experience course to fulfill the TSA requirement.

Most classes are offered in a face-to-face format. Theory of General Sciences 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. Financial aid and scholarships are available to those who qualify.

TECHNICAL STANDARDS

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

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 prerequistes.

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.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

31502335 31502336		14 credits 3 3 1 1 3 3
Term		13 credits
31502316	Theory of General Sciences	1
31502338	Salon Operations	1
31502342	Capstone Experience	3
31502343	Salon Client Relations	4
31502344	Salon Ecology & Industry Trends	4
Term		6 credits
31502349	Salon Communication & Manageme	nt 3
	Salon Sales & Marketing	3
	Total	credits 33

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 31502316 31502335 31502336 31502338	Theory of General Sciences Haircutting Chemical Texture Services Salon Operations	8 credits 1 3 3 1
Term 31502340 31502343 31502347	Salon Client Relations	8 credits 1 4 3
Term 31502334 31502344	Hairstyling Salon Ecology & Industry Trends	7 credits 3 4
Term 31502337 31502349 31502342		7 credits 1 nt 3 3
Term 31502350	Salon Sales & Marketing	3 credits 3
	Total	credits 33

course descriptions

Capstone Experience

31502342.....**3 credits** 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. *Corequisite: Admission to the Cosmetology program 315021 and consent of instructor*

Chemical Texture Services

31502336.....**3 credits** Includes the basics of safe and sanitary permanent waving and chemical hair relaxing. Includes history and product knowledge of these chemical services as well as advanced techniques and procedures that define current trends in the salon.

Prerequisite: Admission to Cosmetology program 315021

Facials

31502340.....**1 credit** Students learn the different types of skin and study structure and functions of the skin. Applies basic facial techniques. Students will study microdermabrasion, laser hair removal, and chemical peels. They also perform basic skin waxing techniques, removal of superfluous hair, makeup application, false eyelash application, and skin analysis. *Prerequisite: Admission to Cosmetology program 315021*

Haircolor

31502347**3 credits** Covers hair-color basics which include the law of color, the color wheel, and the theory behind these concepts. Students identify the chemicals used in hair color and discover the differences between temporary, semi/demi, and permanent color. Students mix and apply color while developing skills and building client consultation techniques. Studies application methods governed by the state board regulations. Also teaches the study of bleach theory and complete lightening applications, including foiling. Students experience advanced color formulations, color placement techniques, and color correction procedures. *Prerequisite: Admission to Cosmetology program 315021*

Haircutting

31502335**3 credits** 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 are also emphasized and practiced, including shaving, beards, mustaches, and side burns.

Prerequisite: Admission to Cosmetology program 315021

Hairstyling

31502334.....**3 credits** Emphasizes wet and dry hairstyling to include rollers, airforming, 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 will also be performed. *Prerequisite: Admission to Cosmetology program 315021*

Nail Technology

31502337.....1 credit Students achieve skills in manicuring, pedicuring, and nail enhancement services, including 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

Salon Client Relations

Salon Communication & Management

31502349.....**3 credits** This course focuses on salon communication and management. Students will concentrate on development of communication and management skills and proficiencies by providing a wide range of client services. Emphasizes client consultations, communication, proper business and management 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.

Corequisite: Salon Operations 31502338

Salon Ecology & Industry Trends

31502344......**4 credits** This course introduces current industry trends and salon ecology. Students will focus on infection control and the latest trends while continuing to develop their skills and proficiencies by providing a wide range of client-related services. Emphasizes client consultations, infection control, trends, proper business practices, professional attitudes, and refining techniques that will ensure entry-level preparedness for the Wisconsin licensing exam. Students complete this course by working in anon-campus beauty salon environment. In addition, students must complete 25 hours of on-the-job training (outside of the Mid-State salon and any other current employment location of the student) and secure approval from the course instructor. *Corequisite: Salon Operations 31502338*

Salon Operations

31502338**1 credit** Promotes student development of salon operation skills while providing a wide range of client-related services. Emphasizes daily operations of a salon, client consultations, proper business practices, professional attitudes, and refining techniques that ensure preparedness for the Wisconsin licensing exam.

Corequisites: Haircolor 31502347, Hairstyling 31502334, Haircutting 31502335, Chemical Texture Services 31502336, Nail Technology 31502337, and Facials 31502340

Salon Sales & Marketing

31502350.....**3 credits** This course focuses on salon sales and marketing techniques. Students will concentrate on development of skills and proficiencies by providing a wide range of client services. Emphasizes client consultations, salon sales and marketing techniques, 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. *Corequisite: Salon Operations 31502338*

Theory of General Sciences

31502316.....**1 credit** Covers several general science topics integral to the field of barbering/cosmetology, including 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*



criminal justice-law enforcement 720 academy

Technical Diploma Program Code: 30-504-2 **Total Credits: 22**

This program is specifically designed for students with a minimum of 60 college credits who seek to meet the certification requirements necessary to become a law enforcement officer in the state of Wisconsin. Students must meet the entrance requirements as set forth by the Wisconsin Department of Justice.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit mstc.edu/advising,

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where: _	
When:	

- With: Official Transcripts Mid-State Technical College Student Services Assistant 1001 Centerpoint Drive Stevens Point, WI 54481
- Other:



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ADAMS CAMPUS 401 North Main Adams, WI 53910



Marshfield, WI 54449

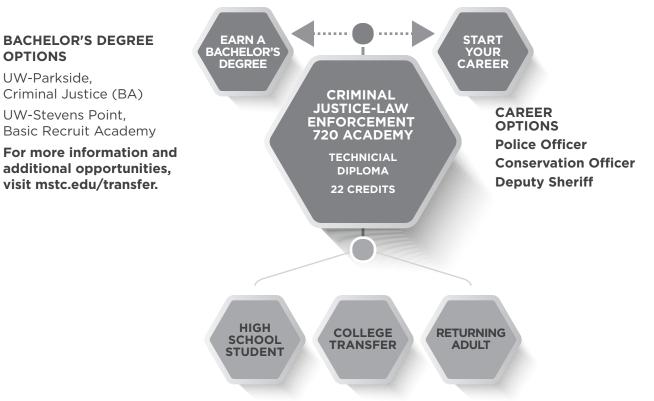


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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Corrections & Community Advocacy
- Criminal Justice-Studies
- Emergency Medical Technician
- Emergency Services Management
- EMT-Paramedic
- Fire Protection Technician
- Paramedic Technician

PROGRAM OUTCOMES

Employers will expect you, as a Criminal Justice-Law Enforcement 720 Academy graduate, to be able to:

- Think critically.
- Manage emergencies.
- Communicate effectively.
- Demonstrate professionalism.
- Conduct investigations.
- Interact with others.
- Demonstrate technical skills.

TECHNICAL SKILLS ATTAINMENT

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. Students will complete the TSA requirements through scenario testing at the end of the program.

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

ADDITIONAL ENTRY CRITERIA

To apply to the Criminal Justice-Law Enforcement 720 Academy program:

- The applicant shall have attained a minimum age of 18 years.
- The applicant shall possess a Wisconsin high school diploma or a diploma issued by an out-of-state high school accredited by an appropriate agency of the state or have a General Education Development (GED) Certificate or a High School Equivalency Diploma (HSED). In Wisconsin, high school diplomas are issued by public and private schools. A home-based private educational program does not lead to a traditional Wisconsin high school diploma. A student who is enrolled in a homebased private educational program must attain a GED or HSED to be eligible for preparatory law enforcement officer training.
- The applicant shall possess a valid Wisconsin driver's license or such other valid operator's permit recognized by the Wisconsin department of transportation as authorizing operation of a motor vehicle in Wisconsin.
- The applicant shall not have been convicted of any federal felony or of any offense that if committed in Wisconsin could be punished as a felony unless the applicant has been granted an absolute and unconditional pardon.
- The applicant shall not have been convicted of any misdemeanor crime of domestic violence unless the applicant has been granted an absolute and unconditional pardon.

- The applicant shall not be prohibited by federal or state law from possessing a firearm.
- The applicant shall be a United States citizen.
- The applicant shall possess either a two-year associate degree from a Wisconsin Technical College System district or its accredited equivalent from another state or a minimum of 60 accredited semester credits or 90 accredited quarter credits. An official college transcript from the educational institution where credit was awarded shall serve as evidence of an applicant having met the associate degree or college credit requirement. School accreditation can be checked at the US Department of Education website.
- A physical assessment shall be conducted to verify that the applicant can meet the physical standards required of a law enforcement officer. The assessment shall be conducted by a Wisconsin licensed physician who shall provide a signed written report on the results of the assessment to the training school.
- An oral interview shall be conducted with a panel of law enforcement executives or with teaching or counseling staff affiliated with the training school to determine the applicant's suitability for law enforcement officer employment and to assess the applicant's demeanor, background, and ability to communicate.
- Physical ability will be tested prior to entrance into a preparatory law enforcement officer training academy and again during Phase 3 of the academy. There are both entrance and exit standards for passing the Physical Readiness Test.

TECHNICAL STANDARDS

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-studies**. Contact the Disability Services coordinator in the Student Services & Information Center to receive assistance.

PROGRAM PROGRESSION

In order to 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 of courses.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

SAMPLE FULL-TIME CURRICULUM OPTION

NOTES:

Term	22 cre	edits
30504310	Overview of Criminal Justice	1
30504311	Overview of Investigations	2
30504312	Overview of Tactics	1
30504313	Overview of Patrol Response	2
30504315	Principles of Investigations	1
30504316	Principles of Tactics	5
30504317	Principles of Emergency Vehicle Response	2
30504319	Application of Traffic Response	3
30504320	Physical Fitness	1
30504321	Practical Assessments (scenarios)	1
30504322	Application of Investigations	1
30504323	Sensitive Crimes	2
	Total credit	ts 22

Application of Investigations

30504322**1 credit** Through classroom lecture, and on-campus lab, and WI Department of Justice 720 Academy integration exercises students will learn and apply skills addressed in the following Phase II topics of the Department of Justice 720 Academy curriculum framework: Ethics II: Moral Reasoning and Professional Responsibility, Cultural Competence II: Fair and Impartial Policing, Interrogations, Testifying in Court, and Crimes III.

Prerequisite: Admission to Criminal Justice-Law Enforcement 720 Academy program 305041 and must successfully complete the application process.

Application of Traffic Response

30504319.....3 credits Through classroom lecture, and on-campus lab and WI Department of Justice integration exercises, students will learn and apply skills addressed in the following Phase III topics from the WI Department of Justice 720 Academy curriculum framework: Traffic Law Enforcement - Core and Radar, Traffic Crash Investigations & Incident Management, Operating a Motor Vehicle While Intoxicated (OMVWI), Standardized Field Sobriety Tests (SFST), Hazardous Materials and Weapons of Mass Destruction (WMD), Incident Command Systems and NIMS, and Report Writing. *Prerequisite: Admission to Criminal Justice-Law Enforcement 720 Academy program 305041 and must successfully complete the application process*

Overview of Criminal Justice

30504310**1 credit** Through classroom lecture and Wisconsin Department of Justice 720 Academy integration exercises, students learn and apply skills addressed in the following Wisconsin Department of Justice 720 Academy Phase I curriculum framework topics: Academy Orientation, Fundamentals of Criminal Justice, Ethics, Cultural Competency, Agency Policy, and Professional Communication.

Prerequisite: Admission to Criminal Justice-Law Enforcement 720 Academy program 305042 and must successfully complete the application process

Overview of Investigations

30504311.....2 credits Through classroom lecture, on-campus lab, and WI Department of Justice 720 Academy integration exercises students will learn and apply skills addressed in the following Department of Justice 720 Academy curriculum framework Phase I topics: Constitutional Law I, Crimes I, Interviews, and Report Writing.

Prerequisite: Admission to Criminal Justice-Law Enforcement 720 Academy program 305041 and must successfully complete the application process

Overview of Patrol Response

30504313.....**2 credits** Through classroom lecture, on-campus lab, and Wisconsin Department of Justice integration exercises, students will learn and apply skills addressed in the following Wisconsin Department of Justice 720 Academy curriculum framework Phase I topics: Critical Thinking and Decision-Making, Basic Response (RESPOND), Radio Procedures, Introduction to TraCS, Traffic Law Enforcement, and First Aid/CPR/AED. *Prerequisite: Admission to Criminal Justice-Law Enforcement 720 Academy program 305042 and must successfully complete the application process*

Overview of Tactics

30504312.....**1 credit** Through classroom lecture, on-campus lab, and Wisconsin Department of Justice 720 Academy integration exercises, students learn and apply skills addressed in the following Department of Justice 720 Academy curriculum framework Phase I topics: Fundamentals of Firearms, Vehicle Contacts I, Officer Wellness, and Defensive and Arrest Tactics. *Prerequisite: Admission to Criminal Justice-Law Enforcement 720 Academy program 305041 and must successfully complete the application process*

Physical Fitness

30504320.....1 credit Through classroom lecture and on-campus lab students will apply Phases I-III Health Fitness WI Department of Justice 720 Academy curriculum framework program requirements and Officer Wellness Suicide Prevention.

Prerequisite: Admission to Criminal Justice-Law Enforcement 720 Academy program 305041 and must successfully complete the application process

Practical Assessments (scenarios)

30504321.....1 credit Through classroom lecture the scenario week is divided into two components: training and testing. The goal of the training component is to further develop and consolidate students' skills and abilities to perform in realistic law enforcement situations. The goal of the testing component is to assess whether students' performance in realistic law enforcement situations meets established criteria. The scenario training component is not graded. The scenario testing component is graded and students must earn a passing grade to successfully complete preparatory law enforcement training and on-campus lab students will apply Phases I-III Health Fitness WI Department of Justice 720 Academy curriculum framework program requirements. Admission to Criminal Justice-Law Enforcement Academy program 305041 and must successfully complete the application process.

Principles of Emergency Vehicle Response

30504317.....**2 credits** Through classroom lecture, on-campus lab, and Wisconsin Department of Justice 720 Academy integration exercises, students learn and apply skills addressed in the following Department of Justice 720 Academy Phase II topics: Emergency Vehicle Operation and Control (EVOC) and Vehicle Contacts II.

Prerequisite: Admission to Criminal Justice-Law Enforcement 720 Academy program 305041 and must successfully complete the application process

Principles of Investigations

30504315.....**1 credit** Through classroom lecture, and on-campus lab, and WI Department of Justice 720 Academy integration exercises students will learn and apply skills addressed in the following Phase II topics of the WI Department of Justice 720 Academy curriculum framework: Constitutional Law II, Physical Evidence Collections, and Crisis Management. The Phase II Written Exam will be given in this course. *Prerequisite: Admission to Criminal Justice-Law Enforcement 720 Academy program 305041 and must successfully complete the application process*

Principles of Tactics

30504316.....**5 credits** Through classroom lecture and on-campus lab and integration exercises, students will learn and apply skills addressed in the following Phase II topics from the Department of Justice 720 Academy curriculum frameworks including: Professional Communication Skills II, DAAT, Firearms II, Tactical Response, and a Tactical Emergency Casualty Care.

Prerequisite: Admission to Criminal Justice-Law Enforcement 720 Academy program 305041 and must successfully complete the application process

Sensitive Crimes

30504323.....**2 credits** Through classroom lecture, and on-campus lab and WI Department of Justice 720 Academy integration exercises, students will learn and apply skills addressed in the following Department of Justice 720 Academy curriculum framework Phase III topics: Domestics, Juvenile Law, Victims, Sexual Assault, and Child Maltreatment. The DOJ Phase III Written Examination will be administered in this course. *Prerequisite: Admission to Criminal Justice-Law Enforcement 720 Academy program 305041 and must successfully complete the application process*



criminal justice-studies

Associate in Applied Science (AAS) Program Code: 10-504-5 Total Credits: 60

The Criminal Justice-Studies program prepares students to meet the challenges that come with a variety of positions in the criminal justice field. Graduates interested in pursuing a career as a law enforcement officer are prepared for entry into the 720-hour certification training required for law enforcement certifiable status by the Wisconsin Department of Justice. Graduates who do not seek sworn law enforcement positions may use their skills in civilian law enforcement positions, such as record and documentation maintenance, dispatch or communications center operations, or secure correctional facility operations. This program is designed to help secure employment, keep students abreast of rapidly changing advancements, and encourage further education. Experienced instructors emphasize professionalism, integrity, and quality work performance, with a significant focus on high ethical and moral standards.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

When:

With:____

Official Transcripts

Mid-State Technical College

Student Services Assistant

1001 Centerpoint Drive

Stevens Point, WI 54481

Criminal Background Statement of Understanding and Release of Information Form

□ Other:_

mstc.edu 888.575.6782

> ADAMS CAMPUS 401 North Main Adams, WI 53910



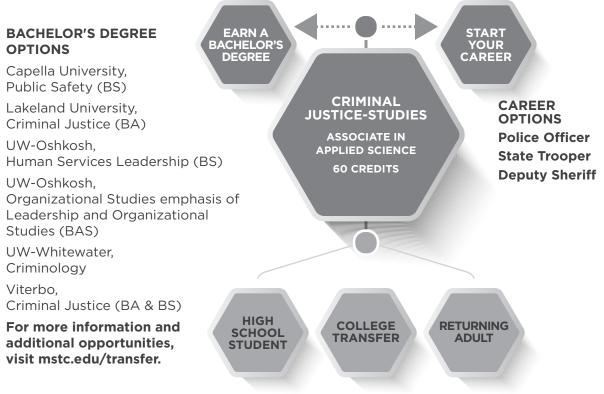
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Corrections & Community Advocacy
- Criminal Justice-Law Enforcement 720 Academy
- Emergency Medical Technician
- Emergency Services Management
- EMT-Paramedic
- Fire Protection Technician
- Paramedic Technician

PROGRAM OUTCOMES

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

- Examine the components of and interrelationships in the criminal justice system.
- Analyze situational responses.
- Apply communication skills as a criminal justice professional.
- Conduct investigations.
- Adhere to the professional code of ethics for a criminal justice practitioner.
- Maintain personal wellness.

TECHNICAL SKILLS ATTAINMENT

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. Students will be assessed on TSA outcomes during their Criminal Investigation and Wellness in Protective Services courses.

Upon graduation from the Criminal Justice-Studies program, you may be eligible to enter the Criminal Justice-Law Enforcement 720 Academy (30-504-2). Successful completion of the Criminal Justice-Law Enforcement 720 Academy provides the education and hands-on training required by the Wisconsin Law Enforcement Standards Board to become certifiable as a law enforcement officer. Entrance and exit physical fitness readiness standards as established by the Wisconsin Department of Justice must be met in order to participate in and complete the Criminal Justice-Law Enforcement 720 Academy.

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

TECHNICAL STANDARDS

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-studies**. Contact the Disability Services coordinator in the Student Services & Information Center to receive assistance.

PROGRAM PROGRESSION

In order to successfully complete the program, students must earn a grade of "C" or better in all program and general education courses required for graduation. Please note that the ability to repeat courses is dependent upon availability of courses.

STUDENT HANDBOOK

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GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

15	credits
Court Procedures	3
Introduction to Law Enforcement	3
Corrections/Correctional Institutions	3
English Composition 1	3
Developmental Psychology -or-	3
Intro to Psychology	3
15	credits
Community Policing	3
Report Writing for Protective Services	3
Constitutional Law for LE	3
Criminal Justice Ethics	3
Oral/Interpersonal Communication -or	3
Speech	3
15 Fitness for Law Enforcement Contemporary Issues in Law Enforcement Patrol Procedures Criminal Law for LE Criminal Justice Internship -or- Criminal Justice Applications College Mathematics	credits 1 ent 3 3 3 2 3
15	credits
Criminal Investigation	3
Intro to Law Enforcement Organization	3
and Leadership	3
Wellness in Protective Services	3
Intro to American Government -or-	3
Intro to Sociology	3
Introduction to Diversity Studies	3
	Court Procedures Introduction to Law Enforcement Corrections/Correctional Institutions English Composition 1 Developmental Psychology -or- Intro to Psychology 15 Community Policing Report Writing for Protective Services Constitutional Law for LE Criminal Justice Ethics Oral/Interpersonal Communication -or Speech 15 Fitness for Law Enforcement Contemporary Issues in Law Enforcem Patrol Procedures Criminal Law for LE Criminal Justice Internship -or- Criminal Justice Applications College Mathematics 15 Criminal Investigation Intro to Law Enforcement Organization and Leadership Wellness in Protective Services Intro to American Government -or- Intro to Sociology

SAMPLE PART-TIME CURRICULUM OPTION

Term 10504112 10504114 10801136	Court Procedures Introduction to Law Enforcement English Composition 1	9 credits 3 3 3 3
Term 10504140 10504166 10801196 10801198	Report Writing for Protective Service Criminal Justice Ethics Oral/Interpersonal Communication - Speech	3
Term 10504176 10804107 10809188 10809198	Corrections/Correctional Institutions College Mathematics Developmental Psychology -or- Intro to Psychology	9 credits 3 3 3
Term 10504129 10504103 10504163	Community Policing Fitness for Law Enforcement Constitutional Law for LE	7 credits 3 1 3
Term 10504115 10504125 10504164	Contemporary Issues in Law Enforce Patrol Procedures Criminal Law for LE	9 credits ement 3 3 3
Term 10504134 10809122 10809196 10809172	Intro to Law Enforcement Organizat and Leadership Intro to American Government -or- Intro to Sociology Introduction to Diversity Studies	9 credits ions 3 3 3
Term 10504123 10504144 10504195 10504196	Criminal Investigation Wellness in Protective Services Criminal Justice Internship -or- Criminal Justice Applications	8 credits 3 3 2
	Total o	credits 60

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Community Policing

10504129.....**3 credits** Learners will analyze key components of Community Policing including community partnerships, organizational transformation and problem solving. They will examine the role of the patrol officer in relation to community-oriented and problem-oriented policing. Learners will identify community-oriented needs and work directly in the field with community partners to develop a plan for implementation. *Prerequisites: Admission to Criminal Justice-Studies program 105045, Court Procedures 10504112, and Introduction to Law Enforcement 10504114*

Constitutional Law for LE

10504163.....**3 credits** Learners will explore constitutional law as it relates to the legal basis of the action and limits of law enforcement regarding topics such as arrest, use of force, and search and seizure. Learners will examine the requirements under Wisconsin law guiding law enforcement agency policy and procedures. *Prerequisite: Admission to Criminal Justice-Studies program 105045, Court Procedures 10504112, and Introduction to Law Enforcement 10504114*

Contemporary Issues in Law Enforcement 105041153 credits

Studies current police issues related to law enforcement and community attitudes. The course builds a strong basis for the discussion of ethical decision making and the need for a professional mindset. A component to this class focuses on community involvement. Students will identify community organizations in need of volunteers and complete 20 hours of service with those organizations.

Prerequisites: Admission to Criminal Justice-Studies program 105045 and Intro to Law Enforcement 10504114

Corrections/Correctional Institutions

10504176.....3 credits 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. *Prerequisite: Admission to Criminal Justice-Studies program 105045 or Corrections & Community Advocacy program 105047. Corequisite: English Composition 1 10801136.*

Court Procedures

10504112.....**3 credits** Learners examine the court system to include how the system has evolved, the theories that developed our legal system, and how the law is truly applied in court. A main focus is dissecting each stage of a criminal case from the initial arrest through the final appeal. The roles and authority of law enforcement, prosecutors, defense attorneys, and judges are explored.

Prerequisite: Admission to Criminal Justice-Studies program 105045 or Corrections & Community Advocacy program 105047. Corequisite: English Composition 1 10801136

Criminal Investigation

10504123.....3 credits This course covers crime scene investigation and criminalistics, and the laws that govern them. Learners will focus on how a crime scene should be investigated, searched and processed for evidence. Learners will search crime scenes, collect and preserve physical evidence and interview victims and witnesses.

Prerequisites: Admission to Criminal Justice-Studies program 105045 and Introduction to Law Enforcement 10504114 and Court Procedures 10504112

Criminal Justice Applications

10504196.....**3 credits** This course will offer students who don't wish to do an internship an opportunity to meet and complete many of the same objectives. Learners will explore different aspects of the law enforcement career and work on job skills such as resumes, cover letters and interviews.

Prerequisites: Admission to Criminal Justice-Studies program 105045, Intro to Law Enforcement 10504114, Court Procedures 10504112, and Constitutional Law for LE 10504163

Criminal Justice Ethics

10504166**3 credits** Introduces learners to ethical duties and decision making dilemmas facing criminal justice professionals. Provides the basic foundations of ethical reasoning and the standards for determining sound ethical decision making. Increases the learner's application of ethical reasoning in the face of agency corruption, use of force, gender and race discrimination, due process, and duty towards others. *Prerequisite: Admission to Criminal Justice-Studies program 105045*

Criminal Justice Internship

105041952 credits The internship offers learners an excellent opportunity to experience first-hand, the wide variety of duties and responsibilities of criminal justice professionals in the field. Students interested in an internship with an agency will fill out an application and go through an interview process. Selected applicants will be placed with an agency to complete the 72 hours of their internship. There is an additional 18 hours of in class lecture. NOTE: Students completing an off-site internship must complete a Criminal Background Check. Host agencies criteria for acceptance as an intern may impact a student's ability to participate in this course.

Criminal Law for LE

10504164.....**3 credits** Learners will identify concepts specific to criminal law to include the purpose, scope, and sources of law. Students will analyze Wisconsin State Statutes to learn about Wisconsin's crimes against people, property, and other forms of criminal behavior. Learners will study how the criminal code is enforced with regard to juveniles in Wisconsin. *Prerequisites: Admission to Criminal Justice-Studies program 105045, Introduction to Law Enforcement 10504114, and Court Procedures 10504112.*

Developmental Psychology

10809188.....**3 credits** Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Fitness for Law Enforcement

10504103**3 credits** This course is designed to get students prepared for the physical fitness demands of law enforcement. Learners will identify healthy habits and explore ways to make fitness a part of their daily lives to build the foundation for a healthy career. Learners will be prepared to meet the physical entrance standards for the DOJ recruit academy. *Prerequisites: Admission to Criminal Justice-Studies program 105045, Intro to Law Enforcement 10504114, and Court Procedures 10504112.*

Intro to American Government

10809122.....3 credits 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Law Enforcement Organizations and Leadership

10504134.....**3 credits** Learners will examine effective leadership strategies to include concepts on transformational leadership, collaborative leadership, and organizational leadership. Students will identify areas that they can immediately develop regarding their leadership skills and learn how to apply those skills in the future.

Prerequisite: Admission to Criminal Justice-Studies program 105045.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Sociology

10809196.....**3 credits** Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

course descriptions

Introduction to Diversity Studies

10809172......3 credits

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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Law Enforcement

10504114.....**3 credits** Explores who the police are, what they do and how they do it. The course provides a general overview of policing in our society so that learners can understand why and how policing is performed. Addresses jobs available in policing, how to get them, what skills you will need and what you will do when you get those jobs. Learners will get a clear look at policing to help them determine if this career is for them. *Prerequisite: Admission to Criminal Justice-Studies program 105045 or Corrections & Community Advocacy program 105047; Corequisite: English Composition 1 10801136*

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Patrol Procedures

10504125.....3 credits Learners are introduced to effective patrol techniques related to the use of law enforcement electronic equipment, traffic enforcement, and patrol-related techniques. Learners will utilize a mixture of classroom and realistic training exercises while using equipment that is consistent with what actual law enforcement officers use in the field. *Prerequisites: Admission to Criminal Justice-Studies program 105045 and Intro to Law Enforcement 10504114*

Report Writing for Protective Services

10504140.....**3 credits** Introduces the knowledge necessary to write a variety of law enforcement reports to convey necessary information that is clear, concise, complete and accurate. Learners will participate in scenarios and role playing which will culminate with them completing a police report. *Prerequisite: Admission to Criminal Justice-Studies program 105045 and English Composition 10801136*

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Wellness in Protective Services

105041443 credits Introduces the skills and abilities needed to deal

constructively with the stress related to deal justice. Learners will identify their sources of stress, their early warning signs and healthy coping styles. Course also focuses on time management, relaxation activities along with exercise and diet planning.

Prerequisite: Admission to Criminal Justice-Studies program 105045 or Corrections & Community Advocacy program 105047



customer relationship professional

Technical Diploma Program Code: 30-106-8 Total Credits: 12 credits

The only program of its kind in the Wisconsin Technical College System, Mid-State's Customer Relationship Professional program develops students into important members of a call center or customer service team. The program focuses on communicating with customers to help them navigate past challenges to fulfill their needs, emphasizing active listening, effective verbal communication, and customer service skills. Through hands-on projects, you will learn telephone etiquette, how to respond appropriately to customers, and how to perform quick problem-solving analysis while exceeding customer expectations.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial A	vid Form(s)	
Form(s): _		

Follow-Up Appointment:

Where:	
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481



ADAMS CAMPUS 401 North Main Adams, WI 53910



MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449

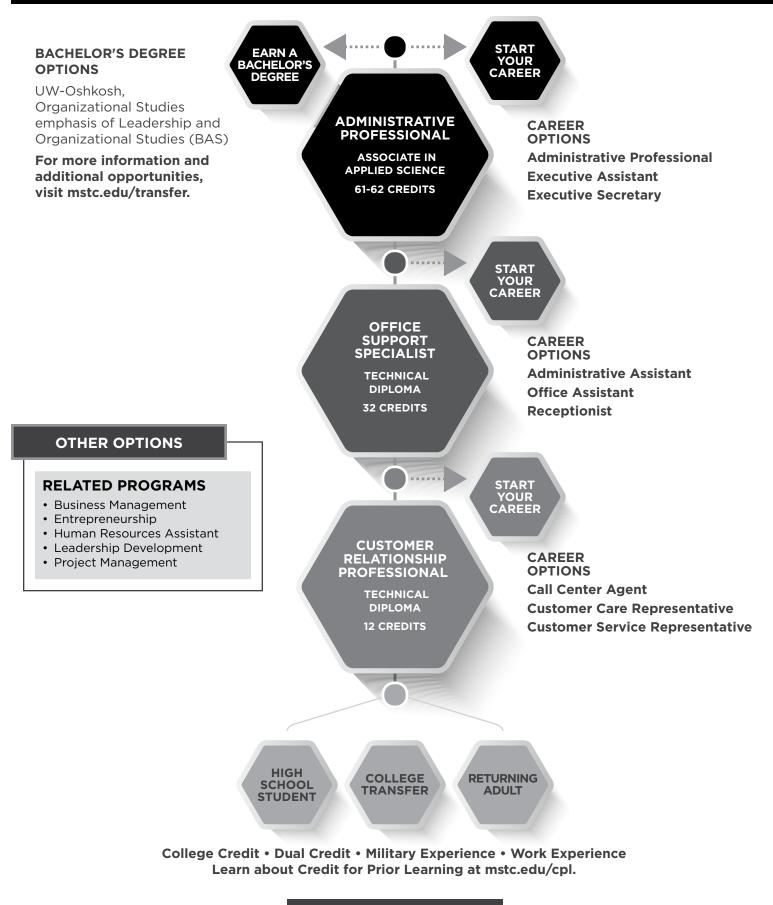


STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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Other:_____

career pathway



BEGIN AT ANY POINT IN THE PATHWAY

PROGRAM OUTCOMES

Employers will expect you, as a Customer Relationship Professional graduate, to be able to:

- Demonstrate effective workplace communications.
- · Model professionalism in the workplace.
- Maintain internal and external relationships.

TECHNICAL SKILLS ATTAINMENT

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. Customer Relationship Professional program outcomes are measured in the TSA-designated course Quality Customer Service.

NOTES:

STUDENT HANDBOOK

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ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

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Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term		12 credits
10103106	Microsoft Office-Introduction*	3
10106106	Quality Customer Service*	3
10801136	English Composition 1*	3
10809172	Introduction to Diversity Studies*	3

Total credits 12

* This course may also be offered in a different term including during winterim or summer terms, with 3-week, 8-week, or 16-week sessions available. A variety of modalities and class lengths may be available, including online, hybrid, TelePresence, or face to face.

Please Note:

- This program can be completed entirely online.
- Students complete a full-time course load over a 16-week term. This term may include a combination of classes taken in an 8-week session and classes taken over the full 16-week term.
- 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. For details, go to mstc.edu/classfinder.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10103106 10809172	Microsoft Office-Introduction* Introduction to Diversity Studies*	6 credits 3 3
Term 10106106 10801136	Quality Customer Service* English Composition 1*	6 credits 3 3
	Tota	l credits 12

course descriptions

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Introduction to Diversity Studies

10809172.....3 credits 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Microsoft Office-Introduction

10103106.....**3 credits** Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, PowerPoint, and Outlook) while reinforcing the students' knowledge of computer concepts, Windows Explorer, and web usage. Students should possess basic keyboarding, mouse and Windows 10 skills. Students may develop these skills in the LiNK while concurrently enrolled in this course.

Quality Customer Service

10106106.....**3 credits** Addresses sensitivity in communicating with customers and co-workers. Includes international communications, teamwork, working relationships, and telephone skills.



diesel & heavy equipment technician

Technical Diploma Program Code: 32-412-1 Total Credits: 63

Graduates of Mid-State's Diesel & Heavy Equipment Technician program have the knowledge and skills to confidently locate and repair mechanical and electrical problems in trucks, buses, construction equipment, farm equipment, and industrial machinery. Through hands-on classroom learning and training on state-of-the-art equipment, you will learn to perform preventive maintenance and troubleshooting procedures, rebuild components, and respond to field service calls. You'll also participate in field trips, tours, and equipment demonstrations, and you'll get real-world experience by maintaining Mid-State's vehicle fleet and operating onsite equipment.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):
Follow-Up Appointment:

Follow-Up Appointment:

Where:

When:



ADAMS CAMPUS 401 North Main Adams, WI 53910



MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449

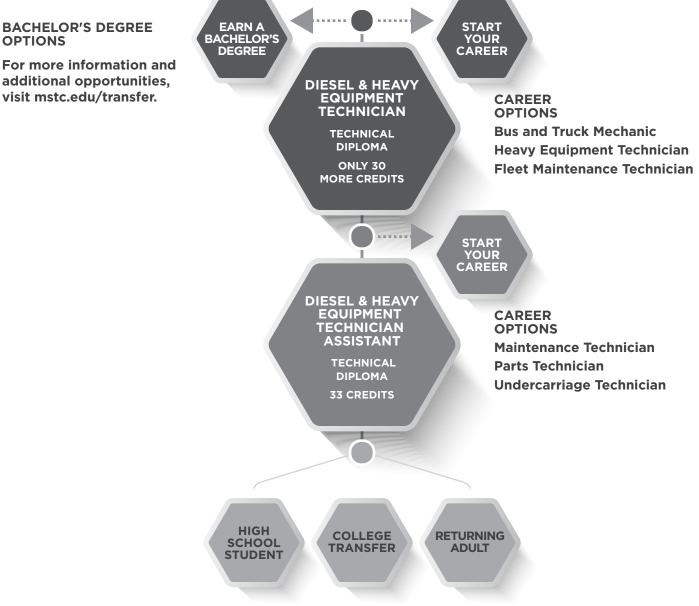


STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

Other:______

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Automotive Maintenance Technician
- Automotive Technician

PROGRAM OUTCOMES

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

- Diagnose major systems in the diesel and heavy equipment industry.
- Repair major systems in the diesel and heavy equipment industry.
- Service major systems in the diesel and heavy equipment industry.
- Practice personal and professional work habits.
- Document complaint, cause, and correction.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

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.

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term		16 credits
10442117	Welding Fundamentals 1	1
10442118	Welding Fundamentals 2	1
10457119	Fabrication Fundamentals 1	1
10457120	Fabrication Fundamentals 2	1
32412375 32412340	Service Practices in Diesel Industry Intro to Electricity for the Diesel Ind	
32412340	Braking Systems-Diesel	5
32412309	Suspension & Steering Systems	5
_		
Term	Carran Davidan manta an	17 credits
10102130 10801199	Career Development -or- Employment Strategies	3
10462121	Mobile Hydraulics Repair	
32412305	Preventive Maintenance-Diesel	3 3 4
32412312	Drivetrains	4
32412313	Electrical Systems	4
Term		16 credits
10804107	College Mathematics	
32412303	Heating/AC-Diesel	3 3 5 5
32412324	Engine Repair	5
32412327	Fuel Systems & Alternative Fuels	5
Term		14 credits
32412310	Engine Performance & Emissions-Di	
32412311	Advanced Electricity-Diesel	5
32412330	Capstone-Live Diesel Repair	2
32806351	Applied Science	2
	Total	credits 63

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. For details, go to **mstc.edu/classfinder**.

NOTES:

SAMPLE PART-TIME CURRICULUM OPTION

Term 32412308 32412309 32412340	11 credits Braking Systems-Diesel5Suspension & Steering Systems5Intro to Electricity for the Diesel Industry1
Term 32412305 32412313 32412324	Preventive Maintenance-Diesel3Electrical Systems4Engine Repair5
Term 10804107 10442117 10442118 10457119 10457120 32412375	8 creditsCollege Mathematics3Welding Fundamentals 11Welding Fundamentals 21Fabrication Fundamentals 11Fabrication Fundamentals 21Service Practices in Diesel Industry1
Term 10102130 10801199 32412303 32412312 32806351	12 creditsCareer Development -or-Employment StrategiesHeating/AC-DieselJDrivetrains4Applied Science2
Term 10462121 32412327	8 creditsMobile Hydraulics Repair3Fuel Systems & Alternative Fuels5
Term 32412310 32412311 32412330	12 credits Engine Performance & Emissions-Diesel5Advanced Electricity-Diesel5Capstone-Live Diesel Repair2
	Total credits 63

Advanced Electricity-Diesel

324123115 credits

Learner receives advanced training in the theory, operating principles, and diagnosis and repair of vehicle electronic/ electrical systems. Emphasis on diagnosis and repair of vehicle ignition, starting, charging, lighting, and electronic powertrain systems as related to the transportation, agriculture, and heavy equipment industry.

Prerequisites: Admission to Diesel & Heavy Equipment Technician program 324121, Engine Repair 32412324, and Fuel Systems & Alternative Fuels 32412327

Applied Science

32806351.....**2 credits** This survey course in basic physics is designed for students in the Automotive Technician, Diesel & Heavy Equipment Technician, and Machine Tool Technician programs. Topics have been 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 with a grade of* "C" or better.

Braking Systems-Diesel

32412308.....**5 credits** Learners employ fundamentals of vehicle braking systems, including drum, disc, hydraulic, and air systems to perform on vehicle diagnosis and repairs. Includes power and anti-skid systems, with emphasis on troubleshooting and component replacement.

Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121 or Diesel & Heavy Equipment Technician Assistant program 314122

Capstone-Live Diesel Repair

324123302 credits Learners have the opportunity to work on "live" diagnostic and repair projects and have their knowledge and skills assessed across a wide spectrum of projects provided by business and industry. Work orders, troubleshooting, parts ordering, installation, and quality checks are all elements included to provide real-life experiences as students prepare to begin their diesel and heavy equipment career. *Prerequisites: Engine Repair 32412324 and Fuel Systems & Alternative Fuels 32412327; Corequisites: Engine Performance & Emissions-Diesel 32412310 and Advanced Electricity-Diesel 32412311*

Career Development

10102130.....**3 credits** Prepares 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, and 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Drivetrains

32412312 4 credits Learners practice on-vehicle diagnosis and repair of clutches, manual transmissions, drive shafts and universal joints, and drive axles. Provides general overview of the most common transmissions and drive train components used in industry. The diagnostic and service procedures studied apply to the truck, construction, and heavy equipment industries.

Prerequisites: Admission to Diesel & Heavy Equipment Technician program 324121 or Diesel and Heavy Equipment Technician Assistant program 314122, Suspension & Steering Systems 32412309, and Braking Systems-Diesel 32412308

Electrical Systems

Prerequisites: Admission to Diesel & Heavy Equipment Technician program 324121 or Diesel & Heavy Equipment Technician Assistant program 314122 and Intro to Electricity for the Diesel Industry 32412340

Employment Strategies

10801199.....**3 credits** 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

Engine Performance & Emissions-Diesel 324123105 credits

Learners employ principles of construction, function, and operation of ignition systems, fuel systems, air induction systems, exhaust systems, emission control systems. Emphasizes the proper diagnosis, repair, and tune-up of system components as related to the transportation, agriculture, and heavy equipment industry. *Prerequisites: Admission to Diesel and Heavy Equipment Technician program 324121, Engine Repair 32412324, and Fuel Systems & Alternative Fuels 32412327*

Engine Repair 32412324

32412324.....**5 credits** Learners disassemble, measure, and inspect all mechanical components of a diesel engine. This course emphasizes the diagnosis and repair of cylinder heads, valve train, cylinder Components, engine blocks, and related hardware. Also covers engine support systems, such as lubrication and cooling.

Prerequisites: Admission to Diesel & Heavy Equipment Technician program 324121 and Preventive Maintenance-Diesel

Fabrication Fundamentals 1

10457119.....1 credit An introduction to structural shapes and sheet metal fabrication. Presents fabrication techniques, metal selection, and layout, cutting, bending, drilling, threading, and joining using manual equipment and techniques. Information is presented to the student and followed up with lab activities to provide a hands-on experience. Emphasizes developing an understanding of the tools, techniques, safe work habits, and application of sheet metal fabrication skills.

Fabrication Fundamentals 2

10457120.....1 credit An introduction to plate steel and heavy fabrication. Presents fabrication techniques using heavy fabrication equipment. CNC Cutting, Plate and Tube bending, Sawing and Shearing equipment will be presented and followed up with lab activities to provide a hands-on experience. Emphasizes developing an understanding of the equipment, techniques, safe work habits, and application of heavy metal fabrication skills.

Fuel Systems & Alternative Fuels

32412327.....5 credits

Learners employ principles of construction, function, and operation of low pressure fuel systems, governors, mechanical distributor pumps, multiple plunger pumps, electronic unit injectors, hydraulic actuated electronic unit injectors , and common rail fuel systems. This course emphasizes diagnosis and repair of mechanical, hydraulic, and common rail fuel systems.

Prerequisites: Admission to Diesel & Heavy Equipment Technician program 324121; Preventive Maintenance-Diesel 32412305

Heating/AC-Diesel

32412303.....**3 credits** Introduces the learner to the theory and operation of the heating and air conditioning systems found in transportation, farm, and heavy equipment industries. Focuses on the inspection, diagnoses, and repair of heating and air conditioning systems found in the diesel field. Learners have the opportunity to acquire their EPA 608 and 609 Certification. Offers experience in installation, operation, and repair of auxiliary power units along with refrigeration units.

Prerequisites: Admission to Diesel & Heavy Equipment Technician program 324121 and completion of Diesel & Heavy Equipment Technician Assistant program 314122

Intro to Electricity for the Diesel Industry

32412340.....**1 credit** Introduces learners to electrical measurement tools and techniques. Includes both hands-on experience and theory on topics including multimeter operation, Ohm's law, wiring diagram interpretation, and circuit testing. Content is focused on tools and procedures commonly used in automotive, and diesel/heavy equipment industries. Learners will have the opportunity to earn NC3 multimeter certification during this course.

Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121 or Diesel & Heavy Equipment Technician Assistant program 314122

Mobile Hydraulics Repair

10462121.....**3 credits** Learners employ basic principles and application of pumps, compressors, motors, valves, actuators, and conductors to demonstrate the understanding of hydraulic systems as well as the physical properties of liquids. Learners will identify various parts of a circuit in order to perform light maintenance and troubleshooting in hydraulic systems used on heavy truck, earth-moving, or agricultural equipment. *Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121 or Diesel & Heavy Equipment Technician Assistant program 314122*

Preventive Maintenance-Diesel

324123053 credits Introduces learner to vehicle preventive maintenance and inspection. Focuses on maintaining and inspecting the engine system, cab, electrical and electronics, and frame and chassis components with an emphasis on DOT inspections. Learners practice proper service on vehicle systems and perform a visual inspection of all vehicle components. Learners also practice how to properly document all maintenance and inspection findings.

Prerequisites: Admission to Diesel & Heavy Equipment Technician program 324121 or Diesel & Heavy Equipment Technician Assistant program 314122 and Suspension & Steering Systems 32412309; Braking Systems-Diesel 32412308

Service Practices in Diesel Industry

32412375......1 credit Introduces the learner to common tools, terminology, and service practices in the transportation field. Covers safety, environmental concerns, and basic customer relations. Service shop management practices and the use of automated work order, parts ordering, and time management concepts are included.

Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121 or Diesel & Heavy Equipment Technician Assistant program 314122

Suspension & Steering Systems

324123095 credits Analyze the construction and working principles of chassis components to perform on vehicle repairs. Includes instruction on frames, suspension systems, steering gears and linkages, wheels and tires, and wheel alignment. Learners practice on-vehicle diagnosis and repair of suspension and steering systems.

Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121 or Diesel & Heavy Equipment Technician Assistant program 314122

Welding Fundamentals 1

104421171 credit An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of SMAW, GMAW, and OXY-Fuel cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.

Welding Fundamentals 2

104421181 credit An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of GTAW, FCAW and Plasma cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.



diesel & heavy equipment technician assistant

Technical Diploma Program Code: 31-412-2 Total Credits: 33

Mid-State's Diesel & Heavy Equipment Technician Assistant program provides students with the knowledge and technical skills needed to perform basic maintenance and light repairs in the following areas: brakes, suspension and steering, drive train, tire service, basic electricity, and preventive maintenance inspection. This one-year option is ideal for students looking to work in a fleet environment. Through hands-on classroom learning and training on state-of-the-art equipment, you will learn to perform preventive maintenance, inspection, and light repairs. You'll also participate in field trips, tours, and equipment demonstrations, and you'll get real-world experience by maintaining Mid-State's vehicle fleet and operating onsite equipment.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where	e:
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481
 Other:

Other:			



ADAMS CAMPUS 401 North Main Adams, WI 53910



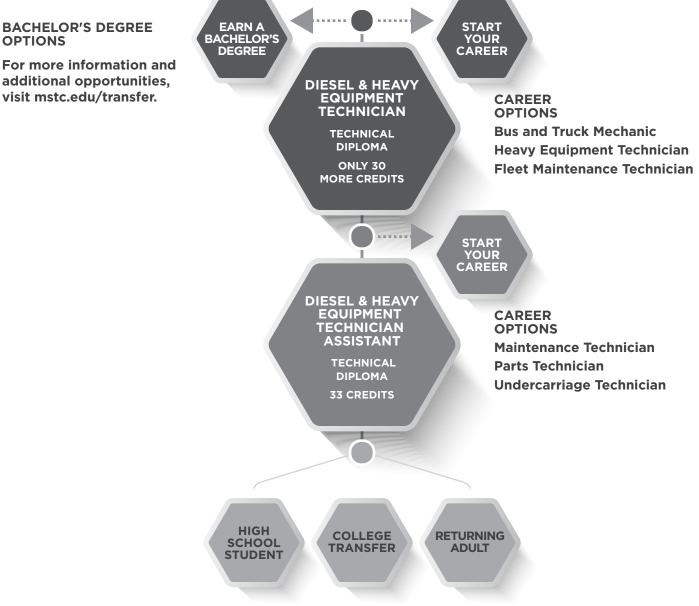
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Automotive Maintenance Technician
- Automotive Technician

PROGRAM OUTCOMES

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

- Practice personal and professional work habits.
- Perform basic maintenance for the diesel and heavy equipment industry.
- Perform light repairs for the diesel and heavy equipment industry.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

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.

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

16 credits
ng Fundamentals 1 1
ng Fundamentals 2 1
ation Fundamentals 1 1
ation Fundamentals 2 1
e Practices in Diesel Industry 1
o Electricity for the Diesel Industry 1
g Systems-Diesel 5
nsion & Steering Systems 5
17 credits
e Hydraulics Repair 3
yment Strategies 3
ntive Maintenance-Diesel 3
rains 4
cal Systems 4
Total credits 33

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10442117 10442118 10457119 10457120 32412340 32412308	Welding Fundamentals 1 Welding Fundamentals 2 Fabrication Fundamentals 1 Fabrication Fundamentals 2 Intro to Electricity for the Diesel Ind Braking Systems-Diesel	10 credits 1 1 1 lustry 1 5
Term 32412375 32412309	Service Practices in Diesel Industry Suspension & Steering Systems	6 credits 1 5
Term 10462121 10801199 32412305	Mobile Hydraulics Repair Employment Strategies Preventive Maintenance-Diesel	9 credits 3 3 3
Term 32412312 32412313	Drivetrains Electrical Systems	8 credits 4 4
	Total	credits 33

course descriptions

Braking Systems-Diesel

32412308.....**5 credits** Learners employ fundamentals of vehicle braking systems, including drum, disc, hydraulic, and air systems to perform on vehicle diagnosis and repairs. Includes power and anti-skid systems, with emphasis on troubleshooting and component replacement.

Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121 or Diesel & Heavy Equipment Technician Assistant program 314122

Drivetrains

32412312 4 credits Learners practice on-vehicle diagnosis and repair of

Learners practice on-vehicle diagnosis and repair of clutches, manual transmissions, drive shafts and universal joints, and drive axles. Provides general overview of the most common transmissions and drive train components used in industry. The diagnostic and service procedures studied apply to the truck, construction, and heavy equipment industries.

Prerequisites: Admission to Diesel & Heavy Equipment Technician program 324121 or Diesel and Heavy Equipment Technician Assistant program 314122, Suspension & Steering Systems 32412309, and Braking Systems-Diesel 32412308

Electrical Systems

32412313 4 credits Learners employ principles of construction, function, and operation of batteries, starting systems, charging systems, and controls. Incorporates basic electronics, including series and parallel circuits, magnetism and Ohm's Law, wiring schematics, soldering techniques, and use of diagnostic equipment.

Prerequisites: Admission to Diesel & Heavy Equipment Technician program 324121 or Diesel & Heavy Equipment Technician Assistant program 314122 and Intro to Electricity for the Diesel Industry 32412340

Employment Strategies

10801199.....**3 credits** 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

Fabrication Fundamentals 1

10457119.....1 credit An introduction to structural shapes and sheet metal fabrication. Presents fabrication techniques, metal selection, and layout, cutting, bending, drilling, threading, and joining using manual equipment and techniques. Information is presented to the student and followed up with lab activities to provide a hands-on experience. Emphasizes developing an understanding of the tools, techniques, safe work habits, and application of sheet metal fabrication skills.

Fabrication Fundamentals 2

10457120.....1 credit An introduction to plate steel and heavy fabrication. Presents fabrication techniques using heavy fabrication equipment. CNC Cutting, Plate and Tube bending, Sawing and Shearing equipment will be presented and followed up with lab activities to provide a hands-on experience. Emphasizes developing an understanding of the equipment, techniques, safe work habits, and application of heavy metal fabrication skills.

Intro to Electricity for the Diesel Industry

324123401 credit Introduces learners to electrical measurement tools and techniques. Includes both hands-on experience and theory on topics including multimeter operation, Ohm's law, wiring diagram interpretation, and circuit testing. Content is focused on tools and procedures commonly used in automotive, and diesel/heavy equipment industries. Learners will have the opportunity to earn NC3 multimeter certification during this course.

Prerequisite: Admission to Diesel and Heavy Equipment Technician program 324121 or Diesel and Heavy Equipment Technician Assistant program 314122

Mobile Hydraulics Repair

10462121.....**3 credits** Learners employ basic principles and application of pumps, compressors, motors, valves, actuators, and conductors to demonstrate the understanding of hydraulic systems as well as the physical properties of liquids. Learners will identify various parts of a circuit in order to perform light maintenance and troubleshooting in hydraulic systems used on heavy truck, earth-moving, or agricultural equipment. *Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121 or Diesel & Heavy Equipment Technician Assistant program 314122*

Preventive Maintenance-Diesel

324123053 credits

Introduces learner to vehicle preventive maintenance and inspection. Focuses on maintaining and inspecting the engine system, cab, electrical and electronics, and frame and chassis components with an emphasis on DOT inspections. Learners practice proper service on vehicle systems and perform a visual inspection of all vehicle components. Learners also practice how to properly document all maintenance and inspection findings.

Prerequisites: Admission to Diesel & Heavy Equipment Technician program 324121 or Diesel & Heavy Equipment Technician Assistant program 314122 and Suspension & Steering Systems 32412309; Braking Systems-Diesel 32412308

Service Practices in Diesel Industry

32412375.....**1 credit** Introduces the learner to common tools, terminology, and service practices in the transportation field. Covers safety, environmental concerns, and basic customer relations. Service shop management practices and the use of automated work order, parts ordering, and time management concepts are included.

Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121 or Diesel & Heavy Equipment Technician Assistant program 314122

Suspension & Steering Systems

32412309.....**5** credits Analyze the construction and working principles of chassis components to perform on vehicle repairs. Includes instruction on frames, suspension systems, steering gears and linkages, wheels and tires, and wheel alignment. Learners practice on-vehicle diagnosis and repair of suspension and steering systems.

Prerequisite: Admission to Diesel & Heavy Equipment Technician program 324121 or Diesel & Heavy Equipment Technician Assistant program 314122

Welding Fundamentals 1

10442117**1 credit** An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of SMAW, GMAW, and OXY-Fuel cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.

Welding Fundamentals 2

10442118**1 credit** An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of GTAW, FCAW and Plasma cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.



digital marketing

Associate in Applied Science (AAS) Program Code: 10-104-8 Total Credits: 63-65

Mid-State's Digital Marketing program builds the skills, experience, and connections critical to business success. Our graduates can confidently create inventive promotional campaigns, develop and implement graphic and video content, construct a dynamic social media presence, create an Internet marketing strategy, and analyze data essential for making effective business decisions. In this program you'll develop and polish your presentation skills to enable you to work in a multitude of industries. And you'll learn all of this from industry experts while using emerging technology and hands-on tools. Courses are transferable to bachelor's degree programs through a variety of transfer agreements.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where:	
When:	

With:

Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481
 Other:



ADAMS CAMPUS 401 North Main Adams, WI 53910



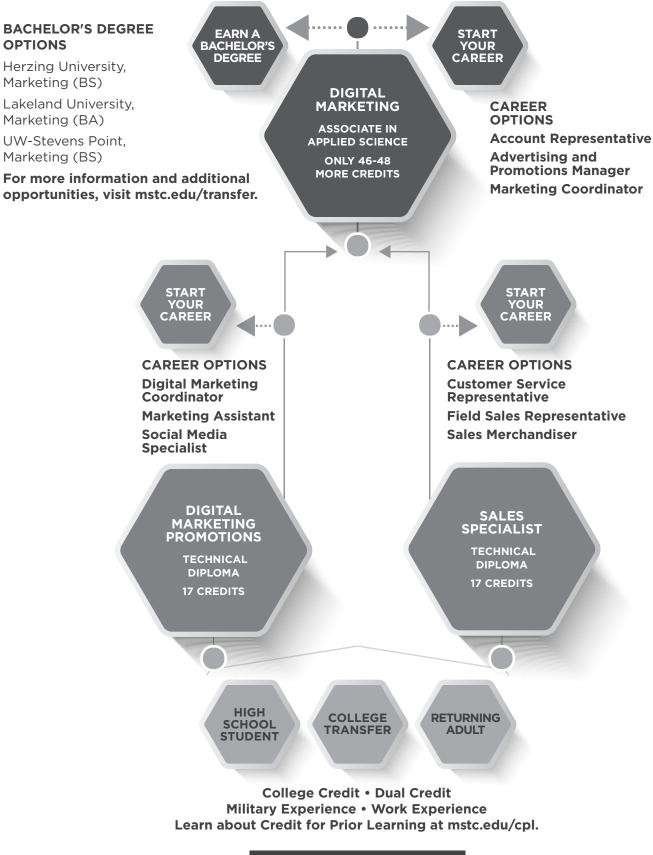
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



BEGIN AT ANY POINT IN THE PATHWAY

PROGRAM OUTCOMES

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

- Develop digital marketing strategies to anticipate and satisfy market needs.
- Create digital marketing content for products, services, images, and ideas.
- Integrate tools and technology for digital marketing initiatives.
- Analyze the effectiveness of marketing outcomes.
- 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.

TECHNICAL SKILLS ATTAINMENT

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 Management.

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 Management.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10102101 10103106 10104102 10104108 10801136	15 cre Intro to Business Microsoft Office-Introduction Marketing Principles Adobe Visual Design English Composition 1	edits 3 3 3 3 3 3
Term 10103124 10104105 10104107 10104109 10104110 10804107	15-16 cre Excel-Intermediate Professional Selling Social Media Marketing Adobe Video Design Marketing Communications College Mathematics -or-	edits 1 3 3 2 3
10804118 10804189	Intermediate Algebra with Applications -or- Introductory Statistics	4 3
Term 10101111 10102121	16-17 cre Accounting I -or- Finance and Budgeting	4
10104125 10104174 10104180 10801196 10801198	Promotion Management Marketing Research Internet and Mobile Marketing Oral/Interpersonal Communication -or- Speech	4 3 3 3
Term	17 cre	dits
10152187	Web Site Development for Business	3
10104111 10104160	Marketing Policy and Ethics Marketing Management	1 4
10809122	Intro to American Government -or-	
10809172 10809196	Introduction to Diversity Studies -or- Intro to Sociology	3
10809188 10809198	Developmental Psychology -or- Intro to Psychology	7
10809198	Economics	3 3
	Total credits 6	3-65

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10103106 10104102 10104111	Microsoft Office-Introduction Marketing Principles Marketing Policy and Ethics	7 credits 3 3 1
Term 10102101 10104105 10804107	9-1 Intro to Business Professional Selling College Mathematics -or-	0 credits 3 3 3
10804118 10804189	Intermediate Algebra with Application -or- Introductory Statistics	ons 4 3
Term 10103124 10104108 10801136	Excel-Intermediate Adobe Visual Design English Composition 1	7 credits 1 3 3
Term 10104107 10104109 10104110	Social Media Marketing Adobe Video Design Marketing Communications	8 credits 3 3 2
Term 10104125 10801196 10801198	Promotion Management Oral/Interpersonal Communication - Speech	7 credits 4 or- 3
Term 10101111	Accounting I	O credits
10102121 10104180 10809188 10809198	-or- Finance and Budgeting Internet and Mobile Marketing Developmental Psychology -or- Intro to Psychology	3 3 3
Term 10152187 10104174 10809122 10809172 10809196	Web Site Development for Business Marketing Research Intro to American Government -or- Introduction to Diversity Studies -or- Intro to Sociology	9 credits 3 3
Term 10104160 10809195	Marketing Management Economics	7 credits 4 3
	Total cred	lits 63-65

Accounting I

10101111......4 credits 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. Also 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.

Adobe Video Design

10104109.....**3 credits** This course develops marketing communication skills in digital video production. Topics include collaboration, design, video production, and audio production using Adobe Premier. Learners will develop skills in storytelling, capturing and editing video and audio, and finalizing content for use in social media, web, and other marketing mediums. The design role of the marketer will be discussed throughout the class. Learners should possess basic keyboarding, mouse, and computer skills and should be familiar with Microsoft Windows.

Adobe Visual Design

10104108.....**3 credits** Provides a project-based, marketing-focused exploration of key Adobe graphic design products to include Photoshop, InDesign, and Illustrator. Students are instructed on document setup, creation techniques, and file formats for both digital and print media required for marketing communications. An introduction to the application of imagery, typography, and color management will also be included. The design role of the marketer will be discussed throughout the class. Learners should possess basic keyboarding, mouse, and computer skills and should be familiar with Microsoft Windows.

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Developmental Psychology

10809188......3 credits Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Economics

108091953 credits Provides an overview of how a market-oriented economic system operates and surveys the factors that 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not*

English Composition 1

meet these requirements.

10801136.....**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Excel-Intermediate

101031241 credit Students learn to summarize and analyze large data sets. Some of Excel's data tools and what-if tools are applied. *Prerequisite: Microsoft Office-Introduction 10103106 or Excel-Beginning 10103123*

Finance and Budgeting

10102121.....**3 credits** For the nonfinancial manager, this course introduces the language of accounting, finance, and budgeting. Provides an overview of the use and analysis of financial statements. Business planning and the foundations and development of budgets are explored. Business financing basics and the securing of necessary financing for a business are covered. Practical application of financial statement creation and analysis, budgetary activities, and finance calculations are included.

Intermediate Algebra with Applications

Internet and Mobile Marketing

10104180.....**3 credits** Introduces the fundamentals and methodologies for developing effective, Internet-based, digital marketing strategies. Specific areas of focus include search engine marketing (SEM) and optimization (SEO), pay-per-click (PPC), website analytics, webpage and content optimization, and best practices for online advertising and email marketing. Additionally, mobile marketing topics such as developing a mobile strategy, planning a mobile web presence, and the effective use of mobile apps and tactics are explored.

Intro to American Government

10809122.....3 credits 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Business

10102101......3 credits 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.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Sociology

108091963 credits

Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Diversity Studies

10809172.....**3 credits** 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introductory Statistics

10804189.....**3 credits** 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: High School GPA of 3.0 or Accuplacer QAS 241 or ACT of 19 or Pre-Algebra 834109 with a grade of "C" or better or College Math 804107 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Marketing Communications

10104110......**2 credits** This course prepares the learner to create and manage a wide range of internal and external organizational communications that are essential to the marketing function. Learners will be instructed on the interpersonal communication techniques required for success as a marketing professional. Topics will include preparing professionally written content, effectively using verbal and non-verbal communication in a business setting, and developing a professional appearance and polish. Presentation techniques for the creation and delivery of complex marketing materials and data will be addressed. Additionally, there will be a focus on public relations to include writing press releases, managing crises, and speaking with the media.

Marketing Management

10104160.....**4 credits** 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.

Prerequisites: Marketing Principles 10104102, Adobe Visual Design 10104108, Adobe Video Design 10104109, Professional Selling 10104105, Social Media Marketing 10104107, Marketing Communications 10104110

Marketing Policy and Ethics

10104111.....1 credit This course will introduce the learner to ethical theories, value systems, and laws that are applicable to moral issues, problems, and situations which arise within the professional marketing environment.

Marketing Principles

10104102.....**3 credits** This course serves as an introduction to the fundamental marketing concepts used to apply marketing strategies to product development, distribution, pricing, and promotion of goods and services.

Marketing Research

10104174**3 credits** Introduces techniques of research and research reporting. The study of market behavior is pursued as students undertake a marketing focused research project. *Prerequisite: Marketing Principles 10104102*

Microsoft Office-Introduction

10103106.....**3 credits** Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, PowerPoint, and Outlook) while reinforcing the students' knowledge of computer concepts, Windows Explorer, and web usage. Students should possess basic keyboarding, mouse and Windows 10 skills. Students may develop these skills in the LiNK while concurrently enrolled in this course.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Professional Selling

10104105.....**3 credits** This course will prepare the student to formulate and facilitate sales presentations using fundamental principles, concepts, and theories of business and consumer selling. An emphasis is given to developing the selling process which includes prospecting and qualifying, planning and pre-approaching, approaching the customer, the sales presentation/demonstration, handling objections, closing the sale and post-sale service and follow-up. Additionally, sales careers and the benefits of personal selling will be explored.

Promotion Management

Social Media Marketing

10104107.....**3 credits** Addresses how social media has transformed marketing communications from traditional mass media to individualized marketing. Using a variety of social media tools and platforms, this class explores the different methodologies for social media marketing. Topics include creating social media, integrating social media as part of a marketing campaign, the concept of viral marketing, measuring social media success through analytics, and how organizations and individuals have successfully applied this form of marketing.

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Web Site Development for Business

10152187.....**3 credits** This course introduces the student to basic web design using Hypertext Markup language (HTML) as well as web development software tools. Learners will create a personal web site using HTML tags and cascading style sheets. Using web development software, students will create a commercial web site using design elements and techniques for customer relationship building. Learners should possess basic keyboarding, mouse, and computer skills and should be familiar with Microsoft Windows.



digital marketing promotions

Technical Diploma Program Code: 30-104-8 Total Credits: 17

The Digital Marketing Promotions technical diploma prepares students to communicate with customers with an emphasis on the use of technology and digital media. Graduates are able to use graphic design and video editing software to create a variety of promotional materials to be used by traditional or online businesses. Courses are taught using hands-on projects that create marketing content using Adobe Photoshop, Illustrator, and InDesign for visual design. You'll also use Adobe Premiere to design and create videos. Finally, an emphasis is placed on planning and developing social media content, learning best practices for email marketing, implementing a variety of techniques for effective search engine marketing (SEM), and the use of analytics for better decision making.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

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Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where:	
When:_	
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Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

Other:



ADAMS CAMPUS 401 North Main Adams, WI 53910



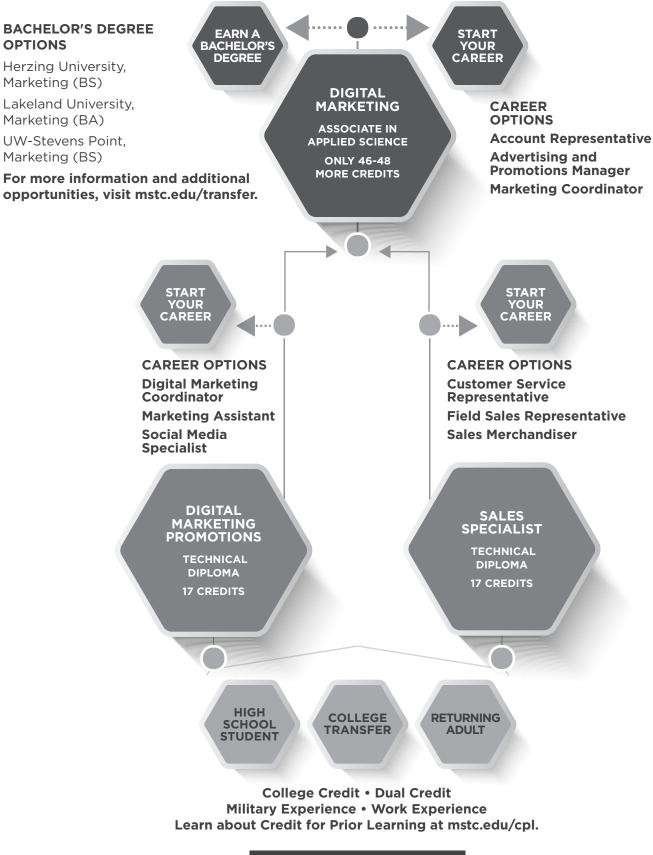
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



BEGIN AT ANY POINT IN THE PATHWAY

PROGRAM OUTCOMES

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

- Create digital marketing content for products, services, images and ideas.
- Integrate tools and technology for digital marketing initiatives.

TECHNICAL SKILLS ATTAINMENT

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. Students who successfully complete Social Media Marketing, Adobe Visual Design, and Adobe Video Design will fulfull the TSA requirement.

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term		17 credits
10104102	Marketing Principles	3
10104107	Social Media Marketing	3
10104108	Adobe Visual Design	3
10104109	Adobe Video Design	3
10104110	Marketing Communications	2
10104180	Internet and Mobile Marketing	3
	Tot	al credits 17

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. For details, go to **mstc.edu/classfinder**.

NOTES:

SAMPLE PART-TIME CURRICULUM OPTION

Term 10104102 10104108 10104110	Marketing Principles Adobe Visual Design Marketing Communications	8 credits 3 3 2
Term 10104107 10104109 10104180	Social Media Marketing Adobe Video Design Internet and Mobile Marketing	9 credits 3 3 3
	То	otal credits 17

Adobe Video Design

10104109.....**3 credits** This course develops marketing communication skills in digital video production. Topics include collaboration, design, video production, and audio production using Adobe Premier. Learners will develop skills in storytelling, capturing and editing video and audio, and finalizing content for use in social media, web, and other marketing mediums. The design role of the marketer will be discussed throughout the class. Learners should possess basic keyboarding, mouse, and computer skills and should be familiar with Microsoft Windows.

Adobe Visual Design

10104108.....**3 credits** Provides a project-based, marketing-focused exploration of key Adobe graphic design products to include Photoshop, InDesign, and Illustrator. Students are instructed on document setup, creation techniques, and file formats for both digital and print media required for marketing communications. An introduction to the application of imagery, typography, and color management will also be included. The design role of the marketer will be discussed throughout the class. Learners should possess basic keyboarding, mouse, and computer skills and should be familiar with Microsoft Windows.

Internet and Mobile Marketing

10104180.....**3 credits** Introduces the fundamentals and methodologies for developing effective, Internet-based, digital marketing strategies. Specific areas of focus include search engine marketing (SEM) and optimization (SEO), pay-per-click (PPC), website analytics, webpage and content optimization, and best practices for online advertising and email marketing. Additionally, mobile marketing topics such as developing a mobile strategy, planning a mobile web presence, and the effective use of mobile apps and tactics are explored.

Marketing Communications

Marketing Principles

10104102.....**3 credits** This course serves as an introduction to the fundamental marketing concepts used to apply marketing strategies to product development, distribution, pricing, and promotion of goods and services.

Social Media Marketing

10104107.....**3 credits** Addresses how social media has transformed marketing communications from traditional mass media to individualized marketing. Using a variety of social media tools and platforms, this class explores the different methodologies for social media marketing. Topics include creating social media, integrating social media as part of a marketing campaign, the concept of viral marketing, measuring social media success through analytics, and how organizations and individuals have successfully applied this form of marketing.



early childhood education

Associate in Applied Science (AAS) Program Code: 10-307-1 Total Credits: 60-61

Graduates of the Early Childhood Education program have the handson knowledge and skills to work confidently with young children in a variety of settings. Mid-State's program lets you work directly with teachers in early childhood educational settings and develop creative and educational activities within the teaching cycle. You'll also learn of the physical, emotional, intellectual, and social development of children spanning infancy through school age as well as how to recognize typical and exceptional patterns of growth.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where: _

When:

With:_____

Official Transcripts

Mid-State Technical College

Student Services Assistant

1001 Centerpoint Drive

Stevens Point, WI 54481

Criminal Background Statement of Understanding and Release of Information Form

Other:



ADAMS CAMPUS 401 North Main Adams, WI 53910



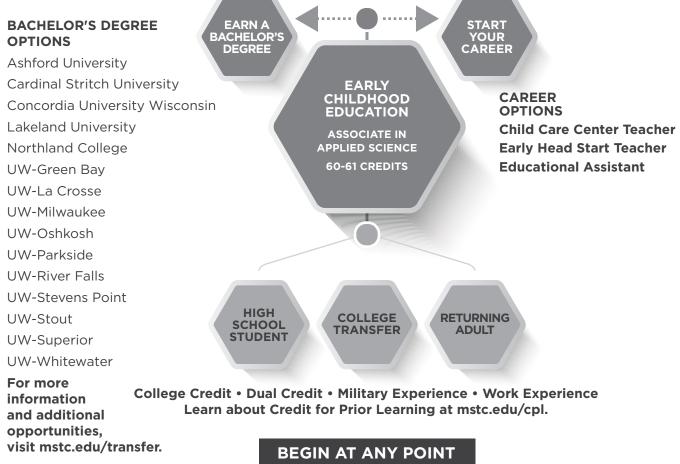
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



IN THE PATHWAY

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, families, and the community.
- Assess child growth and development.
- Use best practices in teaching and learning.
- Demonstrate professionalism.
- Integrate health, safety, and nutrition practices.

TECHNICAL SKILLS ATTAINMENT

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. Students will be assessed using a portfolio.

Students enrolling in the Early Childhood Education program will have the opportunity to complete coursework toward specific registry credentials, including preschool, infant/toddler, and inclusion.

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

TECHNICAL STANDARDS

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-childhoodeducation**. Contact the Disability Services coordinator in the Student Services & Information Center to receive assistance.

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. The background check process will include fingerprinting and will require students to visit a Fieldprint location in order to have their fingerprints scanned. A current list of crimes prohibiting one from being licensed to care for children in Wisconsin can be found at https://dcf.wisconsin.gov/files/publications/pdf/5206.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 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 a course is dependent upon availability of all courses. Students may be required to apply for program re-entry in order to repeat a course within the program's instructional area.

PRACTICUM-RELATED REQUIREMENT

Prior to placement at a practicum site, students need to pay for a five-year criminal background check/fingerprint and provide documentation of required health work to the Mid-State Technical College Early Childhood Program coordinator. A background check will also be required to be completed on a yearly basis while in the program.

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. Mid-State will make two attempts to place a student in an appropriate practicum experience. If Mid-State 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.

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 that 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 training.
- e. Meet the identified Technical Standards necessary to be successful in practicum placement.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

108311033 credits 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

NOTES:

SAMPLE FULL-TIME CURRICULUM OPTION

Term	18 cred	its
10307108	ECE: Early Language & Literacy	3
10307110	ECE: Soc S, Art, & Music	3
10307167	ECE: Health, Safety, & Nutrition	3
10307174	ECE: Introductory Practicum	3 3
10801136 10801196	English Composition 1	3
10801196	Oral/Interpersonal Communication -or- Speech	3
10601196	Speech	3
Term	15-16 cred	its
10307148	ECE: Foundations of Early	
	Childhood Education	3
10307175	ECE: Preschool Practicum	3
10307179	ECE: Child Development	3 3 3
10307188	ECE: Guiding Children's Behavior	3
10804107	College Mathematics	3
	-or-	
10804118	Intermediate Algebra with Applications	4
10804189	-or-	3
10804189	Introductory Statistics	5
Term	15 cred	its
10307112	ECE: STEM	3
10307151	ECE: Infant & Toddler Development	
10307177	ECE: Intermediate Practicum	3 3 3
10307187	ECE: Children with Differing Abilities	3
10809172	Introduction to Diversity Studies -or-	
10809196	Intro to Sociology	3
_		
Term	12 cred	
10307195 10307199	ECE: Family and Community Relationships ECE: Advanced Practicum	3 3
10307199	Intro to Ethics: Theory & Application -or-	5
10809100	Economics	3
10809193	Developmental Psychology -or-	5
10809198	Intro to Psychology	3
		-
	Total Credits 60-	·61

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10307110 10307148 10307108	ECE: Soc S, Art, & Music ECE: Foundations of Early Childhood Education ECE: Early Language & Literacy	9 credits 3 3 3		
Term 10307179 10809172 10809196	ECE: Child Development Introduction to Diversity Studies -or- Intro to Sociology	6 credits 3 3		
Term 10307151 10801196 10801198	ECE: Infant & Toddler Development Oral/Interpersonal Communication -c Speech	6 credits 3 or- 3		
Term 10307188 10801136	ECE: Guiding Children's Behavior English Composition 1	6 credits 3 3		
Term 10804107	6- College Mathematics -or-	7 credits 3		
10804118	Intermediate Algebra with Applicatio	ns 4		
10804189 10809188 10809198	Introductory Statistics Developmental Psychology -or- Intro to Psychology	3 3		
Term 10307167	ECE: Health, Safety, & Nutrition	3 credits 3		
Term 10307174 10307112	ECE: Introductory Practicum ECE: STEM	6 credits 3 3		
Term 10307175 10809166 10809195	ECE: Preschool Practicum Intro to Ethics: Theory & Application Economics	6 credits 3 -or- 3		
Term 10307177 10307187	ECE: Intermediate Practicum ECE: Children with Differing Abilities	6 credits 3 3		
Term 10307195 10307199	ECE: Family and Community Relation	6 credits aships 3 3		
Total Credits 60-61				

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Developmental Psychology

10809188.....**3 credits** Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

ECE: Advanced Practicum

10307199.....3 credits In this final 3-credit practicum course you will demonstrate competence in supporting child development through observation, assessment and implementation of teaching strategies as you work in and learn about and apply the course competencies in an actual early childhood setting. You will demonstrate a high level of skill in fostering relationships with children, families and early childhood professionals, and use skills learned in a lead teacher role to develop a career plan to transition from student to early childhood education professional.

Prerequisite: ECE: Intermediate Practicum 10307177

ECE: Child Development

10307179.....**3 credits** The 3-credit course examines child development within the context of the early childhood education setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; analyze social, cultural, and economic influences on child development; summarize child development theories; analyze development of children ages three through five; analyze development of children ages five through eight; relate child development research findings to teaching practice; analyze the role of heredity and the environment; examine the role of brain development in early learning (ages 3-8); examine developmental and environmental assessment strategies for children ages 3-8.

ECE: Children with Differing Abilities

10307187......3 credits This 3-credit course focuses on the child with differing abilities in an early childhood education setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; promote inclusive programs for young children; apply legal and ethical requirements including, but not limited to, ADA and IDEA; examine the consultation process to embed intervention in natural based settings; differentiate between typical and exceptional development; analyze the differing abilities of children with physical, cognitive, health/medical, communication, and/or behavioral/emotional disorders; identify community and professional resources; interpret an individual educational plan (IEP/IFSP) for children with developmental differences: adapt curriculum to meet the needs of children with developmental differences; examine strategies for cultivating partnerships with families who have children with developmental differences.

ECE: Early Language & Literacy

10307108.....**3 credits** This course explores strategies to encourage the development of early language and literacy knowledge and skill building in children birth to 8 years of age. Learners will investigate the components of literacy including; literacy and a source of enjoyment, vocabulary and oral language, phonological awareness, knowledge of print, letters and words, comprehension and an understanding of books and other texts. Theories and philosophies regarding children's language and literacy development will be addressed. Dual language learning will be examined within the context of developmentally appropriate practices. Assessment tools for early language and literacy acquisition will be reviewed.

ECE: Family and Community Relationships

10307195.....3 credits In this 3-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, cultural responsiveness, and anti-bias perspectives when working with families and community; analyze contemporary family patterns and trends; identify strategies to strengthen and support families; explore effective communication strategies; discover strategies for developing respectful and reciprocal relationships with families; analyze strategies to promote family engagement in early childhood education programs; explore a variety of formats for meeting with families in their contexts; advocate for children and families; and explore community resources that provide a range of services for children and families.

ECE: Foundations of Early Childhood Education 10307148......3 credits

This 3-credit course introduces you to the early childhood profession. Course competencies include: explore the concepts of diversity, cultural responsiveness, and anti-bias as it relates to early childhood education, investigate the history of early childhood education, examine regulatory requirements for early childhood education programs in WI, summarize types of early childhood education settings, identify the components of a quality early childhood education program, summarize responsibilities of early childhood education professionals, explore early childhood curriculum models and examine the critical role of play as it relates to developmentally appropriate practice.

ECE: Guiding Children's Behavior

10307188.....3 credits This 3-credit course examines positive strategies to guide children's behavior in the early childhood education setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; analyze techniques for and effects of strong relationship-building with children and families; identify positive and proactive guidance principles and techniques to support children; analyze environmental influences on child behavior; identify strategies that support children's active engagement in the learning environment; identify strategies that proactively teach emotional literacy and regulation techniques; identify strategies that proactively teach friendship skills; identify strategies that proactively teach children calming, relaxation, and problem-solving techniques; utilize observation and assessment techniques to assess and interpret behavior; create a behavior support plan based on a functional behavior assessment; create a guidance philosophy. This course meets the requirements of the "24 hour Wisconsin" Pyramid Model training.

ECE: Health, Safety, & Nutrition

10307167.....3 credits This 3-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, cultural responsiveness, and anti-bias perspectives; examine governmental regulations and professional standards as they apply to health, safety, and nutrition; plan a safe early childhood environment; plan a healthy early childhood environment; plan nutritionally sound menus; examine child abuse and neglect issues and mandates; describe Sudden Infant Death Syndrome (SIDS) risk reduction strategies, describe strategies to prevent the occurrence of Shaken Baby Syndrome (SBS); incorporate health, safety, and nutrition concepts into the children's curriculum.

ECE: Infant & Toddler Development

10307151.....3 credits In this 3-credit course you will study infant and toddler development as it applies to an early childhood education setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; analyze development of infants and toddlers (conception to thirty-six months); 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 thirty-six months); examine caregiving routines as curriculum; and examine developmental and environmental assessment strategies for infants and toddlers.

ECE: Intermediate Practicum

10307177....**3 credits** In this 3-credit course you will be implementing regulations and standards for quality early childhood education, applying knowledge of child development and positive guidance, utilizing observation and assessment techniques, and assessing developmentally appropriate environments for children.

Prerequisites: ECE: Introductory Practicum 10307174; ECE: Preschool Practicum 10307175; Corequisite: ECE: Infant and Toddler Development 10307151

ECE: Introductory Practicum

10307174.....**3 credits** In this 3-credit practicum course you will learn about and apply the course competencies in an actual early childhood setting. You will explore the standards for quality early childhood education, demonstrate professional behaviors, and meet the requirements for training in the Wisconsin Model Early Learning Standards.

Prerequisite: Admission to Early Childhood Education program 103071, Corequisites: ECE: Health, Safety, & Nutrition 10307167; ECE: Early Language & Literacy 10307108 OR ECE: Soc S, Art, & Music 10307110. Students must meet the state administrative code requirements to be in an Early Childhood Education setting (including both prior coursework and Caregiver Background Check).

ECE: Preschool Practicum

10307175......3 credits

This course will apply as the capstone course in The Registry Preschool Credential. You will be placed or working in an early childhood setting with 3-5 year old children and create a portfolio that prepares you for The Registry commission. In this course you will be implementing regulations and standards for quality early childhood education, applying knowledge of child development and positive guidance, utilizing observation and assessment techniques, and assessing developmentally appropriate environments for preschoolers.

Prerequisite: Introductory Practicum 10307174; Corequisites: ECE: Early Language & Literacy 10307108, ECE: Soc S, Art, & Music 10307110; ECE: Child Development 10307179 and ECE: Guiding Children's Behavior 10307188

ECE: Soc S, Art, & Music

ECE: STEM

10307112.....3 credits This 3-credit course will focus on the beginning level curriculum development in the specific integrated content areas of science, technology, engineering and mathematics.

Economics

10809195.....**3 credits** Provides an overview of how a market-oriented economic system operates and surveys the factors that 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

English Composition 1

10801136.....**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Intermediate Algebra with Applications

10804118......**4 credits** 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; and algebra of inverse, logarithmic, and exponential functions. *Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 263 and QAS 234 or ACT of 19 or QAS of 245, or Pre-Algebra 10834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Intro to Ethics: Theory & Application

10809166.....**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Sociology

10809196.....**3 credits** Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Diversity Studies

10809172.....3 credits 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Introductory Statistics

10804189.....**3 credits** 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: High School GPA of 3.0 or Accuplacer QAS 241 or ACT of 19 or Pre-Algebra 834109 with a grade of "C" or better or College Math 804107 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*



electrical power engineering technician

Associate in Applied Science (AAS) Program Code: 10-605-5 Total Credits: 61

Unique in the Wisconsin Technical College System, Mid-State's Electrical Power Engineering Technician program prepares graduates to maintain vital energy systems that harness fossil, hydro, and nuclear energy sources. You'll learn the principles of high-voltage energy transmission and how to analyze instrument readings. You'll also learn how to locate equipment, design wiring layouts, route new power lines, specify materials, troubleshoot equipment and systems, and much more. You'll gain hands-on experience operating a bucket truck and take field trips to electrical power generation facilities, dispatch centers, substations, and motor repair facilities.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:	
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

Other:		



ADAMS CAMPUS 401 North Main Adams, WI 53910



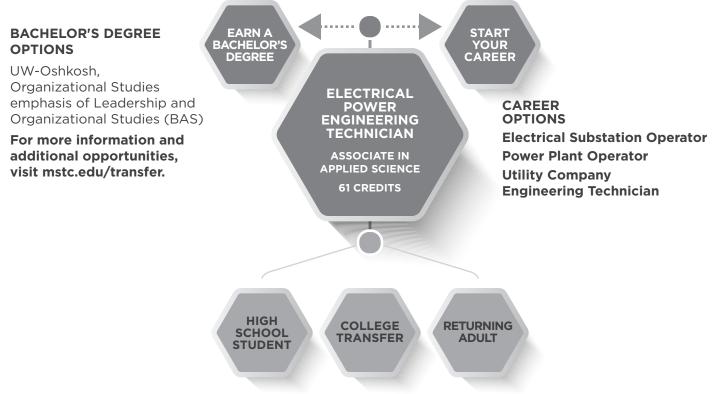
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Civil Engineering Technology-Highway Technician
- Industrial Automation & Controls Engineering Technology

APPRENTICESHIP OPPORTUNITIES

• Metering Technician Apprenticeship

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.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

NOTES:

STUDENT HANDBOOK

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GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109.....**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10103123 10605105 10605120 10623106 10623115 10801136 10804118	16 cred Excel-Beginning Electrical Circuits I Electrical Power Science Intro to AutoCAD Intro to Engineering English Composition 1 Intermediate Algebra with Applications	its 1 3 1 1 3 4
Term 10605110 10605115 10605122 10801196 10801198 10804196	15 cred Electrical Circuits II Semiconductor Technology Electrical Power Generation Oral/Interpersonal Communication -or- Speech Trigonometry with Applications	its 3 3 3 3 3 3 3 3
Term 10605117 10605125 10605127 10804195 10806143	15 cred Automation 1 - Beginning PLC Electrical Power Distribution Electrical Machines College Algebra with Applications College Physics 1	its 3 3 3 3 3 3 3
Term 10605124 10605170 10809122 10809166 10809188 10809198	15 cred Electrical Power Transmission Electrical Power System Protective Relaying Intro to American Government -or- Intro to Ethics: Theory & Application Developmental Psychology -or- Intro to Psychology Elective	its 3 3 3 3 3 3
	Total credits	61

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10605105 10623115 10804118	Electrical Circuits I Intro to Engineering Intermediate Algebra with Application	8 credits 3 1 ons 4
Term 10103123 10605110 10804196	Excel-Beginning Electrical Circuits II Trigonometry with Applications	7 credits 1 3 3
Term 10605120 10623106 10801136	Electrical Power Science Intro to AutoCAD English Composition 1	7 credits 3 1 3
Term 10605115 10605122 10801196 10801198	Semiconductor Technology Electrical Power Generation Oral/Interpersonal Communication - Speech	9 credits 3 3 or- 3
Term 10605117 10605125 10804195	Automation 1 - Beginning PLC Electrical Power Distribution College Algebra with Applications	9 credits 3 3 3 3
Term 10605170 10809122 10809166	Electrical Power System Protective F Intro to American Government -or- Intro to Ethics: Theory & Application Elective	
Term 10605127 10806143	Electrical Machines College Physics 1	6 credits 3 3
Term 10605124 10809188 10809198	Electrical Power Transmission Developmental Psychology -or- Intro to Psychology	6 credits 3
Total credits 61		

Automation 1 - Beginning PLC

10605117**3 credits** An overview of programmable logic controllers (PLCs) that provides a foundation of knowledge of the programming techniques, operation, and maintenance of PLCs used in typical industrial automation.

College Algebra with Applications

108041953 credits Covers the 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, combinatories, and the binomial theorem.

Prerequisite: Trigonometry with Applications 10804196 with a grade of "C" or better or Intermediate Algebra with Applications 10804118 with a grade of "C" or better. Students without Trigonometry with Applications are encouraged to bring transcripts for individual course evaluation.

College Physics 1

10806143**3 credits** Presents the applications and theory of basic physics

principles. This course emphasizes problem solving, laboratory investigation and applications. Topics include laboratory safety, unit conversions and analysis, kinematics, dynamics, work, energy, power, temperature and heat. *Corequisite: Trigonometry with Applications 10804196*

Developmental Psychology

10809188.....**3 credits** Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Electrical Circuits I

10605105**3 credits** 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 percent of the course is spent in the laboratory applying the principles and theory presented in the classroom. *Corequisite: Intermediate Algebra with Applications 10804118*

Electrical Circuits II

10605110.....**3 credits** Continues the study of AC/DC circuits started in Electrical Circuits I. Introduces advanced DC circuit analysis techniques such as Thevenin's Theorem and nodal analysis. Includes discussion of voltage and power theorems used in the analysis of AC circuits consisting of both resistance and reactance. The complex plane and construction of phasor diagrams are also discussed. Concludes with an introduction to electronic filter circuits used in transmission and communication equipment. Approximately 50 percent of the course is spent in the laboratory, applying the principles and theory presented in the classroom. *Prerequisite: Electrical Circuits I 10605105 with a "C" or better; Corequisite: Trigonometry with Applications 10804196*

Electrical Machines

10605127.....3 credits Teaches the fundamentals of generators and motors. Covers DC and AC generators and motors. *Prerequisite: Electrical Circuits I 10605105*

Electrical Power Distribution

10605125.....3 credits 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 apply 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*

Electrical Power Generation

10605122.....3 credits A study of equipment and facilities used in the production of electricity. Topics include fuels, prime mover turbines, and generators. Emphasizes safety controls, efficient production, and operational procedures. Concludes with computer-simulated operation of a large power station boiler. It is recommended that students take Electrical Power Science 10605120 prior to taking this course.

Electrical Power Science

10605120.....**3 credits** 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.

Electrical Power System Protective Relaying

10605170.....**3 credits** 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*

Electrical Power Transmission

106051243 credits

Covers the basic principles of high-voltage transmission of electrical energy. Introduces students to the concepts of active, reactive, and apparent power in electric power technology. Discusses basic properties of single- and three-phase transformers and their importance to power transmission. The behavior of ideal and practical (or nonideal) transformers are used as a building block to explain the electrical function of a transformer in many transmission circuits. Discusses basic mechanical (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. Approximately 50 percent of the course is spent in the laboratory working with equipment that simulates power transmission.

Prerequisites: Electrical Machines 10605127 and Electrical Power Distribution 10605125

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Excel-Beginning

10103123.....1 credit Students learn to create, modify, and format spreadsheets, charts, and graphics. Students also learn to perform calculations and analysis on data.

Intermediate Algebra with Applications

10804118......**4 credits** 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; and algebra of inverse, logarithmic, and exponential functions. *Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 263 and QAS 234 or ACT of 19 or QAS of 245, or Pre-Algebra 10834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Intro to American Government

10809122.....**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to AutoCAD

106231061 credit This introductory course in computer-aided drafting (CAD) using AutoCAD software 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.

Intro to Engineering

10623115.....**1 credit** This introductory course in engineering focuses on engineering concepts of analysis through resolution of dimensions in problem solving, life cycle cost, and logic/reasoning. *Corequisite: Intermediate Algebra w/Apps 10804118 or consent of instructor*

Intro to Ethics: Theory & Application

10809166**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Semiconductor Technology

10605115**3 credits** Presents semi-conductor principles with emphasis on practical applications. After reviewing diode and transistor characteristics, studies bias stabilizing techniques followed by an introduction to transistor amplifiers. *Corequisite: Electrical Circuits II 10605110*

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Trigonometry with Applications

10804196.....**3 credits** 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. Students without Intermediate Algebra with Applications are encouraged to bring transcripts for individual course evaluation.*



emergency medical technician

Technical Diploma Program Code: 30-531-3 Total Credits: 5

The Emergency Medical Technician (EMT) program at Mid-State prepares students with the knowledge and skills needed to work as an entry-level EMT. This hands-on 180-hour program consists of classroom lectures, practical skill labs, laboratory simulations, and pre-hospital clinical experiences. Successfully completing the program qualifies you to take the National Registry of EMT's certification exam required to apply for state licensure. Graduates of the Emergency Medical Technician technical diploma may advance into either the EMT-Paramedic program or Paramedic Technician program.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

When:

- With:_____
- Official Transcripts

Mid-State Technical College

Student Services Assistant

1001 Centerpoint Drive

Stevens Point, WI 54481

Criminal Background Statement of Understanding and Release of Information Form

Other:



ADAMS CAMPUS 401 North Main Adams, WI 53910



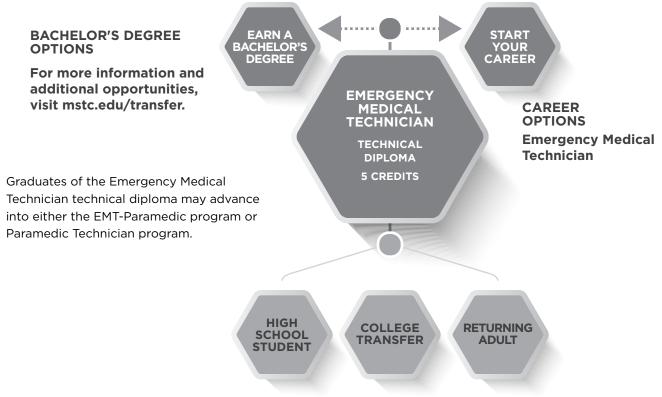
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Corrections & Community Advocacy
- Criminal Justice-Law Enforcement 720 Academy
- Criminal Justice-StudiesEmergency Services
- Management
- EMT-Paramedic
- Fire Protection Technician
- Paramedic Technician

PROGRAM OUTCOMES

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

- Prepare for incident response and EMS operations.
- Integrate pathophysiological principles and assessment findings to provide appropriate patient care.
- Demonstrate EMT skills associated with established standards and procedures for a variety of patient encounters.
- Communicate effectively with others.
- Demonstrate professional behavior.
- Meet state competencies for EMT certification.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting during the program orientation on the first day of class.

ADDITIONAL ENTRY CRITERIA

To apply to the Emergency Medical Technician program, please submit the following document to Mid-State Admissions:

• Criminal Background Statement of Understanding and Release of Information form.

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

TECHNICAL STANDARDS

A list of specific physical, emotional, and mental tasks needed to function as an emergency medical technician is available at **mstc.edu/programs/emergency-medicaltechnician**. Contact the Disability Services coordinator in the Student Services & Information Center to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check through a private vendor. Students will be required to provide documentation of required health work and current healthcare provider CPR certification via a Blackboard assignment. 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. Mid-State will make two attempts to place a student in an appropriate clinical experience. If Mid-State 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.

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.
- b. Hold a Department of Health Services EMS Training Center Training Permit at the EMT level.

- c. Provide evidence of current CPR at the health care professional level by a CPR organization specified under s. DHS 110.17(1).
- d. Obtain the required uniform for clinical experiences.
- e. Assume responsibility for clinical assignment(s) regardless of time and location, including transportation and other personal arrangements.

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 all courses within the Emergency Medical Technician program.
- A minimum grade of "C" is required in EMT Foundations in order to progress on to the EMT Applications course. The entire five credits must be completed consecutively in the same academic year in order to be eligible for National Registry testing.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

108381042 credits Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10531940	EMT Foundations	3 credits 3
Term 10531941	EMT Applications	2 credits
		Total credits 5

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. For details, go to mstc.edu/classfinder.

course descriptions

EMT Applications

10531941.....2 credits Course covers the bulk of the Emergency Medical Technician certification course to include the handling of cervical and spine injuries, burn injuries, heart- and breathing-related problems, shock, and other trauma injuries. Includes several lab days to practice and perfect skills, clinical time, and extensive hands-on activities. Prepares students for national certification testing for EMT. To maintain National Registry certification eligibility this course must be finished the semester following the completion of EMT Foundations. *Prerequisite: EMT Foundations 10531940*

EMT Foundations

10531940.....**3 credits** Covers the basics of the Emergency Medical Technician certification course to include CPR, airways, anatomy, hazmat response requirements, lifting and moving patients, incident command, and other technical information. It is the first part of a two-course system to prepare students for national certification testing for EMT.

Prerequisite: Admission to Paramedic Technician program 105311 OR Emergency Medical Technician program 305313 OR Fire Protection Technician program 105032

NOTES:



emergency services management

Associate in Applied Science (AAS) Program Code: 10-503-5 Total Credits: 60

Mid-State's Emergency Services Management program will strengthen and advance the knowledge and skills needed for firefighters and paramedics to become supervisors. The program focuses on topics such as personnel management, risk management, OSHA, legal aspects, and community relations. Fire and EMS tracks are available to allow students an opportunity to pursue additional knowledge in their area of interest or career path. This program is online, thus the experiences will be different from a traditional course. Activities in class will strengthen collaboration, problem-solving, critical thinking, and research.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

Follow-Up Appointment:

Where:	
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

mstc.edu 888.575.6782

> ADAMS CAMPUS 401 North Main Adams, WI 53910



MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449

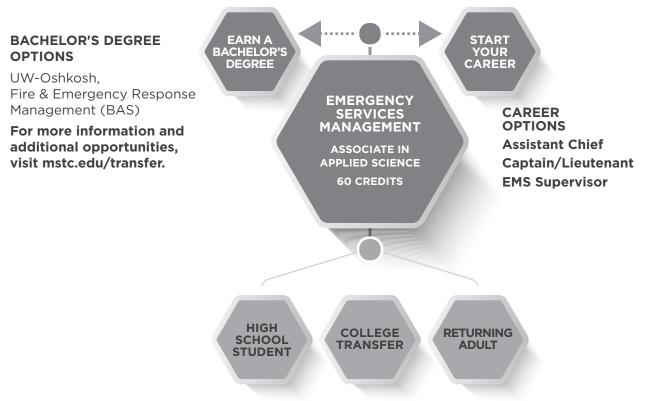


STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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Other:_____

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Corrections & Community Advocacy
- Criminal Justice-Law Enforcement 720 Academy
- Criminal Justice-Studies
- Emergency Medical Technician
- EMT-Paramedic
- Fire Protection Technician
- Paramedic Technician

PROGRAM OUTCOMES

Employers will expect you, as an Emergency Services Management graduate, to be able to:

- Demonstrate the professional responsibilities of a fire or emergency services manager.
- Demonstrate critical and creative thinking in the problem-solving process.
- Apply research and best practices in the fire or emergency services professions.
- Demonstrate the professional attributes necessary for a fire or emergency services manager to lead effectively.
- Apply the legal, ethical, and regulatory standards that relate to the fire or emergency services.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

TECHNICAL STANDARDS

A list of specific physical, emotional, and mental tasks needed to function as a fire protection technician is available at **mstc.edu/programs/emergency-services-management**. Contact the Disability Services coordinator in the Student Services & Information Center to receive assistance.

PROGRAM PROGRESSION

Students must receive a grade of "C" or better in each of the technical and general education courses in order to qualify for graduation.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10503102	16 credit	ts 5
10503121	Emergency Services Safety and Survival	2
10503143 10531170	Building Construction for Fire Protection -or - Intro to Evidence-Based EMS	3
10546100	Essential Concepts for Health and Wellness	3
10801136	English Composition 1	3
Term	16 credi	ts
10503122	Principles of Emergency	
10503123	Services Administration Occupational Safety and Health for	4
10303123	Emergency Services	3
10503195	Fire Behavior & Combustion -or-	-
10531171	EMS Leadership Challenges	3
10804107	College Mathematics	3 3
10809166	Intro to Ethics: Theory & Application	3
Term	15 credi	ts
10503124	Emergency Services Instructor	3
10503125	Personnel Management for Emergency Services	3
10503126	Legal Aspects of Emergency Services	3
10503127	Community Risk Reduction	3 3
10809198	Intro to Psychology	3
Term	13 credi	ts
10503128	Public Information and	_
10507150	Community Relations	3
10503156 10531172	Strategies, Tactics, & Incident Management -or - Supervision of EMS Special Operations	4
10801197	Technical Reporting	3
10809122	Intro to American Government -or-	
10809172	Introduction to Diversity Studies -or-	_
10809196	Intro to Sociology	3
	Total credits 6	0

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10503102 10503121 10503143 10531170	10 creditsIntro to Emergency Services5Emergency Services Safety and Survival2Building Construction for Fire Protection -or-1Intro to Evidence-Based EMS3
Term 10503123	9 credits Occupational Safety and Health for
10503195 10531171 10809166	Emergency Services3Fire Behavior & Combustion -or-EMS Leadership Challenges3Intro to Ethics: Theory & Application3
Term 10546100 10801136	6 credits Essential Concepts for Health and Wellness 3 English Composition 1 3
Term 10503122	7 credits Principles of Emergency
10804107	Services Administration4College Mathematics3
Term 10503126 10503127 10809198	9 credits Legal Aspects of Emergency Services3Community Risk Reduction3Intro to Psychology3
Term 10503156 10531172	7 credits Strategies, Tactics, & Incident Management -or - Supervision of EMS Special Operations 4
10801197	Technical Reporting 3
Term 10503124 10503125	6 creditsEmergency Services Instructor3Personnel Management for3
Токто	Emergency Services 3 6 credits
Term 10503128	Public Information and
10809122 10809172 10809196	Community Relations3Intro to American Government -or-Introduction to Diversity Studies -or-Intro to Sociology3
	Total credits 60

Building Construction for Fire Protection

10503143.....3 credits Provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, pre-planning fire operations, and operating at emergencies.

Prerequisite: Admission to Fire Protection Technician program 105032 or Emergency Services Management program 105035

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Community Risk Reduction

10503127.....3 credits Prepares the student to understand the assessment of community risk, the analysis of risk, risk communication, risk problem-solving, and mitigation efforts. *Prerequisite: Intro to Emergency Services 10503102*

Emergency Services Instructor

10503124.....3 credits Introduces the emergency services professional to the education system as it relates to fire and EMS education. Students explore issues in curriculum development, teaching, program direction, and development. *Prerequisite: Intro to Emergency Services 10503102*

Emergency Services Safety and Survival

105031212 credits Broadens the scope of the national firefighter life safety initiatives and emphasizes their importance at the supervisory and managerial levels. The life safety initiatives are examined from firefighter and EMS provider perspectives. *Prerequisite: Intro to Emergency Services 10503102*

EMS Leadership Challenges

10531171......3 credits Explores the unique challenges that face EMS leaders in today's environment. Emphasizes key issues such as recruitment, retention, education, and mental health.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Essential Concepts for Health and Wellness

10546100.....**3 credits** An introductory course focusing on 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 positively and negatively impact the health and wellness of an individual.

Fire Behavior & Combustion

10503195.....3 credits Explores the theories and fundamentals of how and why fires start, spread, and are controlled. *Prerequisite: Building Construction for Fire Protection 10503143 or Intro to Emergency Services 10503102*

Intro to American Government

10809122.....3 credits 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Emergency Services

105031025 credits

This course is fulfilled only through credit transfer or credit for prior learning. In order to receive this credit, the student must possess either Wisconsin Firefighter 1 certification (or out-of-state equivalent) or certification as an emergency medical technician or higher.

Prerequisite: Admission to Emergency Services Management program 105035

Intro to Ethics: Theory & Application

10809166**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Evidence-Based EMS 10531170......3 credits

Examines evidence-based medicine and its application to EMS operations. Topics of study include airway management, cardiac resuscitation, prehospital ultrasound, dispatch policies, and others.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Sociology

10809196.....**3 credits** Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Diversity Studies

10809172.....3 credits 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Legal Aspects of Emergency Services

10503126.....3 credits Addresses the federal, state, and local laws that regulate emergency services and includes a review of national standards, regulations, and consensus standards. *Prerequisite: Intro to Emergency Services 10503102*

Occupational Safety and Health for Emergency Services

10503123.....3 credits Introduces the basic concepts of occupational health and safety as it relates to emergency services organizations. Topics include risk and hazard evaluation and control procedures for emergency service organizations. *Prerequisite: Intro to Emergency Services 10503102*

Personnel Management for Emergency Services

10503125.....3 credits Examines personnel administration and the development of human resources. Topics of study include personnel management, organizational development, productivity, recruitment and selection, performance management systems, discipline, and collective bargaining. *Prerequisite: Intro to Emergency Services 10503102*

Principles of Emergency Services Administration

10503122......**4 credits** Demonstrates the importance of the following skills necessary to manage and lead a fire and emergency services department through the challenges and changes of the 21st century: persuasion and influence, accountable budgeting, anticipation of challenges and the need for change, and using specific management tools for analyzing and solving problems.

Prerequisite: Intro to Emergency Services 10503102

Public Information and Community Relations

10503128.....3 credits Introduces the emergency services professional to the benefits of community information and community relations. Students explore issues in marketing, developing the message, identifying the audience, developing programs, and creating press releases. *Prerequisite: Intro to Emergency Services 10503102*

Strategies, Tactics, & Incident Management

10503156......4 credits Provides the principles of fire ground control through use of personnel, equipment, and extinguishing agents. *Prerequisite: Firefighting Principles 10503142 or Intro to Emergency Services 10503102*

Supervision of EMS Special Operations

10531172.....**4 credits** Explores the supervisor's role in special EMS operations, such as triage, mass casualty incidents, rehabilitation, and operating in tactical environments.

Technical Reporting

10801197.....**3 credits** 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: English Composition I 10801136 with a grade of "C" or better or Written Communication 10801195 with a grade of "C" or better. Proficiency in word processing skills recommended.*



emt-paramedic

Technical Diploma Program Code: 31-531-1 Total Credits: 38

Mid-State's EMT-Paramedic program provides the knowledge and skills needed to work competently as an entry-level EMT-paramedic. Students enter a joint core course cohort with Paramedic Technician degree students. Graduates earn a technical diploma upon successful completion of this program. This program consists of classroom lectures, practical skills lab, laboratory simulations, and hospital and pre-hospital clinical experiences. Upon successful completion, you will earn certifications in Advanced Cardiac Life Support, Prehospital Trauma Life Support, and Pediatric Advanced Life Support and be eligible to take the National Registry of Emergency Medical Technician written and practical examinations.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:	_
--------	---

When:

- With:_____
- Official Transcripts

Mid-State Technical College

Student Services Assistant

1001 Centerpoint Drive

Stevens Point, WI 54481

Criminal Background Statement of Understanding and Release of Information Form

Other:

mstc.edu 888.575.6782

> ADAMS CAMPUS 401 North Main Adams, WI 53910



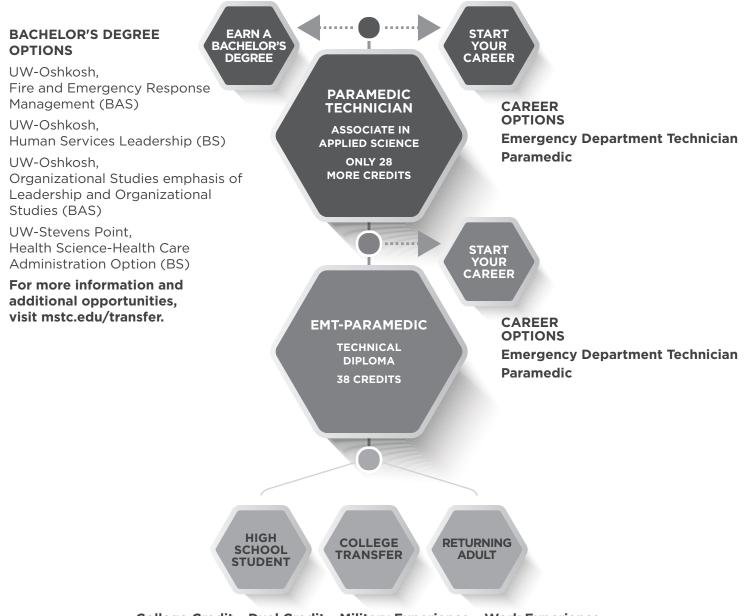
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.

OTHER OPTIONS

RELATED PROGRAMS

- Corrections & Community
 Advocacy
- Criminal Justice-Law
 Enforcement 720 Academy
- Criminal Justice-Studies
- Emergency Medical Technician
- Emergency Services
 Management
- Fire Protection Technician

BEGIN AT ANY POINT IN THE PATHWAY

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 to provide appropriate patient care.
- 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 competencies listed for paramedic certification(s).

TECHNICAL SKILLS ATTAINMENT

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. Students will fulfill the TSA requirements when they complete the clinical and field courses.

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.

EMT-Paramedic is a 1,150-hour program based upon the US Department of Transportation Administration/Wisconsin Bureau Local Health Support and EMS curriculum.

ADDITIONAL ENTRY CRITERIA

To apply to the EMT-Paramedic program, please submit the following documents to Mid-State Admissions:

- Criminal Background Statement of Understanding and Release of Information form.
- A current Wisconsin EMT license.

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

TECHNICAL STANDARDS

A list of specific physical, emotional, and mental tasks needed to function as an EMT-paramedic is available at **mstc.edu/programs/emt-paramedic**. Contact the Disability Services coordinator in the Student Services & Information Center to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check through a private vendor. Students will be required to provide documentation of required health work and current healthcare provider CPR certification via a Blackboard assignment. 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. Mid-State will make two attempts to place a student in an appropriate clinical experience. If Mid-State 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.

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.
- b. Hold a current State of Wisconsin EMT license.
- c. Hold a Department of Health Services EMS 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

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.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

108311033 credits 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

NOTES:

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10531911 10531912 10531913 10531914 10531915 10531917 10531918 10531955	EMS Fundamental Paramedic Medical Principles Patient Assessment Principles Prehospital Pharmacology Paramedic Respiratory Managemen Paramedic Clinical/Field 1 Advanced Resuscitation Paramedic Cardiology 1	20 credits 2 4 3 t 2 4 3 1 2 2 2 4 3 1 2
Term 10531919 10531920 10531921 10531922 10531923 10531956 10531957 10531958	Paramedic Medical Emergencies Paramedic Trauma Special Patient Populations EMS Operations Paramedic Capstone Paramedic Cardiology 2 Paramedic Field Experience Paramedic Field Leadership	18 credits 4 3 1 1 2 3 1 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. For details, go to **mstc.edu/classfinder**.

NOTES:

Advanced Resuscitation

10531918.....1 credit By teaching advanced cardiac life support (ACLS) and pediatric advanced life support (PALS) methodologies and protocols, this course prepares the paramedic student to integrate comprehensive knowledge of causes and pathophysiology into the management of shock, respiratory failure, respiratory arrest, cardiac arrest, and peri-arrest states. Emphasizes early intervention to prevent respiratory and/or cardiac arrest if possible.

Prerequisite: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311

EMS Fundamental

105319112 credits

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. Students obtain fundamental knowledge of public health principles and epidemiology as related to public health emergencies, health promotion, and illness/ injury prevention. Introduces students to comprehensive anatomical and medical terminology and abbreviations with the aim of fostering the development of effective written and oral communications with colleagues and other healthcare professionals.

Prerequisites: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311 and Wisconsin Emergency Medical Technician (or higher) license

EMS Operations

10531922.....1 credit

Provides paramedic students with the knowledge of operational roles and responsibilities to ensure patient, public, and EMS personnel safety.

Prerequisite: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311

Paramedic Capstone

10531923.....**1 credit** Provides students 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 program 105311 or EMT-Paramedic program 315311

Paramedic Cardiology 1

10531955.....**2 credits** Provides basic knowledge to integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment for the patient with cardiovascular disease.

Prerequisite: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311

Paramedic Cardiology 2

10531956.....**2 credits** Teaches the paramedic student knowledge and skills 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 variety of cardiovascular complaints. *Prerequisite: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311*

Paramedic Clinical/Field 1

10531917.....3 credits Enhances student learning through the practice of paramedicine in field and healthcare environment experiences with actual patients under the supervision of instructors or approved preceptors. Students may also have the opportunity to participate informal high-fidelity human patient simulator experiences as a part of this course. *Prerequisites: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311, Advanced Prehospital Pharmacology 10531914, and a current Wisconsin license at the Emergency Medical Technician (or higher) level*

Paramedic Field Experience

10531957.....**3 credits** Provides the opportunity to enhance learning through the practice of paramedicine in a field environment and through 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 program 105311 or EMT-Paramedic program 315311*

Paramedic Field Leadership

10531958.....**1 credit** Provides the opportunity to act as the field team leader in a field environment and through experiences with actual patients under the supervision of instructors or approved preceptors. Successful completion of this course requires the student to meet all team leader competency requirements at the paramedic level as defined by WI DHS EMS and the COAEMSP.

Prerequisite: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311

Paramedic Medical Emergencies

10531919......4 credits 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 program 105311 or EMT-Paramedic program 315311

Paramedic Medical Principles

10531912.....**4 credits** 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 program 105311 or EMT-Paramedic program 315311

Paramedic Respiratory Management

10531915.....**2 credits** 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. Also provides specific knowledge pertaining to the respiratory system 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 program 105311 or EMT-Paramedic program 315311

Paramedic Trauma

10531920.....3 credits 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 program 105311 or EMT-Paramedic program 315311

Patient Assessment Principles

10531913.....**3 credits** Teaches the paramedic student to integrate scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression. Uses a structured and organized assessment process that draws on knowledge of anatomy, physiology, pathophysiology, life span development, and changes that occur to the human body with time. Using this process students learn to develop a list of differential diagnoses through clinical reasoning and modify the assessment as necessary to formulate a treatment plan for their patients. *Prerequisite: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311*

Prehospital Pharmacology

10531914**3 credits** 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 program 105311 or EMT-Paramedic program 315311

Special Patient Populations

10531921.....**3 credits** 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. Also includes gynecological emergencies, along with special considerations in trauma. *Prerequisite: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311*



entrepreneurship

Technical Diploma Program Code: 31-145-2 Total Credits: 30

Mid-State's Entrepreneurship program prepares students to provide the vision for their created business as well as lead staff management, financial planning, marketing strategies, HR functions, and the development of policies and procedures. Graduates will also be equipped to integrate their knowledge and skills within existing organizations. Through a wide variety of activities, students will explore vital components of entrepreneurial practices such as business plan development, financial principles, staffing needs and support, modern marketing strategies, and effective communication skills—all to successfully start and sustain their own business.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:	
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

Other:



ADAMS CAMPUS 401 North Main Adams, WI 53910



MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



Capella University, Business Management (BS)

Herzing University, Business Management (BS)

Lakeland University, **Business Administration-**Management Emphasis (BA)

University of Phoenix, Management (BS)

UW-Oshkosh, Human Services Leadership (BS)

UW-Oshkosh, Organizational Studies emphasis of Leadership and **Organizational Studies (BAS)**

UW-Stevens Point, Management (BS)

For more information and additional opportunities, visit mstc.edu/transfer.

ENTREPRENEURSHIP

TECHNICAL

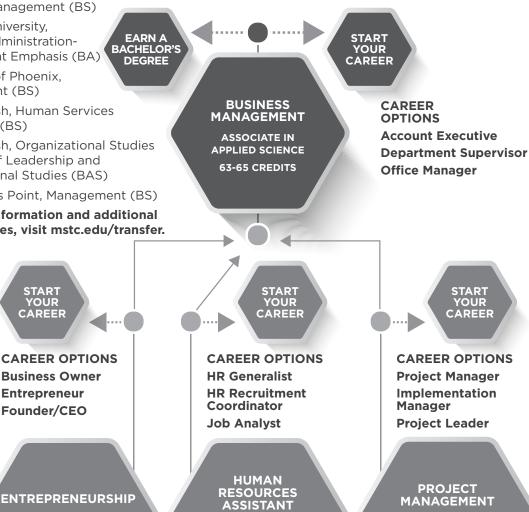
DIPLOMA

30 CREDITS

HIGH

SCHOOL

STUDENT



MANAGEMENT TECHNICAL DIPLOMA 24 CREDITS

OTHER OPTIONS

RELATED PROGRAMS

College Credit • Dual Credit Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.

RETURNING

ADULT

BEGIN AT ANY POINT IN THE PATHWAY

TECHNICAL

DIPLOMA

27 CREDITS

COLLEGE

TRANSFER

 Administrative Professional Customer Relationship Professional

- Leadership Development
- Office Support Specialist

PROGRAM OUTCOMES

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

- Plan the operations of a business across functional areas.
- Control business processes.

TECHNICAL SKILLS ATTAINMENT

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. Students will complete a performance-based business plan in the Entrepreneurial Management course to fulfill the TSA requirement.

NOTES:

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Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

108381042 credits Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10102101 10102121 10103106 10104102	Intro to Business Finance and Budgeting Microsoft Office-Introduction Marketing Principles	15 credits 3 3 3 3 3
10196193	Human Resource Management	3
Term 10102104 10102110 10102131 10801136 10801198	Business Law Employment Law Entrepreneurial Management English Composition 1 Speech	15 credits 3 3 3 3 3 3 3
	Tota	al credits 30

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10102101 10103106 10104102	Intro to Business Microsoft Office-Introduction Marketing Principles	9 credits 3 3 3
Term 10102104 10102110 10801136	Business Law Employment Law English Composition 1	9 credits 3 3 3
Term 10102121 10196193 10801198	Finance and Budgeting Human Resource Management Speech	9 credits 3 3 3
Term 10102131	Entrepreneurial Management	3 credits 3
	Tota	l credits 30

NOTES:

Business Law

10102104.....**3 credits** Introduces 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.

Employment Law

10102110.....**3 credits** Introduces a broad scope of employment laws and provides the opportunity to apply these laws to the employment arena. Includes 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 ACA; and unemployment and worker's compensation insurance.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Entrepreneurial Management

10102131.....**3 credits** Introduces students to the concept of entrepreneurship. Learners study entrepreneurial practices primarily by developing a business plan for a venture of their choice. This includes comparing ways of going into business as well as developing marketing, legal, financial, products/ services, management, and operations plans 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.

Finance and Budgeting

10102121.....**3 credits** For the nonfinancial manager, this course introduces the language of accounting, finance, and budgeting. Provides an overview of the use and analysis of financial statements. Business planning and the foundations and development of budgets are explored. Business financing basics and the securing of necessary financing for a business are covered. Practical application of financial statement creation and analysis, budgetary activities, and finance calculations are included.

Human Resource Management

10196193.....3 credits Applies skills and tools necessary to perform human resource functions in an organization. Each learner demonstrates 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.

Intro to Business

10102101......3 credits 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.

Marketing Principles

10104102.....**3 credits** This course serves as an introduction to the fundamental marketing concepts used to apply marketing strategies to product development, distribution, pricing, and promotion of goods and services.

Microsoft Office-Introduction

10103106.....**3 credits** Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, PowerPoint, and Outlook) while reinforcing the students' knowledge of computer concepts, Windows Explorer, and web usage. Students should possess basic keyboarding, mouse and Windows 10 skills. Students may develop these skills in the LiNK while concurrently enrolled in this course.

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*



farm business & production management

Technical Diploma Program Code: 30-090-1 Total Credits: 19

Mid-State's Farm Business & Production Management program teaches the skills needed to be competitive in agriculture and maximize profits. You'll learn how to identify your farm's strengths and weaknesses, analyze farm records to uncover hidden opportunities, apply proven marketing techniques, and more. Classes are offered fall and winter and include instruction in the classroom, on the farm, and via group tours. Topics include crop production, soil management, and financial planning and analysis as well as the feeding, breeding, and management of livestock.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s)
 Form(s): _______
- Follow-Up Appointment:

Where:	
When:	

Other:_____



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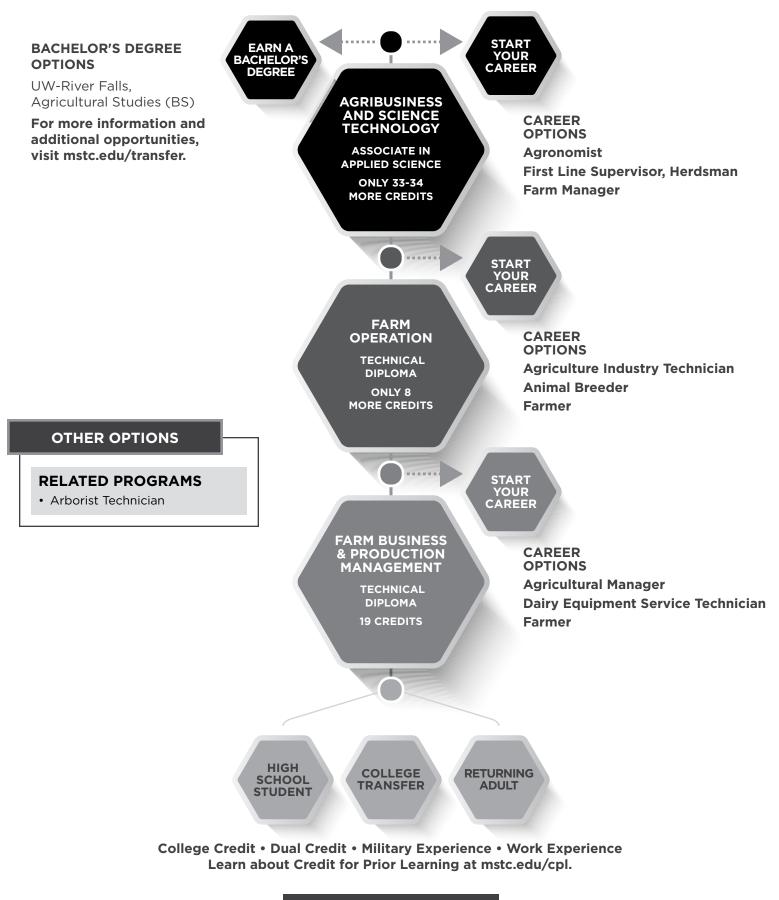
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career pathway





PROGRAM OUTCOMES

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

- Utilize agronomic resources for optimal farm production.
- Evaluate livestock management plans.
- Plan for operation and maintenance of facilities and equipment.
- Create a farm business plan.
- Apply marketing principles to agricultural enterprises.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

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.

The Farm Business & Production Management program runs from August through July annually. Courses in the program are offered at Mid-State's campuses in Adams, Marshfield, Stevens Point, and Wisconsin Rapids.

TECHNICAL STANDARDS

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

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term		19 credits
10080105	Intro to Soil Science	3
10080140	Farm Financial Analysis	3
10090101	Agriculture Business Management	3
10091102	Intro to Animal Science	3
10091103	Animal Nutrition	4
10093104	Principles of Crop Management	3

Total credits 19

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10080105 10091102	Intro to Soil Science Intro to Animal Science	6 credits 3 3
	Animal Nutrition Principles of Crop Management	7 credits 4 3
Term 10080140 10090101	Farm Financial Analysis Agriculture Business Management	6 credits 3 3
	Total	credits 19

course descriptions

Agriculture Business Management

10090101.....3 credits Examines the farm business as a complex set of enterprises that all need to be managed effectively to be successful and sustainable. Students learn to develop a business plan, set short- and long-term goals, identify and implement alternatives for reaching goals. Includes strategies and tools to monitor success. Students also learn to organize and maintain farm business records as well as how to interpret and analyze the records to make sound farm management decisions.

Animal Nutrition

10091103.....**4 credits** Students demonstrate how to formulate and balance rations for several species of livestock. Includes knowledge of the nutritional needs of various species and ability to identify different feedstuffs. Students become familiar with the laws and regulations on livestock feeding along with reading, interpreting, and making recommendations from feed test reports/tags. They are also able to successfully understand the digestive systems of mono-gastric and ruminant animals. *Prerequisite: Intro to Animal Science 10091102 or consent of an instructor*

Farm Financial Analysis

10080140.....**3 credits** This course provides the student opportunities to develop necessary business skills for operating a successful farm business. These skills involve analyzing, evaluating, creating and decision-making. These skills will be used with balance sheets, Income & Expense projections, cash flow needs, budget creation, benchmarking, cost of production, inventories, credit needs and history along with loan decisions.

Intro to Animal Science

10091102.....**3 credits** Introduces the basics of livestock management. Examines management of dairy, beef, sheep, and other common livestock with concentration on nutrition, feedstuff's classification, reproduction, genetics, animal behavior, animal health, and sustainable agriculture practices. Includes basic husbandry and care procedures for animals. A livestock management plan will be created and analyzed.

Intro to Soil Science

10080105.....**3 credits** Designed to provide students with fundamental knowledge of soil and soil composition. Includes study of soil types, formation factors, physical properties, biological properties, and basic soil chemistry. Units covering tillage, conservation, pH, soil management, plant nutrients, and fertilizer sources are also included. Students gain the skills required to interpret soil test reports and soil survey maps and recognize qualities of various soil types. Students perform soil sampling, residue measurements, compaction assessments, and soil loss determinations per crop rotation guidelines. A nutrient management plan is created and analyzed.

Principles of Crop Management

10093104.....**3 credits** The basic principles and concepts of sound agronomic practices are discussed for corn, soybeans, small grains, and forage crops grown in Wisconsin. All sound agronomy practices are emphasized for each crop area as it relates to cultural and other specific inputs of crop production, environmental factors, and sustainable systems.



farm operation

Technical Diploma Program Code: 31-080-4 Total Credits: 27

The Farm Operation program at Mid-State prepares graduates to confidently run the day-to-day operations on a farm. You'll learn about livestock and their products, livestock diseases and prevention, quality milk and meat production, soils, crop production, and more. This hands-on program features agribusiness professionals who share their knowledge directly through presentations, demonstrations, and tours. Course topics include best practices for farming, such as how to manage farm records, farm computerization, critical facts about financial credit, creating a business plan, and marketing.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s)
- Form(s): ____
- Follow-Up Appointment:
 Where: ______

When:

- With:___
- Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

Other: _____

mstc.edu 888.575.6782

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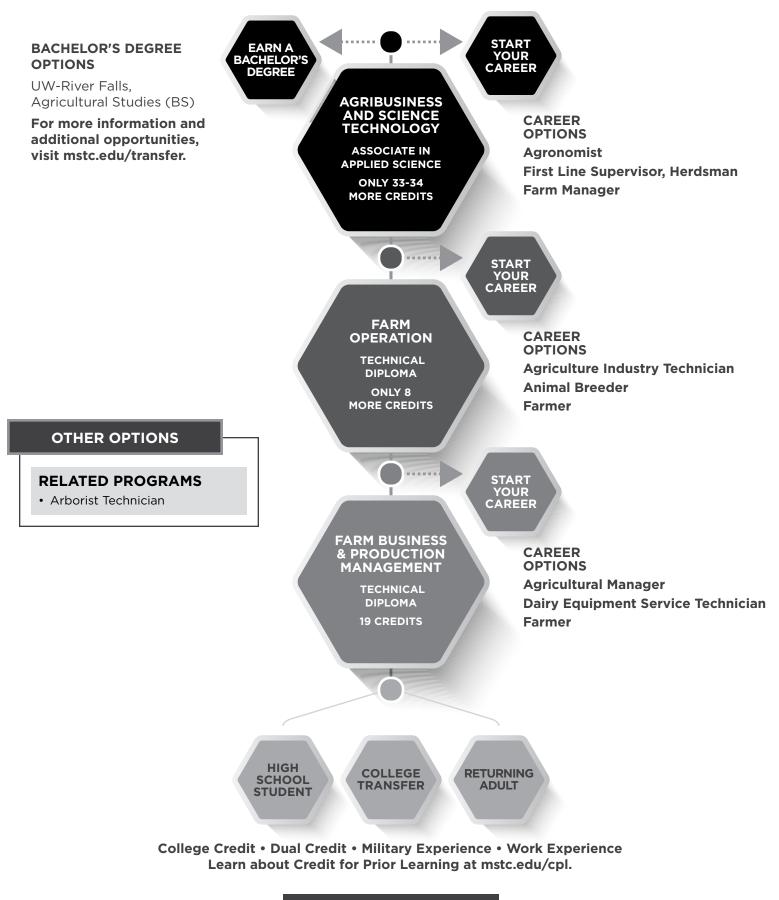
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career pathway





PROGRAM OUTCOMES

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

- Utilize agronomic resources for optimal farm production.
- Evaluate livestock management plans.
- Plan for operation and maintenance of facilities and equipment.
- Create a farm business plan.
- Apply marketing principles to agricultural enterprises.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

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

Farm Operation is a 30-week program and takes a minimum of two years to complete. The program is offered in two 15-week segments with start dates in September, November, January, and February. Each segment is broken into three five-week terms, running from September to April every school year. Classes are scheduled from 10:00 a.m. – 3:00 p.m., allowing time to complete morning and evening farm work at home.

TECHNICAL STANDARDS

A list of specific physical, emotional, and mental tasks needed to function in farm operations is available in the Student Services & Information Center. It is the student's responsibility to notify the Disability Services coordinator in the Student Services & Information Center to receive assistance.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE CURRICULUM OPTION

Term 10080105 10091102	Intro to Soil Science Intro to Animal Science	6 credits 3 3
	Animal Nutrition Intro to Precision Agriculture	7 credits 4 3
Term 10090101 10093104	Agriculture Business Management Principles of Crop Management	6 credits 3 3
Term 10003101 10006101 10006102	Agricultural Diesel Engine Systems Agricultural Computations Agribusiness Equipment & Facilities	8 credits 3 3 2
	Total	credits 27

NOTES:

Please Note:

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- Program completion time may vary based on student scheduling and course availability. For details, go to **mstc.edu/classfinder**.

Agribusiness Equipment & Facilities

10006102.....**2 credits** Examines arrangement and design of efficient farm buildings and equipment as well as construction requirements. Farmstead planning includes mapping of present facilities as well as evaluating usefulness and planning long and short-range goals for farmstead changes to improve economics, safety, efficiency and aesthetics. Environmental factors and animal wellness needs are identified, including space, ventilation, nutrition, and care. Also examines the appropriate use and care of feed, fertilizer, planting and harvesting equipment, and dairy and livestock equipment and facilities. Possible equipment/facility changes are discussed and business expansion is analyzed.

Agricultural Computations

10006101.....3 credits Deals with the application of quantitative tools to support agribusiness management decisions. These management decisions are executed using spreadsheet and data analysis (e.g., Microsoft Excel) while using elementary mathematical tools in an agricultural economics context. This course is designed to prepare students for upper-level agribusiness courses as well as real-world situations in agriculture.

Agricultural Diesel Engine Systems

10003101.....3 credits Students learn the different uses of diesel engines in an agricultural setting. This course also provides an introduction to fuel systems, exhaust systems, and electrical systems. Use of technical service resources and precision measuring is stressed.

Agriculture Business Management

10090101.....3 credits Examines the farm business as a complex set of enterprises that all need to be managed effectively to be successful and sustainable. Students learn to develop a business plan, set short- and long-term goals, identify and implement alternatives for reaching goals. Includes strategies and tools to monitor success. Students also learn to organize and maintain farm business records as well as how to interpret and analyze the records to make sound farm management decisions.

Animal Nutrition

10091103.....**4 credits** Students demonstrate how to formulate and balance rations for several species of livestock. Includes knowledge of the nutritional needs of various species and ability to identify different feedstuffs. Students become familiar with the laws and regulations on livestock feeding along with reading, interpreting, and making recommendations from feed test reports/tags. They are also able to successfully understand the digestive systems of mono-gastric and ruminant animals. *Prerequisite: Intro to Animal Science 10091102 or consent of an instructor*

Intro to Animal Science

10091102.....**3 credits** Introduces the basics of livestock management. Examines management of dairy, beef, sheep, and other common livestock with concentration on nutrition, feedstuff's classification, reproduction, genetics, animal behavior, animal health, and sustainable agriculture practices. Includes basic husbandry and care procedures for animals. A livestock management plan will be created and analyzed.

Intro to Precision Agriculture

10093102**3 credits** Explores agricultural applications of GPS, yield monitoring systems, and mapping. Students learn to interpret maps generated by precision agriculture equipment. Learners experience setup, calibration and operation of equipment/ software designed to support the production crop industry.

Intro to Soil Science

10080105.....**3 credits** Designed to provide students with fundamental knowledge of soil and soil composition. Includes study of soil types, formation factors, physical properties, biological properties, and basic soil chemistry. Units covering tillage, conservation, pH, soil management, plant nutrients, and fertilizer sources are also included. Students gain the skills required to interpret soil test reports and soil survey maps and recognize qualities of various soil types. Students perform soil sampling, residue measurements, compaction assessments, and soil loss determinations per crop rotation guidelines. A nutrient management plan is created and analyzed.

Principles of Crop Management

10093104.....**3 credits** The basic principles and concepts of sound agronomic practices are discussed for corn, soybeans, small grains, and forage crops grown in Wisconsin. All sound agronomy practices are emphasized for each crop area as it relates to cultural and other specific inputs of crop production, environmental factors, and sustainable systems.



fire protection technician

Associate in Applied Science (AAS) Program Code: 10-503-2 Total Credits: 64

Firefighters are known for taking quick action and performing under pressure, and Mid-State's Fire Protection Technician program prepares students to be successful in this challenging role. Graduates learn the knowledge and techniques needed to save life and property during fires, medical emergencies, and other hazards. This program will expose you to realistic simulations, inside and outside the classroom. You will train on our state-of-the-art burn tower, fire engines, and other high-tech equipment. Developed in partnership with local fire departments, this program ensures you have a competitive edge when starting your career, and local demand for highly skilled firefighters is rising.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

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CHECKLIST:

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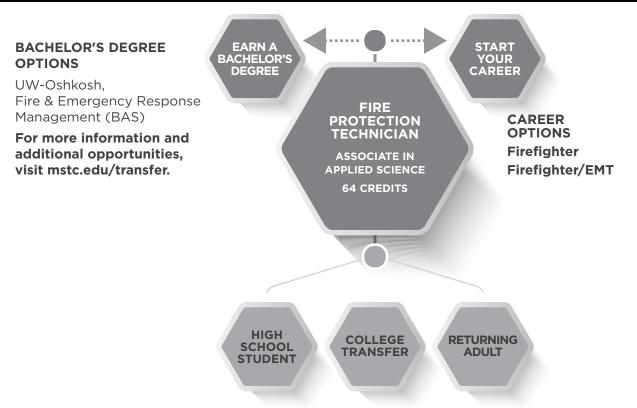
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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Corrections & Community Advocacy
- Criminal Justice-Law
 Enforcement 720 Academy
- Criminal Justice-Studies
- Emergency Medical Technician
- Emergency Services
 Management
- EMT-Paramedic
- Paramedic Technician

PROGRAM OUTCOMES

Employers will expect you, as a Fire Protection Technician graduate, to be able to:

- Demonstrate professional conduct by displaying personal code of ethics, positive work ethic, flexibility, teamwork skills, physical fitness, safe procedures, and sensitivity to diverse cultures and individuals.
- Perform fire prevention activities, including pre-planning, public education, inspection, and investigation.
- Apply incident management skills to emergency incidents.
- Meet professional fire and EMS credentialing standards.
- Communicate clearly and effectively both verbally and through written documentation with clients, coworkers, other agencies, and supervisors.
- Apply critical thinking skills to both emergency and non-emergency situations.

PROGRAM PROGRESSION

Students must receive a grade of "C" or better in each of the technical and general education courses in order to qualify for graduation.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

TECHNICAL STANDARDS

A list of specific physical, emotional, and mental tasks needed to function as a fire protection technician is available at **mstc.edu/programs/fire-protection-technician**. Contact the Disability Services coordinator in the Student Services & Information Center to receive assistance.

STUDENT HANDBOOK

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GRADUATION REQUIREMENT

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GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

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10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

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10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109.....**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10503143 10503191 10503192 10531940 10801136 10804107	Principles of Emergency Services Principles of Emergency Services Safety and Survival	S 32 333 3333
Term 10503142 10503153 10503195 10531941 10806134 10809198	Hazardous Materials Awareness & Operations Fire Behavior & Combustion EMT Applications General Chemistry	s 4 1 3 2 4 3
Term 10503104 10503107 10503112 10503151 10809166	Firefighter Capstone Advanced Firefighting Practices Fire Prevention	s 3 2 3 4 3
Term 10503101 10503108 10503111 10503193 10801197	Firefighter Health and Fitness	s 4 2 3 3 3
	Total credits 6	4
Please Note:		

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10531940 10503191 10801136	EMT Foundations Principles of Emergency Services English Composition 1	8 credits 3 2 3
Term 10531941 10804107 10806134	EMT Applications College Mathematics General Chemistry	9 credits 2 3 4
Term 10503143 10503192	Building Construction for Fire Protec Principles of Emergency Services Safety and Survival	6 credits ction 3 3
Term 10809198 10503142 10503153	Intro to Psychology Firefighting Principles Hazardous Materials Awareness & Op	8 credits 3 4 erations 1
Term 10503104 10503112 10809166	Hazardous Materials Technician Advanced Firefighting Practices Intro to Ethics: Theory & Application	9 credits 3 3 3
Term 10503101 10503107 10503195	Technical Rescue Principles Firefighter Capstone Fire Behavior & Combustion	9 credits 4 2 3
Term 10503108 10503151 10801197	Firefighter Health and Fitness Fire Prevention Technical Reporting	9 credits 2 4 3
Term 10503111	Driver/Operator - Pumper Fire Protection Systems	6 credits 3 3
	Total	credits 64

course descriptions

Advanced Firefighting Practices

10503112.....**3 credits** Explores advanced firefighting skills, focusing on communications, investigations, and other advanced firefighting techniques. Fulfills the job performance requirements for Wisconsin Firefighter 2 certification eligibility. *Prerequisite: Firefighting Principles 10503142*

Building Construction for Fire Protection

10503143.....3 credits Provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, pre-planning fire operations, and operating at emergencies.

Prerequisite: Admission to Fire Protection Technician program 105032 or Emergency Services Management program 105035

College Mathematics

108041073 credits 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 and 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 US and metric systems, applying Pythagorean Theorem, solving right and obligue triangles, calculating probabilities, organizing data and interpreting charts, calculating central and spread measures, and summarizing and analyzing data.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Driver/Operator - Pumper

10503111.....**3 credits** Provides instruction and opportunity to understand and put into practice basic defensive driving techniques. This course meets the requirements of NFPA 1002, Standard for Fire Apparatus Driver/Operator Professional Qualifications, Driver/ Operator – Pumper Job Performance Requirements (JPRs). *Prerequisite: Firefighting Principles 10503142*

EMT Applications

10531941.....2 credits Course covers the bulk of the Emergency Medical Technician certification course to include the handling of cervical and spine injuries, burn injuries, heart- and breathing-related problems, shock, and other trauma injuries. Includes several lab days to practice and perfect skills, clinical time, and extensive hands-on activities. Prepares students for national certification testing for EMT. To maintain National Registry certification eligibility this course must be finished the semester following the completion of EMT Foundations. *Prerequisite: EMT Foundations 10531940*

EMT Foundations

105319403 credits

Covers the basics of the Emergency Medical Technician certification course to include CPR, airways, anatomy, hazmat response requirements, lifting and moving patients, incident command, and other technical information. It is the first part of a two-course system to prepare students for national certification testing for EMT.

Prerequisite: Admission to Paramedic Technician program 105311 OR Emergency Medical Technician program 305313 OR Fire Protection Technician program 105032

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Fire Behavior & Combustion

10503195.....3 credits Explores the theories and fundamentals of how and why fires start, spread, and are controlled.

Prerequisite: Building Construction for Fire Protection 10503143 or Intro to Emergency Services 10503102

Fire Prevention

10503151.....**4 credits** Provides fundamental knowledge relating to the field of fire prevention. Topics include history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use and application of codes and standards, plans review, fire inspections, fire and life safety education, and fire investigation.

Prerequisite: Firefighting Principles 10503142

Fire Protection Systems

10503193.....3 credits Provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection, and portable fire extinguishers. *Prerequisite: Firefighting Principles 10503142*

Firefighter Capstone

10503107.....**2 credits** Prepares the learner for a career in the fire service through an applied research project or an internship. Learners will apply for an internship if they are interested; however, final determination for acceptance into an internship is dependent on department acceptance of the learner. If an internship is not desired or not made available the learner will work with faculty to develop an applied research project. *Prerequisites: Firefighting Principles 10503142 and Hazardous Materials Awareness & Operations 10503153*

Firefighter Health and Fitness

105031082 credits Prepares the learner for the physical requirements that are necessary for success as a firefighter. Focuses on preparation for the Firefighter Candidate Physical Ability Test (CPAT). Learners will also explore the concepts of wellness in areas such as diet, stress management, and perspective.

Firefighting Principles

10503142...... 4 credits

Describes basic fire behavior, techniques used to control structural and related fire emergencies, and life safety practices. Students perform all practical evolutions necessary to control and extinguish fires and otherwise meet all requirements for Firefighter I certification in the State of Wisconsin.

Prerequisite: Admission to Fire Protection Technician program 105032

General Chemistry

10806134 4 credits Covers the fundamentals of chemistry. Topics include the metric system; problem solving; periodic relationships; chemical reactions, chemical equilibrium; properties of water; acids, bases, and salts; and gas laws. High School GPA of 3.0 or Accuplacer QAS of 246 or ACT of 19, and College Mathematics 10804107 with a "C" or better, or Intermediate Algebra with Applications 10804118 with a "C" or better. Students are encouraged to bring transcripts for

further evaluation if they do not meet these requirements.

Hazardous Materials Awareness & Operations

10503153.....1 credit Examines characteristics relating to hazardous materials, including problems of recognition and mitigation. Prepares students to advance toward the Hazardous Materials Technician Level.

Corequisite: Firefighting Principles 10503142

Hazardous Materials Technician

10503104.....**3 credits** Prepares learners to operate on a hazardous materials response team. Provides the essential knowledge, skills, and abilities to operate offensively or defensively at an incident involving the release of hazardous materials. Prepares learners to identify known and unknown material by using field survey instruments and equipment; to select and use the proper chemical protective equipment; to understand hazard and risk assessment techniques for hazmat environments; to be able to perform advanced control, containment, and/or confinement operations using resources and personal protective equipment available; and to develop action plans.

Prerequisite: Hazardous Materials Awareness & Operations 10503153

Intro to Ethics: Theory & Application

10809166.....**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Principles of Emergency Services

10503191.....**2 credits** Introduces the student to the organization and management of a fire and emergency services department and the relationship of government agencies to the fire service. Emphasizes fire and emergency service, ethics, and leadership from the perspective of the company officer. *Prerequisite: Admission to Fire Protection Technician program 105032*

national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services.

Prerequisite: Admission to Fire Protection Technician program 105032

Technical Reporting

10801197.....**3 credits** 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: English Composition I 10801136 with a grade of "C" or better or Written Communication 10801195 with a grade of "C" or better. Proficiency in word processing skills recommended.*

Technical Rescue Principles

10503101.....**4 credits** Exposes students to labor-intensive requirements in team-based technical rescue. Students are trained in auto extrication and technician-level rope rescue and confined space rescue.

Prerequisite: Firefighting Principles 10503142



health & wellness promotion

Associate in Applied Science (AAS) Program Code: 10-546-2 Total Credits: 60-61

Mid-State's Health & Wellness Promotion graduates possess a strong foundation in health and wellness concepts across the lifespan. They have the knowledge and skills needed to develop and implement health and wellness promotion activities that seek to maximize quality of life and reduce or prevent illness and injury. The program will prepare you to support individuals, organizations, and communities with health and wellness initiatives. You will also learn to design, develop, and promote wellness programs and initiatives through a variety of educational campaigns, promotion concepts, and modification interventions. Mid-State is the only college in the Wisconsin Technical College System to offer this online program.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where: _

With:

When:

Official Transcripts

Mid-State Technical College

Student Services Assistant

1001 Centerpoint Drive

Stevens Point, WI 54481

Criminal Background Statement of Understanding and Release of Information Form

Other:

mstc.edu 888.575.6782

> ADAMS CAMPUS 401 North Main Adams, WI 53910



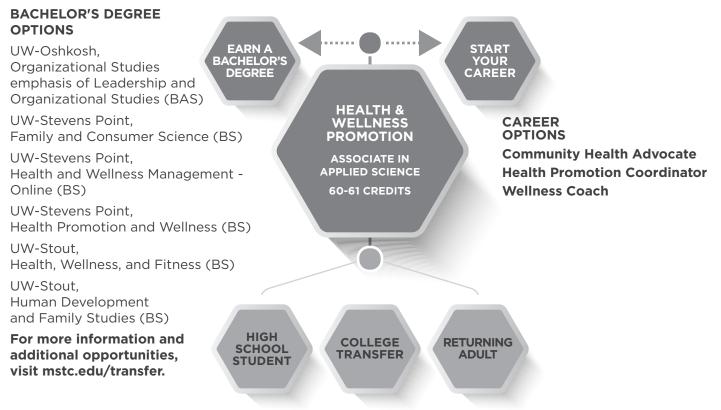
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Central Service Technician
- Health Information Management
- Medical Assistant
- Medical Coder
- Nursing
- Nursing Assistant
- Pharmacy Services Management
- Pharmacy Technician
- Phlebotomy Technician
- Respiratory Therapy
- Surgical Technologist

PROGRAM OUTCOMES

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

- Provide evidence-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.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

ADDITIONAL ENTRY CRITERIA

To apply to the Health & Wellness Promotion program, please submit the following documents to Mid-State Admissions:

• Criminal Background Statement of Understanding and Release of Information form.

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

TECHNICAL STANDARDS

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-wellnesspromotion**. Contact the Disability Services coordinator in the Student Services & Information Center to receive assistance.

PRACTICUM-RELATED REQUIREMENTS

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

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

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. Mid-State will make two attempts to place a student in an appropriate practicum experience. If Mid-State 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.

PROGRAM PROGRESSION AND COMPLETION

In order to maintain a passing status and progress in 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 of courses. Students may be required to apply for program re-entry in order to repeat courses within the program's instructional area.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

108381042 credits Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10544103	Healthy Aging	its 3
10544103 10546100 10801136 10809196 10809198	Essential Concepts for Health and Wellness English Composition 1 Intro to Sociology Intro to Psychology	3 3 3 3 3 3 3
Term	15-16 cred	its
10546101	Nutrition for Healthy Living	3
10546102	Behavior Change for Wellness	3
10546108	Group Fitness Instruction	3
10801196 10801198	Oral/Interpersonal Communication -or- Speech	3
10806177	General Anatomy & Physiology	4
	-or-	
10806189	Basic Anatomy	3
Term	15 cred	its
10102101	Intro to Business	3
10546103	Principles of Physical Conditioning	3
10546104	Population Health & Wellness	3 3 3
10546109	Youth Wellness	3 3
10546110	Mental Wellness and Stress Management	3
Term	15 cred	its
10103123	Excel-Beginning	1
10546107	Health Coaching for the	_
10546105	Wellness Professional Program Development, Implementation,	3
10546105	& Evaluation	3
10546106	Health & Wellness Practicum	2
10546111	Wellness Marketing and Entrepreneurship	3
10809166	Intro to Ethics: Theory and Application -or-	
10809172	Introduction to Diversity Studies	3
	Total credits 60	-61

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10546100 10801136	6 creditsEssential Concepts for Health and Wellness3English Composition 13	
Term 10809166 10809172 10809198	6 creditsIntro to Ethics: Theory and Application -or-Introduction to Diversity Studies3Intro to Psychology3	
Term 10546101 10801196 10801198 10809196	9 creditsNutrition for Healthy Living3Oral/Interpersonal Communication -or-3Speech3Intro to Sociology3	
Term 10103123 10806177	7-8 credits Excel-Beginning1General Anatomy & Physiology4-or	
10806189 10544103	Basic Anatomy3Healthy Aging3	
Term 10102101 10546103 10546108	9 creditsIntro to Business3Principles of Physical Conditioning3Group Fitness Instruction3	
Term 10546102 10546111	6 creditsBehavior Change for Wellness3Wellness Marketing and Entrepreneurship3	
Term 10546109 10546110 10546104	9 creditsYouth Wellness3Mental Wellness and Stress Management3Population Health & Wellness3	
Term 10546107	8 credits Health Coaching for the	
10546105 10546106	Wellness Professional3Program Development, Implementation, & Evaluation3Health & Wellness Practicum2	
Total credits 60-61		

Basic Anatomy

10806189**3 credits** Examines concepts of anatomy and physiology as they relate to health careers. Learners correlate anatomical and physiological terminology to all body systems.

Behavior Change for Wellness

10546102.....**3 credits** Examines the importance of understanding the theory of behavior change to assist others in overcoming barriers so they may achieve sustainable behavior change. Refines a beginning skill set including how to advise individuals on goal setting, strategy planning, and encouraging maintenance of health and wellness goals. *Corequisite: Essential Concepts for Health and Wellness 10546100*

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Essential Concepts for Health and Wellness 10546100......3 credits

This class introduces the student to basic health and wellness promotion principles at the individual level including the six dimensions of wellness, determinants of health and behavior change theory. Students explore a holistic view of health and wellness concepts covering healthy lifestyle choices, managing stress, individual wellness perspective and how economics can positively and negatively impact the health and wellness of an individual.

Excel Beginning

10103123.....1 credit Students learn to create, modify, and format spreadsheets, charts, and graphics. Students also learn to perform calculations and analysis on data.

General Anatomy & Physiology

10806177...... 4 credits 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: High School GPA of 3.0 or Accuplacer Reading Skills of 236 or ACT of 15, or General Chemistry 10806134 with a grade of "C" or better, or General Biology 10806114 with a grade of "C" or better, or Human Body in Health & Disease 10509102 with a "C" or better. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Group Fitness Instruction

10546108.....**3 credits** Provides theoretical knowledge and practical skills in preparation for a national certification exam in group fitness instruction. Topics include guidelines for instructing safe, effective, and purposeful exercise, essentials of the instructor-participant relationship, principles of motivation to encourage adherence in the group fitness setting, effective instructor-to-participant communication techniques, methods for enhancing group leadership, and the group fitness instructor's (GFI's) professional role.

Health & Wellness Practicum

105461062 credits Provides practical experience and the opportunity to apply concepts from previous coursework to help students transition to the role of community health promoter. The practicum location is chosen in collaboration with faculty based on student interest and site availability. Students work closely with an approved preceptor and faculty to accomplish individualized learning goals.

Prerequisites: Essential Concepts for Health & 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

Health Coaching for the Wellness Professional

10546107.....3 credits Builds on the Behavior Change for Wellness class to introduce and practice techniques for lifestyle health coaching. Analyzes the relationships between exercise, nutrition, and weight control and how to effectively and sustainably promote lifelong positive behavior change in individual clients.

Prerequisites: Behavior Change for Wellness 10546102 and Principles of Physical Conditioning 10546103

Healthy Aging

10544103**3 credits** Provides an overview of practices to promote healthy aging. 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.

Intro to Business

10102101......3 credits 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.

Intro to Ethics: Theory & Application

10809166.....**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Sociology

10809196.....**3 credits** Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Diversity Studies

10809172.....3 credits 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Mental Wellness and Stress Management

10546110.....**3 credits** Investigate the underpinnings of mental health and wellness. Explore the risks of stress and emotional management techniques to mitigate these risks by embracing a growth mindset. The learner will be engaged in processes to support the emotional dimension of health and demonstrate ways to implement these practices for oneself and others along their wellness journey.

Nutrition for Healthy Living

10546101.....**3 credits** 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 evidencedbased practice. Students investigate nutrition myth versus fact and explore how policy and environment impact nutritional choice.

Corequisite: Essential Concepts of Health and Wellness 10546100

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are

236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Population Health & Wellness

10546104.....**3 credits** Examines the components and attributes of population health, including economic and policy implications for population-based health promotion activities. Students take a closer look at measures including interventions and programming that support the health of the community. *Corequisite: Essential Concepts of Health and Wellness 10546100*

Principles of Physical Conditioning

10546103**3 credits** Emphasizes quality of life improvement and encouraging others to maximize health and wellness potential through physical conditioning. Explores the effects of physical exercise on body systems and functioning, including specific exercises for balance, endurance, strength, and weight loss. Special populations and considerations are highlighted throughout the course.

Corequisite: Basic Anatomy 108061890

Program Development, Implementation, & Evaluation

course descriptions

10546105**3 credits** Students acquire the skill set to develop, implement, and evaluate a health and wellness promotion project at the individual or community level. Explores components of health and wellness promotion program building, including the needs assessment, marketing principles, role of leadership, continuous quality improvement, economics, and collaborations to ensure success.

Prerequisites: Essential Concepts for Health & Wellness 10546100, Behavior Change for Wellness 10546102, Principles of Physical Conditioning 10546103, and Nutrition for Healthy Living 10546101; Corequisite: Population Health & Wellness 10546104

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Wellness Marketing and Entrepreneurship

10546111.....**3 credits** Explore ways to support entrepreneurship strategies in the wellness market. Learners will investigate way to market themselves as emerging wellness professionals, find their niche market and use social media to attract clients all while exploring the basics of wellness business building. The learner will create a digital platform and a business plan geared toward their unique future wellness professional interests.

Youth Wellness

10546109.....**3 credits** Explore the developmental science which shapes youth wellness as seen through the lens of each of the wellness dimensions. Examining different socioeconomic implications and childhood events will support evidence based resiliency interventions. An exploration of youth community programming and application exercises will support the learner's transition to the health and wellness professional role.



health information management

Associate in Applied Science (AAS) Program Code: 10-530-4 Total Credits: 67-68

Mid-State's Health Information Management program prepares individuals to enter the emerging field of electronic health record management. Students learn to use computer programs and established methods to securely process, compile, maintain, and report electronic health information data for patient care. In this program you'll learn to abstract and code clinical data using classifications systems as well as analyze health records according to industry protocols. You'll build knowledge about reimbursement, facility planning, marketing, risk management, and more. Graduates are eligible to take the AHIMA national certification exam for Registered Health Information Technician (RHIT).

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

W	her	e:

When:

- With: Official Transcripts
 - Mid-State Technical College

Student Services Assistant

1001 Centerpoint Drive

Stevens Point, WI 54481

Criminal Background Statement of Understanding and Release of Information Form

□ Other:_

mstc.edu 888.575.6782

> ADAMS CAMPUS 401 North Main Adams, WI 53910



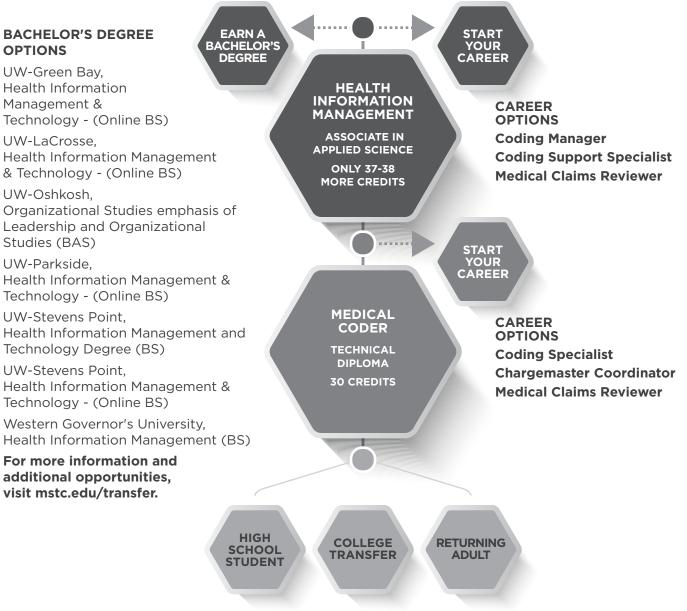
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.

OTHER OPTIONS

RELATED PROGRAMS

- Central Service Technician
- Health & Wellness Promotion
- Medical Assistant
- Nursing
- Nursing Assistant
- Pharmacy Services Management
- Pharmacy Technician
- Phlebotomy Technician
- Respiratory Therapy
- Surgical Technologist

BEGIN AT ANY POINT IN THE PATHWAY

PROGRAM OUTCOMES

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

- Demonstrate professional behaviors and ethics.
- Apply information technology and analytics in data use.
- Apply coding and reimbursement systems.
- Supervise various components of the health information system.
- Apply data governance principles to ensure the quality of health data.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program and will complete a mock RHIT exam to fulfill the TSA requirement for this program.

The Health Information Management accreditor of Mid-State Technical College is the Commission on Accreditation for Health Informatics and Information Management (CAHIIM). The College's accreditation for associate degree in Health Information Management at the Marshfield campus has been reaffirmed through 2023.

Graduates are eligible to take the national certification exam offered the American Health Information Management Association (AHIMA) for the Registered Health Information Technician (RHIT) credential.



ADDITIONAL ENTRY CRITERIA

To apply to the Health Information Management program, please submit the following documents to Mid-State Admissions:

• Criminal Background Statement of Understanding and Release of Information form.

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

TECHNICAL STANDARDS

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

CLINICAL-RELATED REQUIREMENTS

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

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. Mid-State will make two attempts to place a student in an appropriate clinical experience. If Mid-State 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.

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.

A student may repeat the same course only once in the Health Information Management program. If the course is failed a second time, the student will be withdrawn from the Health Information Management program. If a Health Information Management student fails four separate program courses, the student will be withdrawn from the program. Failures will include failing the same course or failing different courses. A withdrawal grade of "W" counts as one attempt for the course.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

NOTES:

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10103106 10501101 10530111 10530125 10801136 10806177	17-18 cred Microsoft Office-Introduction Medical Terminology Introduction to Health Records Organization of Healthcare English Composition 1 General Anatomy & Physiology	its 3 3 2 3 4
10806189	-or- Basic Anatomy	3
Term 10530122 10530144 10530161 10530182 10530197 10801196	17 cred Electronic Health Records CPT Coding Legal Aspects of HIM Human Disease for the Health Professions ICD Diagnosis Coding Oral/Interpersonal Communication -or-	3 3 2 3 3
10801198 Term	Speech 18 cred	3 its
10156101 10530132 10530160	Database Concepts and Design Health Data Analysis Performance Improvement for	3 3
10530166 10804198 10809188	Health Professions Inpatient Procedure Coding Introductory Statistics Developmental Psychology -or-	3 3 3
10809198	Intro to Psychology	3
Term 10530146 10530147 10530163 10530164 10530167 10809166	15 cred Private and Government Reimbursement HIM Advanced Coding Health Information Clinical RHIT Test Prep Management of Health Information Services Intro to Ethics: Theory & Application	its 3 2 1 3 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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term6 cr10501101Medical Terminology10530111Introduction to Health Records	edits 3 3
Term8-9 cr10530125Organization of Healthcare10801136English Composition 110806177General Anatomy & Physiology	edits 2 3 4
-or- 10806189 Basic Anatomy	3
Term6 cr10103106Microsoft Office-Introduction10801196Oral/Interpersonal Communication -or-10801198Speech	edits 3 3
Term2 cr10530161Legal Aspects of HIM	edits 2
Term6 cr10530122Electronic Health Records10530182Human Disease for the Health Professions	edits 3 3
Term6 cr10530197ICD Diagnosis Coding10809166Intro to Ethics: Theory & Application	edits 3 3
Term6 cr10156101Database Concepts and Design10530132Health Data Analysis	edits 3 3
Term9 cm10530144CPT Coding10804198Introductory Statistics10809188Developmental Psychology -or-10809198Intro to Psychology	edits 3 3
	edits
10530160 Performance Improvement for Health Professions10530166 Inpatient Procedure Coding	3 3
Term6 cr10530167Management of Health Information Service10530147HIM Advanced Coding	edits es 3 3
Term6 cm10530146Private and Government Reimbursement10530163Health Information Clinical10530164RHIT Test Prep	edits 3 2 1
Total credits 6	7-68

Basic Anatomy

10806189**3 credits** Examines concepts of anatomy and physiology as they relate to health careers. Learners correlate anatomical and physiological terminology to all body systems.

CPT Coding

105301443 credits

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. Emphasizes accuracy, CPT instructional notations, conventions, rules, and official coding guidelines when assigning CPT codes to case studies and actual medical record documentation. Also covers application of modifiers to services and relationship to financial impact.

Prerequisites: Medical Terminology 10501101, Basic Anatomy 10806189, and Introduction to Health Records 10530111; Corequisite: Human Disease for the Health Professions 10530182

Database Concepts and Design

10156101.....**3 credits** Introduces the concepts of relational database design, development, and maintenance. Topics include relational normalization, referential integrity, and Structured Query Language (SQL).

Corequisite: English Composition 1 10801136

Developmental Psychology

10809188.....**3 credits** Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Electronic Health Records

10530122.....**3 credits** 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, Basic Anatomy 10806189, and Introduction to Health Records 10530111; Corequisite: Human Disease for the Health Professions 10530182

English Composition 1

10801136.....**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

General Anatomy & Physiology

10806177..... 4 credits 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: High School GPA of 3.0 or Accuplacer Reading Skills of 236 or ACT of 15, or General Chemistry 10806134 with a grade of "C" or better, or General Biology 10806114 with a grade of "C" or better, or Human Body in Health & Disease 10509102 with a "C" or better. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Health Data Analysis

10530132.....3 credits Focuses on the collection, computation, analysis, and presentation of healthcare statistical data. Examines data analytics, registries, vital statistics, mandatory reporting, and research.

Prerequisites: Introduction to Health Records 10530111, Organization of Healthcare 10530125, Electronic Health Records 10530122, and Microsoft Office-Introduction 10103106

Health Information Clinical

10530163.....**2 credits** Provides a blend of supervised clinical experience in a healthcare facility with online classroom activities. Students apply skills and knowledge gained from previous courses in the health information management setting. Classroom activity includes discussion of clinical situations. *Prerequisites: Legal Aspects of HIM 10530161, Health Data Analysis 10530132, Performance Improvement for Health Professions 10530146, HIM Advanced Coding 10530147, and Inpatient Procedure Coding 10530166*

HIM Advanced Coding

10530147.....3 credits Builds on basic coding knowledge and skills through the coding of clinical case studies and actual medical records. Students access, review, and code electronic medical records from the virtual lab software; perform data quality reviews to validate code assignment and compliance with reporting requirements; develop appropriate physician queries; and assign diagnosis related groups (DRGs) and ambulatory payment classifications (APCs) with entry-level proficiency using computerized encoding and grouping software.

Prerequisites: ICD Diagnosis Coding 10530197 and CPT Coding 10530144; Corequisites: Private & Government Reimbursement 10530146 and Inpatient Procedure Coding 10530166

Human Disease for the Health Professions

10530182.....3 credits Focuses on the common diseases of each body system as encountered in all types of healthcare settings by health information professionals. Emphasizes understanding the etiology (causes), signs and symptoms, diagnostic tests, and treatment (including pharmacologic) of each disease. *Prerequisites: Medical Terminology 10501101 and Basic Anatomy 10806189*

ICD Diagnosis Coding

10530197.....3 credits 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, Introduction to Health Records 10530111, and Basic Anatomy 10806189; Corequisite: Human Disease for the Health Professions 10530182

Inpatient Procedure Coding

10530166.....3 credits 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, Introduction to Health Records 10530111, Basic Anatomy 10806189, and Human Disease for the Health Professions 10530182

Intro to Ethics: Theory & Application

10809166**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Psychology

108091983 credits

This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Health Records

10530111.....**3 credits** 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 health care 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. Emphasizes accuracy, organization, and confidentiality. Students are introduced to electronic medical record (EMR) concepts.

Corequisite: Medical Terminology 10501101

Introductory Statistics

10804189.....**3 credits** 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: High School GPA of 3.0 or Accuplacer QAS 241 or ACT of 19 or Pre-Algebra 10834109 with a grade of "C" or better or College Math 10804107 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Legal Aspects of HIM

10530161.....**2 credits** Focuses on regulations for the content, access, disclosure, privacy, confidentiality, security, retention, and destruction of health information. Includes an overview of the US legal system.

Corequisite: Electronic Health Records 10530122

Management of Health Information Services

10530167....**3 credits** Examines the principles of management to include planning, organizing, human resource management, directing, and controlling as related to the health information department. *Prerequisites: Organization of Healthcare 10530125, Legal Aspects of HIM 10530161, Health Data Analysis 10530132, and Performance Improvement for the Health Professions 10530160*

Medical Terminology

10501101......3 credits Focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Learners practice formation, analysis, and reconstruction of terms. Emphasizes spelling, definition, and pronunciation. Introduces operative, diagnostic, therapeutic, and symptomatic terminology of all body systems as well as systemic and surgical terminology.

Microsoft Office-Introduction

10103106.....**3 credits** Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, PowerPoint, and Outlook) while reinforcing the students' knowledge of computer concepts, Windows Explorer, and web usage. Students should possess basic keyboarding, mouse and Windows 10 skills. Students may develop these skills in the LiNK while concurrently enrolled in this course.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Organization of Healthcare

10530125.....**2 credits** Examines the organization and delivery of health-care services, external standards, regulations, initiatives, payment and reimbursement systems, and healthcare providers and disciplines.

Corequisite: English Composition 1 10801136

Performance Improvement for Health Professions 105301603 credits

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: Introduction to Health Records 10530111, Organization of Healthcare 10530125, Electronic Health Records 10530122, and Microsoft Office-Introduction 10103106*

Private and Government Reimbursement

10530146**3 credits** Introduces students to the vocabulary of private healthcare and government reimbursement. Students will identify and compare the varieties of private and government healthcare insurance including the advantages and disadvantages of each for the provider and for the policyholder. HIPAA guidelines are utilized throughout.

Prerequisites: ICD Diagnosis Coding 10530197 and CPT Coding 10530144; Corequisite: Inpatient Procedure Coding 10530166

RHIT Test Prep

105301641 credit Explores strategies for preparing for the Registered Health Information Technician (RHIT) examination, including study skills, test-preparation skills, and test- taking skills. Includes a basic review of content related to the examination. *Prerequisites: Legal Aspects of HIM 10530161, Health Data Analysis 10530132, Performance Improvement for Health Professions 10530160, and Inpatient Procedure Coding 10530166; Corequisites: HIM Advanced Coding 10530147 and Private and Government Reimbursement 10530166*

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*



heating, ventilation, and air conditioning (hvac) installer

Technical Diploma Program Code: 31-401-3 Total Credits: 27

Mid-State's Heating, Ventilation, and Air Conditioning (HVAC) Installer program provides the hands-on foundation needed for an entry-level position in the heating, ventilation, air conditioning (HVAC) fields. Graduates will understand the various components of heating, ventilation, air-conditioning, and refrigeration systems, including furnaces, ductwork, boilers, hydronic piping, HRVs (heat recovery ventilators), evaporators, condensers, circuits, and controls. Students will also explore geothermal, biomass, and solar heating systems. Through hands-on classroom lab activities, students will join various piping types, design and construct ductwork, and install a complete residential HVAC system. They will also learn the electrical skills necessary to read wiring diagrams and troubleshoot mechanical control systems. Graduates are prepared to take the EPA 608 Technician Certification exam for refrigerants.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s)
 Form(s):
- Follow-Up Appointment: Where: _____

When

With:

Other:

Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

mstc.edu 888.575.6782

> ADAMS CAMPUS 401 North Main Adams, WI 53910



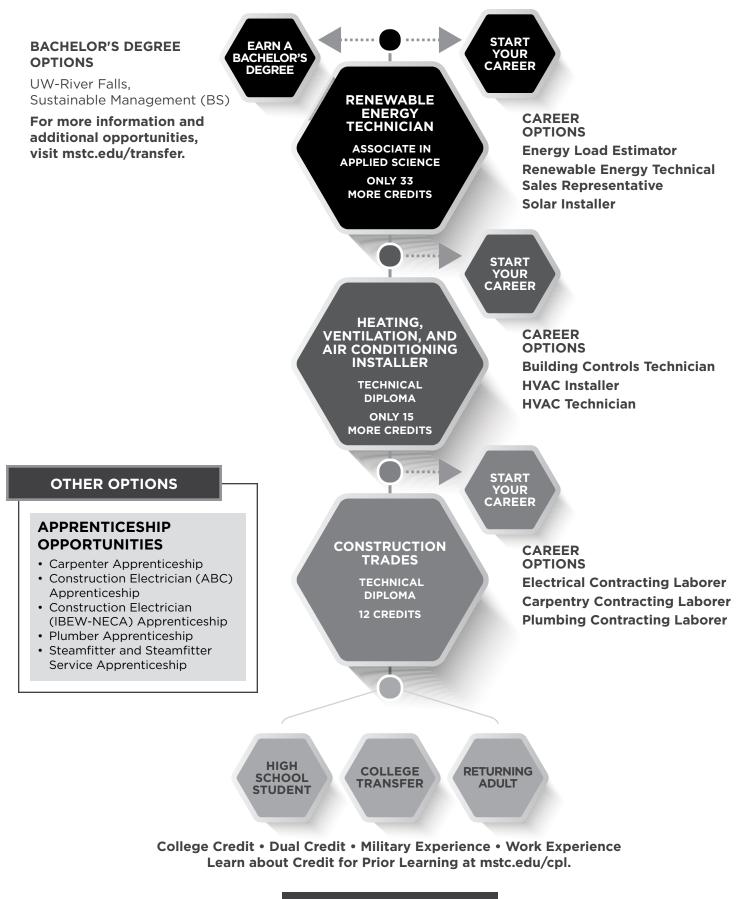
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



BEGIN AT ANY POINT IN THE PATHWAY

PROGRAM OUTCOMES

Employers will expect you, as a Heating, Ventilation, and Air Conditioning (HVAC) Installer graduate, to be able to:

- Join pipes or tubing to equipment and to fuel, water, or refrigerant source to form complete circuit.
- Test pipe or tubing joints or connections for leaks, using pressure gauge or soap-and-water solution.
- Lay out and connect electrical wiring between controls and equipment, according to wiring diagrams, using electrician's hand tools.
- Install, connect, and adjust thermostats, humidistats, and timers using hand tools.
- Test electrical circuits or components for continuity using electrical test equipment.
- Repair or replace defective equipment, components, or wiring.
- Obtain and maintain required certifications.
- Install ductwork and test for leaks.
- · Size and lay out ductwork.
- Comply with all applicable standards, policies, and procedures, including safety procedures and the maintenance of a clean work area.
- Inspect and test systems to verify system compliance with plans and specifications or to detect and locate malfunctions.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term	14 cree	dits
10442117	Welding Fundamentals 1	1
10476170	OSHA 30 for the Construction Trades	2
10482107	Construction Fundamentals	2
10483121	Piping Applications	3
10601110	HVAC Heating Fundamentals	2
10601130	Blueprint Reading for Construction Trades	2
10601140	Electricity for the Construction Trades	2
Term 10483110	Sustainable Heating System	dits
10483110	Sustainable Heating System Design & Installation	3
10483115	Energy Load Estimation and Modeling	3
10483130	Electrical Controls & Systems for Buildings	3
10601120	HVAC Air Conditioning Fundamentals	2
10601121	Intro to HVAC Installation	2
Total credits 27		

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. For details, go to **mstc.edu/classfinder**.

NOTES:

SAMPLE PART-TIME CURRICULUM OPTION

Term	8 crea	dits
10442117	Welding Fundamentals 1	1
10483121	Piping Applications	3
10601110	HVAC Heating Fundamentals	2
10601140	Electricity for the Construction Trades	2
Term	6 crea	dits
10476170	OSHA 30 for the Construction Trades	2
10482107	Construction Fundamentals	2
10601120	HVAC Air Conditioning Fundamentals	2
Term	5 cred	dits
10483115	Energy Load Estimation and Modeling	3
10601130	Blueprint Reading for Construction Trades	2
Term	8 cred	dits
10483110 10483130 10601121	Sustainable Heating System Design & Installation Electrical Controls & Systems for Buildings Intro to HVAC Installation	3 3 2
	Total credits	27

Blueprint Reading for Construction Trades

10601130.....**2 credits** Develops the ability to read blueprints for commercial and non-commercial structures. Emphasizes blueprints drawn by licensed architects, covering plumbing, electrical wiring, structural framing, millwork, interior and exterior details, and basic information.

Construction Fundamentals

10482107.....**2 credits** Studies the concepts associated with the theory, materials, and methods used in construction, including 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. Students also become familiar with blueprint reading and examine all trades associated with construction, including, electrical, HVAC, and plumbing. Safe use of the appropriate tools for each trade is covered.

Electrical Controls & Systems for Buildings

10483130.....3 credits Topics 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. *Corequisite: Electrical Circuits I 10605105 or Intro to Electronics 10605108 or Electricity for the Construction Trades 10601140*

Electricity for the Construction Trades

10601140.....**2 credits** This course is an introduction to electrical theory and application for those in the construction and building trades. Content includes AC and DC circuits, schematics, Ohms law, multimeter use and circuit troubleshooting. This course will also provide an introduction to the contents of the National Electric Code (NEC).

Energy Load Estimation and Modeling 10483115......3 credits

In this course students will develop the skills to do residential and light commercial energy load estimations. Students will calculate heating and cooling building loads and estimate energy consumption rates and quantities. The student will also estimate energy upgrades such as insulation, window improvements, etc. and calculating payback and fuel savings. The course covers a variety of computer programs available for analyzing buildings.

HVAC Air Conditioning Fundamentals

10601120.....**2 credits** Topics include air conditioning principles and terms, physical principles of air movement, air filtering and humidity, and methods of conditioning air for comfort and health. Also covers the proper use of psychrometers, dry bulb thermometers, hygrometers, and reading and interpretation of psychrometric charts and scales as well as ASHRAE and BPI ventilation standards for residential units. (HVAC is a common industry reference to heating, ventilation, and air conditioning.)

HVAC Heating Fundamentals

10601110.....**2 credits** Provides an introduction to how homes and buildings are heated. Topics include introduction to heat principles, temperature measurement, fuels and other sources of heat, combustion, basic heating systems, basic furnace design, boiler design and operation, venting of furnaces, chimney or exhaust gases, and system controls. (HVAC is a common industry reference to heating, ventilation, and air conditioning.)

Intro to HVAC Installation

10601121.....**2 credits** Addresses residential and light commercial heating and cooling systems. Emphasizes the diversity of heating and cooling systems and how they operate. Students participate in the installation of a variety of HVAC systems and troubleshoot and service systems. (HVAC is a common industry reference to heating, ventilation, and air conditioning.)

OSHA 30 for the Construction Trades

10476170.....**2 credits** The Occupational Safety and Health Administration (OSHA) 30 for the Construction Trades course teaches construction related workers about their rights, employer responsibilities and how to identify, abate, avoid and prevent job related hazards. Course outcomes align with the training outcomes recommended by OSHA. Upon successful completion, students will receive an OSHA 30 Card.

Piping Applications

10483121.....3 credits Presents the fundamentals of plumbing and piping installation practices. Laboratory activities provide students with basic pipe joining processes associated with the plumbing and HVAC industries.

Sustainable Heating System Design & Installation

10483110.....**3 credits** Addresses solar thermal, geothermal, and biomass heating systems. Students participate in the installation and design of a solar hot water system. Topics include safety; system design and layout; component selection; mounting collectors; installing and insulating copper tubing; and installing a storage tank, heat exchanger, circulation pump, and other system components.

Welding Fundamentals 1

104421171 credit An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of FCAW, GMAW, and OXY-Fuel cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.



hospitality management

Associate of Applied Science Program Code: 10-109-2 **Total Credits: 65-66**

Through Mid-State's Hospitality Management program, students will develop a wide array of skills useful in various roles within hospitality and tourism, including a fundamental understanding of food service operations, hospitality sales and marketing, events planning, management principles, customer service, effective communication, and creative thinking. Students in this program engage in various activities and learning opportunities surrounding hospitality and tourism. You will plan events, produce sales and marketing projects, draft budgets, apply culinary skills and plan menus, practice effective management and customer service, and participate in an industry-related internship.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit mstc.edu/advising.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where:
When:

With: Official Transcripts Mid-State Technical College Student Services Assistant 1001 Centerpoint Drive Stevens Point, WI 54481

Other:	



ADAMS CAMPUS 401 North Main Adams, WI 53910



MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449

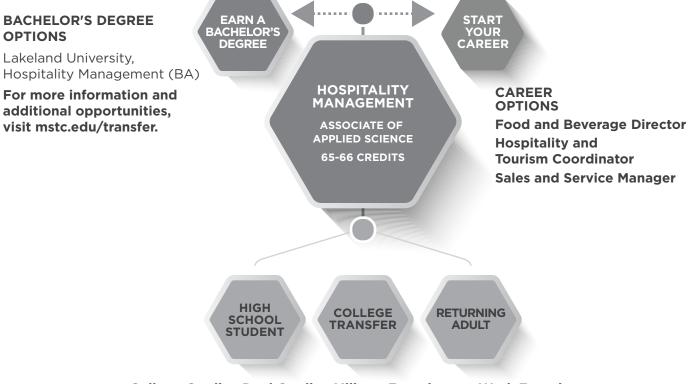


STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481

WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



PROGRAM OUTCOMES

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

- Plan the operations within a hospitality organization.
- Organize hospitality resources to achieve the goals of the organization.
- Direct individuals and/or processes to meet organizational goals.
- Control hospitality processes/procedures.

TECHNICAL SKILLS ATTAINMENT

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. Students will fulfill the TSA requirement upon completion of the business plan and projects in Sanitation for Food Service Operations, Introduction to Food Production, and Hospitality Concept Development courses.

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

108381042 credits Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109.....**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term	16 credi	ts
10104102 10109101	Marketing Principles Exploring Hospitality	3
10109101	Quality Customer Service	3 3 1 3 3
10316112	Sanitation for Food Service Operations	1
10809103	Think Critically & Creatively	3
10801136	English Composition 1	3
Term	18-19 credi	ts
10109105	Hospitality Concept Development	3
10109112	Tourism	3 1 3 2
10109157	Internship-Tourism, Lodging, Guest Services	1
10316125 10316126	Introduction to Food Production Culinary Applications	3 2
10801196	Oral/Interpersonal Communication -or-	2
10801198	Speech	3
10804107	College Mathematics	3
10804118	-or- Intermediate Algebra with Applications	4
10004110	-or-	4
10804189	Introductory Statistics	3
Term	16 credi	ts
10109110	Room Operations Division	3
10109130	Hospitality Sales and Promotion	3 3
10109134	Cost Control-Revenue Management	3
10109158	Internship-Culinary, Food/Beverage, Special Events	1
10316127	Menu Planning	3
10316160	Catering and Special Event Planning	3
Term	15 credi	ts
10109107	Hospitality Law and Liability	
10196191	Supervision	3
10196193	Human Resource Management	3
10809166 10809198	Intro to Ethics: Theory & Application Intro to Psychology	3 3 3 3 3 3 3
10005150	into to i sychology	5
	Total credits 65-6	56

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10106106 10109101 10316112	Quality Customer Service Exploring Hospitality Sanitation for Food Service Operatic	7 credits 3 ons 1
Term 10109110 10801136 10809103	Room Operations Division English Composition 1 Think Critically & Creatively	9 credits 3 3 3 3
Term 10316125 10804107	9- Introduction to Food Production College Mathematics -or-	10 credits 3 3
10804118	Intermediate Algebra with Applicatio	ons 4
10804189 10809198	Introductory Statistics Intro to Psychology	3 3
Term 10104102 10109130 10109157 10316126	Marketing Principles Hospitality Sales and Promotion Internship-Tourism, Lodging, Guest S Culinary Applications	9 credits 3 Services 1 2
Term 10109105 10316160 10801196 10801198	Hospitality Concept Development Catering and Special Event Planning Oral/Interpersonal Communication - Speech	
Term 10109112 10316127 10809166	Tourism Menu Planning Intro to Ethics: Theory & Application	9 credits 3 3 3 3
Term 10109107 10109158 10196193	Hospitality Law and Liability Internship-Culinary, Food/Beverage, Special Events Human Resource Management	7 credits 3 1 3
Term 10109134 10196191	Cost Control-Revenue Management Supervision	6 credits 3 3
	Total crec	lits 65-66

Catering and Special Event Planning

103161603 credits Introduces how to develop, plan and execute catering and special events to the exacting details of the customer. Emphasis is on the importance of details in planning to achieve the best possible results. Activities will encourage both creative thinking and functionality to ensure customer satisfaction and business profitability.

College Mathematics

108041073 credits 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 and 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 US and metric systems, applying Pythagorean Theorem, solving right and obligue triangles, calculating probabilities, organizing data and interpreting charts, calculating central and spread measures, and summarizing and analyzing data.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Cost Control-Revenue Management

101091343 credits Covers the concepts and techniques of controlling costs with particular emphasis placed on cost-to-sales relationship. Utilizing industry specific technology, students calculate the cost of goods, selling price and relative percentages. They also forecast sales, conduct yield analyses and calculate break-even points.

Culinary Applications

10316126.....2 credits Applies the basic principles of culinary calculations involved in the purchase, preparation and use of goods related to the hospitality field.

English Composition 1 108011363 credits

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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Exploring Hospitality

10109101......3 credits Introduces students to the broad field of hospitality management. Typical career areas include food service, lodging, travel/tourism, and recreation. The course will explore the industry from historical to contemporary career opportunities.

Hospitality Concept Development

10109105......3 credits Introduces the learner to the basic process and consideration for a hospitality business from concept to start-up. Included in this study with be concept and menu development, equipment, facility layout, and design. This course will evaluate the business idea from a financial, operational, and practical view.

Hospitality Law and Liability

101091073 credits Introduces legal principles together with standard business law concepts and emphasizes their implications for the hospitality and tourism industry. Among the topics covered are contracts, torts and negligence, hotel/guest relationships, ADA, food service and employment laws and consumer protection. Case studies involving the basic principles of law assist in developing judgment in these areas.

Hospitality Sales and Promotion

101091303 credits Covers sales and promotion in the hospitality industry. The emphasis is on promoting hospitality entities to attract new customers, selling principles and merchandising techniques for products and services, and innovative ways to maintain the interest of existing customers.

Human Resource Management

10196193.....3 credits Applies skills and tools necessary to perform human resource functions in an organization. Each learner demonstrates 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.

Intermediate Algebra with Applications

10804118 4 credits 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; and algebra of inverse, logarithmic, and exponential functions. Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 263 and QAS 234 or ACT of 19 or QAS of 245. or Pre-Algebra 10834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Internship-Culinary, Food/Beverage, Special Events 101091581 credit

This internship provides students with practical knowledge and experience in the hospitality industry through the lens of restaurant, food and beverage, and special event service workers and managers. Integrating the theories and techniques learned in previous courses with specific off-campus occupational experiences at selected training sites allows students to gain a real-world perspective of this segment of the industry.

Prerequisites: Admission to Hospitality Management program 101092 and completion of 10 core credits within the Hospitality Management program or consent of instructor.

Internship-Tourism, Lodging, Guest Services

101091571 credit This internship provides students with practical knowledge and experience in the hospitality industry through the lens of tourism, lodging, and guest services. Integrating the theories and techniques learned in previous courses with specific off-campus occupational experiences at selected training sites allows students to gain a real-world perspective of this segment of the industry. Students will be taking this course as part of the National Restaurant Association's "Manage First" program and will take an industry certification exam at the end of the course. *Prerequisites: Admission to Hospitality Management program 101092 and completion of 10 core credits within the Hospitality Management program or consent of instructor.*

Intro to Ethics: Theory & Application

10809166.....**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Food Production

10316125.....**3 credits** Introduces quantity food production to the non-culinary student. Topics include the preparation of a variety of menu items, equipment use, cooking methods and terminologies, recipe conversion and the essentials of timing and coordination of service.

Prerequisite: Sanitation for Food Service Operations 10316112

Introductory Statistics

10804189.....**3 credits** 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: High School GPA of 3.0 or Accuplacer QAS 241 or ACT of 19 or Pre-Algebra 834109 with a grade of "C" or better or College Math 804107 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Marketing Principles

10104102.....**3 credits** This course serves as an introduction to the fundamental marketing concepts used to apply marketing strategies to product development, distribution, pricing, and promotion of goods and services.

Menu Planning

10316127......3 credits A hands-on approach to planning, creating, and maintaining effective menus. Discussions include menu items and placement, food costing and creative menu designs for visual appeal. Menu planning and design software may be utilized.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Quality Customer Service

10106106.....**3 credits** Addresses sensitivity in communicating with customers and co-workers. Includes international communications, teamwork, working relationships, and telephone skills.

Room Operations Division

10109110.....**3 credits** Investigates the organization, performance, evaluation, and interdependency of the rooms division of a lodging facility (front desk, reservations, housekeeping, facilities, and telephone systems) as essential components of operational success and guest satisfaction.

Sanitation for Food Service Operations 103161121 credit

Focus on the development of skills to follow sanitation and hygiene provisions in state codes. The Servsafe certification test is included.

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Supervision

10196191.....**3 credits** Applies 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.

Think Critically & Creatively

10809103.....**3 credits** Provides instruction in the vital, realistic, and practical methods of thinking that are in high demand in all occupations of substance today. Provides in-depth consideration of decision making, problem solving, detailed analysis of ideas, troubleshooting, argumentation, persuasion, creativity, setting goals and objectives, and more. Students apply specific thinking strategies and tools to situations in a wide variety of workplace, personal, academic, and cultural situations. Classroom instruction is based on demonstration, discussion, projects, and teamwork. Assignments range from the short and simple to the detailed and complex. Focuses on reality and practicality throughout.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Tourism

101091123 credits

Focuses on the opportunities and advantages of approaching tourism from a community viewpoint. Students study the economic, employment and environmental impact of tourism on the quality of life experienced by a community. Particular emphasis will be placed on the impact of tourism in WI.



human resources assistant

Technical Diploma Program Code: 31-116-1 Total Credits: 27

Mid-State's Human Resources Assistant program prepares students to successfully manage activities involving new staff, including recruiting, interviewing, hiring, and onboarding. Graduates are also able to provide support for all existing staff regarding employment needs and integrate human resources within an organization's strategic initiatives. In this program you'll engage in various activities and learning opportunities focused on employee support, vital aspects of the hiring process, and labor relations and law. You'll also develop and practice effective communication skills to meet the needs of employees in any organization.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

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CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

Follow-Up Appointment:
 Where: ______

When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481



ADAMS CAMPUS 401 North Main Adams, WI 53910



MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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^{Other:_____}

career pathway



Capella University, Business Management (BS)

Herzing University, Business Management (BS)

Lakeland University, **Business Administration-**Management Emphasis (BA)

University of Phoenix, Management (BS)

UW-Oshkosh, Human Services Leadership (BS)

UW-Oshkosh, Organizational Studies emphasis of Leadership and **Organizational Studies (BAS)**

UW-Stevens Point, Management (BS)

For more information and additional opportunities, visit mstc.edu/transfer.

ENTREPRENEURSHIP

TECHNICAL

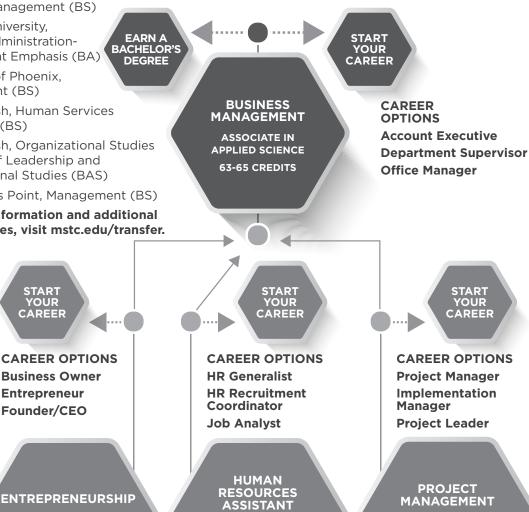
DIPLOMA

30 CREDITS

HIGH

SCHOOL

STUDENT



MANAGEMENT TECHNICAL DIPLOMA 24 CREDITS

OTHER OPTIONS

RELATED PROGRAMS

College Credit • Dual Credit Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.

RETURNING

ADULT

BEGIN AT ANY POINT IN THE PATHWAY

TECHNICAL

DIPLOMA

27 CREDITS

COLLEGE

TRANSFER

 Administrative Professional Customer Relationship Professional

- Leadership Development
- Office Support Specialist

PROGRAM OUTCOMES

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

- Direct individuals and/or processes to meet organizational goals.
- Control business processes.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

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ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term		15 credits
10102110	Employment Law	3
10102138	Organizational Behavior	3
10103106	Microsoft Office-Introduction	3
10196193	Human Resource Management	3
10801198	Speech	3
Term		12 credits
10102121	Finance and Budgeting	3
10196191	Supervision	3
10801136	English Composition 1	3
10809196	Intro to Sociology	3
	Тс	otal credits 27

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. For details, go to **mstc.edu/classfinder**.

NOTES:

SAMPLE PART-TIME CURRICULUM OPTION

Term 10102121 10103106 10809196	Finance and Budgeting Microsoft Office-Introduction Intro to Sociology	9 credits 3 3 3
Term 10102110 10102138 10801136	Employment Law Organizational Behavior English Composition 1	9 credits 3 3 3
Term 10196191 10196193 10801198	Supervision Human Resource Management Speech	9 credits 3 3 3
	Tot	tal credits 27

Employment Law

10102110.....**3 credits** Introduces a broad scope of employment laws and provides the opportunity to apply these laws to the employment arena. Includes 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 ACA; and unemployment and worker's compensation insurance.

English Composition 1

10801136.....**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Finance and Budgeting

10102121.....**3 credits** For the nonfinancial manager, this course introduces the language of accounting, finance, and budgeting. Provides an overview of the use and analysis of financial statements. Business planning and the foundations and development of budgets are explored. Business financing basics and the securing of necessary financing for a business are covered. Practical application of financial statement creation and analysis, budgetary activities, and finance calculations are included.

Human Resource Management

10196193.....3 credits Applies skills and tools necessary to perform human resource functions in an organization. Each learner demonstrates 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.

Intro to Sociology

10809196.....**3 credits** Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Microsoft Office-Introduction

10103106.....**3 credits** Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, PowerPoint, and Outlook) while reinforcing the students' knowledge of computer concepts, Windows Explorer, and web usage. Students should possess basic keyboarding, mouse and Windows 10 skills. Students may develop these skills in the LiNK while concurrently enrolled in this course.

Organizational Behavior

10102138......3 credits This course assists the learner in becoming a more effective co-worker, team member and organizational citizen through an understanding of the key principles of how people behave within organizations and in turn, predict and influence future behavior. As a result, the learner will analyze organizational structures, assess organizational culture, analyze leadership types and styles, apply conflict resolution strategies, explore power relationships, implement change management techniques, demonstrate effective team management and describe the ingredients of diversity as these aspects are related to people's behavior in organizations.

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Supervision

10196191.....**3 credits** Applies 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.

2020/2021



industrial automation & controls engineering technology

Associate in Applied Science (AAS) Program Code: 10-605-4 Total Credits: 63

Unique in the Wisconsin Technical College System, the Industrial Automation & Controls Engineering program at Mid-State prepares graduates to measure and control industrial processes in today's high-tech manufacturing environments. In this program you'll apply mathematical skill and basic laws of physical sciences to design, install, calibrate, maintain, troubleshoot, and repair industrial control systems. You'll learn to use a variety of different forms of instrumentation and have access to state-of-the-art equipment. Field trips to businesses that have process control systems as an integral part of operations extend your hands-on experience into the real world.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

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CHECKLIST:

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This section will be completed when meeting with your academic advisor.

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With:	

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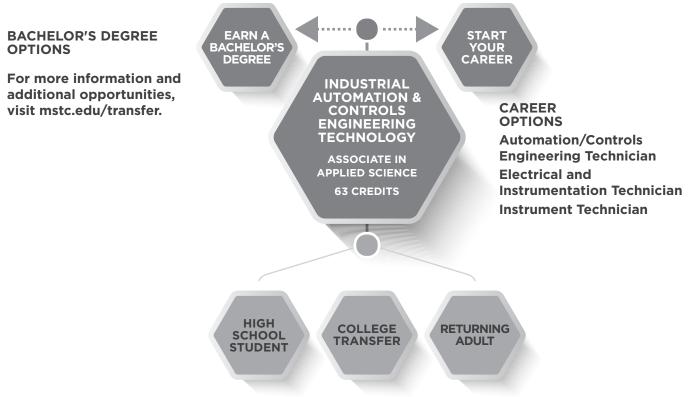


STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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Other:_____

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Civil Engineering Technology-Highway Technician
- Electrical Power Engineering Technician

APPRENTICESHIP OPPORTUNITIES

• Electrical & Instrumentation Technician Apprenticeship

PROGRAM OUTCOMES

Employers will expect you, as an Industrial Automation & 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 + IDs, and loopsheets as well as 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 tuning.
- Create two-dimensional drawings using AutoCAD.
- Design, program, and troubleshoot programmable logic control (PLC) programs.

TECHNICAL SKILLS ATTAINMENT

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Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

15 credi Electrical Circuits I Introduction to Instrumentation Process Documentation Process Equipment English Composition 1 Intermediate Algebra with Applications	ts 3 1 2 3 4
15 credi Industrial Safety Electrical Circuits II Automation 1 - Beginning PLC Intro to AutoCAD Trigonometry with Applications College Physics 1	2 3 3 1 3 3
16 credi Process Measurements Instrumentation Semiconductor Technology Automation 2 - Advanced PLC Process Control Strategies College Algebra with Applications Developmental Psychology -or- Intro to Psychology	ts 2 3 2 3 3 3
17 credi Machine Shop Fundamentals Electrical Controls for Industrial Automation Automation 3 - HMI's & Networks Process Troubleshooting Strategies Process Systems Oral/Interpersonal Communication -or- Speech Intro to American Government -or- Intro to Ethics: Theory & Application	3 3 2 1 2 3 3
	Electrical Circuits I Introduction to Instrumentation Process Documentation Process Equipment English Composition 1 Intermediate Algebra with Applications 15 credi Industrial Safety Electrical Circuits II Automation 1 - Beginning PLC Intro to AutoCAD Trigonometry with Applications College Physics 1 16 credi Process Measurements Instrumentation Semiconductor Technology Automation 2 - Advanced PLC Process Control Strategies College Algebra with Applications Developmental Psychology -or- Intro to Psychology 17 credi Machine Shop Fundamentals Electrical Controls for Industrial Automation Automation 3 - HMI's & Networks Process Troubleshooting Strategies Process Systems Oral/Interpersonal Communication -or- Speech Intro to American Government -or-

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10605105 10605111 10804118	Electrical Circuits I Introduction to Instrumentation Intermediate Algebra with Application	9 credits 3 2 ons 4
Term 10462107 10605110 10804196	Industrial Safety Electrical Circuits II Trigonometry with Applications	8 credits 2 3 3
Term 10605112 10605131 10801136	Process Documentation Process Equipment English Composition 1	6 credits 1 2 3
Term 10605117 10623106 10806143	Automation 1 - Beginning PLC Intro to AutoCAD College Physics 1	7 credits 3 1 3
Term 10605118 10605121 10804195	Automation 2 - Advanced PLC Process Control Strategies College Algebra with Applications	8 credits 3 2 3
Term 10462132 10462133 10801196 10801198	Machine Shop Fundamentals Electrical Controls for Industrial Auto Oral/Interpersonal Communication - Speech	
Term 10605100 10605115 10809188 10809198	Process Measurements Instrumentat Semiconductor Technology Developmental Psychology -or- Intro to Psychology	8 credits ion 2 3
Term 10605119 10605133 10605172 10809122 10809166	Automation 3 - HMI's & Networks Process Troubleshooting Strategies Process Systems Intro to American Government -or- Intro to Ethics: Theory & Application	8 credits 2 1 2 3 credits 63
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Automation 1 - Beginning PLC

10605117**3 credits** An overview of programmable logic controllers (PLCs) that provides a foundation of knowledge of the programming techniques, operation, and maintenance of PLCs used in typical industrial automation.

Automation 2 - Advanced PLC

10605118.....**3 credits** A lab intensive course covering advanced PLC topics and programming techniques, analog I/O, VFDs, basic HMI interfaces, industrial robotics and troubleshooting. *Prerequisite: Automation 1 - Beginning PLC 10605117 or consent of instructor*

Automation 3 - HMI's & Networks

10605119.....**2 credits** A lab intensive course covering advanced PLC programming techniques, HMI programming, industrial robotic systems interface, networking basics and troubleshooting of automation systems.

Prerequisite: Automation 1 - Beginning PLC 10605117

College Algebra with Applications

10804195.....**3 credits** Covers the 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, combinatories, and the binomial theorem.

Prerequisite: Trigonometry with Applications 10804196 with a grade of "C" or better or Intermediate Algebra with Applications 10804118 with a grade of "C" or better. Students without Trigonometry with Applications are encouraged to bring transcripts for individual course evaluation.

College Physics 1

10806143**3 credits** Presents the applications and theory of basic physics principles. This course emphasizes problem solving, laboratory investigation and applications. Topics include laboratory safety, unit conversions and analysis, kinematics, dynamics, work, energy, power, temperature and heat. *Corequisite: Trigonometry with Applications 10804196*

Developmental Psychology

10809188.....**3 credits** Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Electrical Circuits I

106051053 credits 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 percent of the course is spent in the laboratory applying the principles and theory presented in the classroom. *Corequisite: Intermediate Algebra with Applications 10804118*

Electrical Circuits II

10605110.....**3 credits** Continues the study of AC/DC circuits started in Electrical Circuits I. Introduces advanced DC circuit analysis techniques such as Thevenin's Theorem and nodal analysis. Includes discussion of voltage and power theorems used in the analysis of AC circuits consisting of both resistance and reactance. The complex plane and construction of phasor diagrams are also discussed. Concludes with an introduction to electronic filter circuits used in transmission and communication equipment. Approximately 50 percent of the course is spent in the laboratory, applying the principles and theory presented in the classroom. *Prerequisite: Electrical Circuits I 10605105 with a "C" or better; Corequisite: Trigonometry with Applications 1080419*

Electrical Controls for Industrial Automation

10462133.....3 credits 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 controls through classroom and lab activities. *Prerequisite: Electrical Circuits 1 10605105*

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Industrial Safety

104621072 credits 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. Focuses 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.

Intermediate Algebra with Applications

10804118......**4 credits** 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; and algebra of inverse, logarithmic, and exponential functions. *Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 263 and QAS 234 or ACT of 19 or QAS of 245, or Pre-Algebra 10834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Intro to American Government

10809122.....3 credits 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to AutoCAD

10623106**1 credit** This introductory course in computer-aided drafting (CAD)

using AutoCAD software 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.

Intro to Ethics: Theory & Application

10809166.....**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Psychology

108091983 credits

This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Instrumentation

10605111.....**2 credits** This introductory course on instrumentation emphasizes 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 survey of pressure, level, flow, and temperature instruments and their mechanisms, and an introduction to process control, automation, and controllers. *Corequisite: Intermediate Algebra w/Apps 10804118*

Machine Shop Fundamentals

10462132.....**3 credits** Students participating in this class will be introduced to common machine tools and their functions. Classroom activities and hands-on lab exercises will be used to introduce participants to some of the most common applications in machining. Lab activities will introduce students to shop safety and identification of machine tools. Students will also gain understanding of the basic processes performed with different machine tools and basic machine set up and operations.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on contexts of a context of a context of the self.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Process Control Strategies

10605121.....**2 credits** This course examines various methods and techniques used in process control, including control loop analysis, control tuning (PID) process and tuning methods, system gain, statistical control processes, cascade and feed forward control, split control, and other advanced control techniques.

Prerequisite: Introduction to Instrumentation 10605111

Process Documentation

106051121 credit This course will provide the student with the tools needed to read and understand process drawings and diagrams used in the process industries to maintain and troubleshoot industrial processes. Specific documentation includes piping and instrument diagrams (P&ID), process flow diagrams (PFD), block flow diagrams, control loop diagrams, functional diagrams, electrical diagrams, utility flow diagrams, wiring diagrams, schematics, isometric drawings.

Process Equipment

10605131.....**2 credits** This course will provide students with detailed analysis of standard process equipment. Equipment discussed includes pumps, valves, piping, equipment connections, motors, tanks and vessels, basic wiring practices, compressors, regulators, boilers, containment, heat exchangers.

Process Measurements Instrumentation

10605100.....**2 credits** Reviews basic principles and calibration standards and practices developed in instrument mechanics. Studies common sensing devices and components employed for the measurement of pressure, temperature, flow, level, and related phenomena.

Prerequisite: Introduction to Instrumentation 10605111 with a "C" or better

Process Systems

10605172.....**2 credits** This course will provide students with detailed analysis of standard process systems and how they are monitored and controlled. Systems examined include water/steam services (boilers and cooling towers), thermal transfer systems and heat exchangers, compressors and vacuum systems, HVAC, turbines, distillation and strippers, refrigeration, separators. *Prerequisite: Process Equipment 10605131*

Process Troubleshooting Strategies 10605133.....1 credit

This course develops employee skills related to troubleshooting and employment strategies in area manufacturing industries by working directly with companies that have agreed to partner with MSTC for this course. The course requires the student to work with a partnering company to assist in a problem solving or project work situation. Local companies are asked to submit a current problem or project with a narrow focus relating to industrial automation or instrumentation. The student meets with company personnel as needed, formulates the problem or project, and researches methods of solving or completing the project.

Prerequisite: Process Control Strategies 10605121

Semiconductor Technology

10605115**3 credits** Presents semi-conductor principles with emphasis on practical applications. After reviewing diode and transistor characteristics, studies bias stabilizing techniques followed by an introduction to transistor amplifiers. *Corequisite: Electrical Circuits II 10605110*

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Trigonometry with Applications

10804196.....**3 credits** 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. Students without Intermediate Algebra with Applications are encouraged to bring transcripts for individual course evaluation.*



industrial mechanical technician

Associate in Applied Science (AAS) Program Code: 10-462-1 Total Credits: 60

Mid-State's Industrial Mechanical Technician program will give you the hands-on foundation necessary to confidently maintain, repair, and operate machinery and equipment in an industrial environment. You will learn to align, maintain, repair, and replace machine components as well as gain understanding of predictive and preventive maintenance, reliability-centered maintenance, and many other topics. The program emphasizes safety in the workplace and includes many hands-on and interactive classroom experiences, lab activities, and field trips.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where: _	
When:	

With:

Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

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Other: _____
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ADAMS CAMPUS 401 North Main Adams, WI 53910



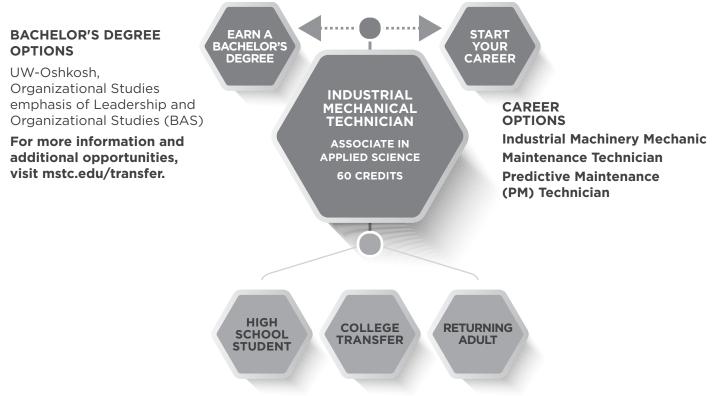
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Machine Tool Technician
- Manufacturing Operations
 Management
- Stainless Steel Welding
- Welding

APPRENTICESHIP OPPORTUNITIES

- Maintenance Technician
 Apprenticeship
- Millwright/Maintenance Mechanic Apprenticeship

PROGRAM OUTCOMES

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

- Demonstrate safe work procedures.
- Install industrial equipment and systems.
- Maintain industrial equipment and systems.
- Troubleshoot industrial equipment and systems.
- Repair industrial equipment and systems.
- · Communicate technical information.

TECHNICAL SKILLS ATTAINMENT

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. Students will be assessed in the Mechanical Power Transmission course to fulfill the TSA requirement.

PROTECTIVE CLOTHING

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

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term	15 cred	lits
10462122	Predictive, Preventive, and Reliability Maintenance	2
10462132	Machine Shop Fundamentals	
10605105	Electrical Circuits I	3
10801136 10804118	English Composition 1 Intermediate Algebra with Applications	3 3 3 4
1000-110	Internediate Algebra with Applications	-
Term	15 cred	
10462107 10462110	Industrial Safety Matorial Handling	2 2
10462110	Material Handling Electric Controls for Industrial Automation	2 3
10623106	Intro to AutoCAD	1
10623114	Intro to Inventor	1
10801196	Oral/Interpersonal Communication -or-	7
10801198 10804196	Speech Trigonometry with Applications	3 3
10004150	Ingonometry with Applications	5
Term	16 cred	lits
10442117	Welding Fundamentals 1	1
10442118 10462104	Welding Fundamentals 2 Fluid Process Systems	1 3
10462104	Mechanical Power Transmission	
10605117	Automation 1 - Beginning PLC	3 3
10462131	Industrial Electric Power Applications	2
10809188	Developmental Psychology -or-	7
10809198	Intro to Psychology	3
Term	14 cred	lits
10457119	Fabrication Fundamentals 1	1
10457120	Fabrication Fundamentals 2	1
10462120 10605118	Industrial Hydraulics & Pneumatics Automation 2 - Advanced PLC	3 7
10806143	College Physics 1	3 3 3
10809166	Intro to Ethics: Theory & Application	3
	Total credits	60

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term	Predictive, Preventive, and	9 credits
10462122	Reliability Maintenance Machine Shop Fundamentals	2 3
10804118	Intermediate Algebra with Application	ons 4
Term 10462107 10462110 10804196	Industrial Safety Material Handling Trigonometry with Applications	7 credits 2 2 3
Term 10442117 10442118 10605105 10801136	Welding Fundamentals 1 Welding Fundamentals 2 Electrical Circuits I English Composition 1	8 credits 1 1 3 3
Term 10462133 10623106 10623114 10801196 10801198	Electric Controls for Industrial Autor Intro to AutoCAD Intro to Inventor Oral/Interpersonal Communication - Speech	1 1
Term 10462106 10462131 10605117	Mechanical Power Transmission Industrial Electric Power Application Automation 1 - Beginning PLC	8 credits 3 15 2 3
Term 10457119 10457120 10806143 10809188 10809198	Fabrication Fundamentals 1 Fabrication Fundamentals 2 College Physics 1 Developmental Psychology -or- Intro to Psychology	8 credits 1 1 3 3
Term 10462104 10809166	Fluid Process Systems Intro to Ethics: Theory & Application	6 credits 3 3
Term 10462120 10605118	Industrial Hydraulics & Pneumatics Automation 2 - Advanced PLC	6 credits 3 3
	Total	credits 60

Automation 1 - Beginning PLC

10605117**3 credits** An overview of programmable logic controllers (PLCs) that provides a foundation of knowledge of the programming techniques, operation, and maintenance of PLCs used in typical industrial automation.

Automation 2 - Advanced PLC

10605118.....**3 credits** A lab intensive course covering advanced PLC topics and programming techniques, analog I/O, VFDs, basic HMI interfaces, industrial robotics and troubleshooting. *Prerequisite: Automation 1 - Beginning PLC 10605117 or consent of instructor*

College Physics 1

10806142**3 credits** Presents the applications and theory of basic physics principles. This course emphasizes problem solving, laboratory investigation and applications. Topics include laboratory safety, unit conversions and analysis, kinematics, dynamics, work, energy, power, temperature and heat.

Corequisite: Trigonometry with Applications 10804196

Developmental Psychology

10809188.....**3 credits** Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Electrical Circuits I

10605105.....**3 credits** 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 percent of the course is spent in the laboratory applying the principles and theory presented in the classroom. *Corequisite: Intermediate Algebra with Applications 10804118*

Electric Controls for Industrial Automation

10462133.....3 credits 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 controls through classroom and lab activities. *Prerequisite: Electrical Circuits 1 10605105*

English Composition 1

10801136.....**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Fabrication Fundamentals 1

10457119.....1 credit An introduction to structural shapes and sheet metal fabrication. Presents fabrication techniques, metal selection, and layout, cutting, bending, drilling, threading, and joining using manual equipment and techniques. Information is presented to the student and followed up with lab activities to provide a hands-on experience. Emphasizes developing an understanding of the tools, techniques, safe work habits, and application of sheet metal fabrication skills.

Fabrication Fundamentals 2

10457120.....1 credit An introduction to plate steel and heavy fabrication. Presents fabrication techniques using heavy fabrication equipment. CNC Cutting, Plate and Tube bending, Sawing and Shearing equipment will be presented and followed up with lab activities to provide a hands-on experience. Emphasizes developing an understanding of the equipment, techniques, safe work habits, and application of heavy metal fabrication skills.

Fluid Process Systems

10462104.....**3 credits** 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.

Industrial Electric Power Applications

10462131**2 credits** Introduces concepts and applications of typical 3-phase power systems used in industry with focus on selection of overload devices, fuse sizing, wire selection, electrical motor theory and applications, and introduction to variable frequency drives through lecture and lab activities. *Corequisite: Industrial Electric Control Applications 10462130*

course descriptions

Industrial Hydraulics & Pneumatics

104621203 credits

Studies basic principles of hydraulics and pneumatics. Covers the advantages, disadvantages, and inherent problems with these systems. Includes the principles of operation and the constructional features of pumps, motors, valves, seals, packing, and conductors as well as the physical properties of liquids. Students learn to identify various parts of a circuit and analyze them for their use. *Prerequisite: Intermediate Algebra with Applications 10804118*

Industrial Safety

104621072 credits 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. Focuses 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.

Intermediate Algebra with Applications

Intro to AutoCAD

106231061 credit This introductory course in computer-aided drafting (CAD) using AutoCAD software 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.

Intro to Ethics: Theory & Application

10809166.....**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Inventor

10623114**1 credit** This course is an introduction to Inventor by AutoDesk. Students will learn how to create 3D models of basic objects, add dimensioning, and generate multiview projections. *Corequisite: Intro to AutoCAD 10623106*

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Machine Shop Fundamentals

10462132.....**3 credits** Students participating in this class will be introduced to common machine tools and their functions. Classroom activities and hands-on lab exercises will be used to introduce participants to some of the most common applications in machining. Lab activities will introduce students to shop safety and identification of machine tools. Students will also gain understanding of the basic processes performed with different machine tools and basic machine set up and operations.

Material Handling

104621102 credits 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 use of this type of material handling equipment.

Mechanical Power Transmission

10462106.....**3 credits** 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.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Predictive, Preventive, and Reliability Maintenance

10462122.....2 credits An exploration of the various maintenance systems and approaches used to maintain manufacturing and industrial facilities. Through various hands-on labs and class demonstrations, learners will explore Computerized Maintenance Management Systems (CMMS) as well as the techniques and tools associated with vibration analysis. thermography, precision alignment, and ultrasound.

Speech

108011983 credits Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

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. Students without Intermediate Algebra with Applications are encouraged to bring transcripts for individual course evaluation.

Welding Fundamentals 1

104421171 credit An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of FCAW, GMAW, and OXY-Fuel cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.

Welding Fundamentals 2

104421181 credit An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of GTAW, SMAW and Plasma cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.



it computer support specialist

Associate in Applied Science (AAS) Program Code: 10-154-3 Total Credits: 60-61

The IT Computer Support Specialist program prepares individuals for help desk positions that provide technical support, assistance, advice, troubleshooting, training, and documentation to computer end users for hardware, software, and systems. Graduates have a working knowledge of computer hardware and software and their applications within wide area networks. In this program, handson instruction will build your familiarity with various desktop and server environments; basic computer network technologies; help desk ticketing, management and customer support; and database design, development, and administration. The program helps to prepare graduates to test for the CompTIA A+ and Linux+ certifications as well as the Microsoft Certified Solutions Associate for Windows 10.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where:	
When:_	
With:	

Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481



ADAMS CAMPUS 401 North Main Adams, WI 53910



MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449

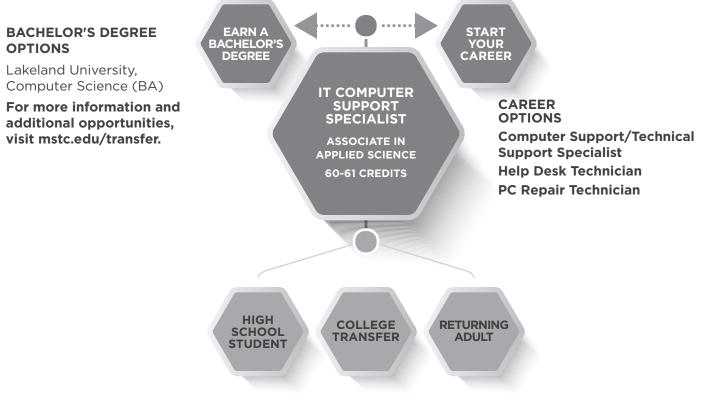


STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

Other:_____

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Business Analyst
- IT Network Specialist
- IT Security Specialist
- IT Software Developer
- Microsoft System Administrator

PROGRAM OUTCOMES

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

- Manage information technology hardware.
- Manage software.
- Support computer networks.
- Provide end-user support.
- Solve information technology problems.
- Demonstrate customer service skills as an IT professional.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10103106 10150110 10151105 10154102 10801136	Microsoft Office-Introduction Networking I Linux Hardware Essentials English Composition 1	1 5 credits 3 3 3 3 3 3 3
Term 10150120 10150165 10151110 10154110 10801196 10801198	1 Server Administration-Beginning Network Server Scripting Information Security 1 Desktop Management Oral/Interpersonal Communication - Speech	15 credits 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5
Term 10154120 10154132 10804107	Advanced Desktop Management Help Desk Fundamentals College Mathematics	6 credits 3 3 3
10804118 10809103 10809188 10809198	-or- Intermediate Algebra with Application Think Critically & Creatively Developmental Psychology -or- Intro to Psychology	ons 4 3 3
Term 10102130 10154141 10801199	1 Career Development -or- Computer Support Internship -or- Employment Strategies	I 5 credits
10150113 10150111 10151111 10156101 10154142 10801197 10809166	Networking II -or- Information Security 2 -or- Database Concepts and Design Computer Support Capstone Technical Reporting Intro to Ethics: Theory & Application	3 3 3 3
	Total cred	lits 60-61

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10151105 10154102 10801136	Linux Hardware Essentials English Composition 1	9 credits 3 3 3
Term 10150120 10801196 10801198	Server Administration-Beginning Oral/Interpersonal Communication - Speech	6 credits 3 or- 3
Term 10103106 10150110	Microsoft Office-Introduction Networking I	6 credits 3 3
Term 10150165 10151110 10154110	Network Server Scripting Information Security 1 Desktop Management	9 credits 3 3 3
Term 10154132 10804107	Help Desk Fundamentals College Mathematics	10 credits 3 3
10804118 10809188 10809198	-or- Intermediate Algebra with Application Developmental Psychology -or- Intro to Psychology	ons 4 3
Term 10150111 10151111 10156101 10154142 10801197	Networking II -or- Information Security 2 -or- Database Concepts and Design Computer Support Capstone Technical Reporting	9 credits 3 3 3
Term 10154120 10809103	Advanced Desktop Management Think Critically & Creatively	6 credits 3 3
Term 10102130 10154141 10801199 10809166	Career Development -or- Computer Support Internship -or- Employment Strategies Intro to Ethics: Theory & Application	6 credits 3 3
	Total cred	dits 60-61

Advanced Desktop Management

10154120.....**3 credits** Provides students with the background needed to build the knowledge and skills to support end users and computers running the Microsoft suite of productivity applications. Focuses on the skills needed to work in a variety of environments, including corporate environments as well as phone support for home users, remote support, and retail counter support.

Prerequisite: Desktop Management 10154110

Career Development

10102130.....**3 credits** Prepares 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, and 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Computer Support Capstone

10154142**3 credits** In this capstone course students complete a project that incorporates skills gained from previous terms. Students demonstrate those skills by creating a project proposal, presenting a technical design, and/or implementing a project based on specifications provided by the instructor. *Prerequisite: Help Desk Fundamentals 10154132 and Advanced Desktop Management 10154120*

Computer Support Internship

10154141.....**3 credits** Integrates skills developed in classroom study with specific occupational experiences at local employment sites and develops work behavior appropriate to the business environment.

Prerequisite: Help Desk Fundamentals 10154132

Database Concepts and Design

10156101.....**3 credits** Introduces the concepts of relational database design, development, and maintenance. Topics include relational normalization, referential integrity, and SQL. *Corequisite: English Composition 1 10801136*

Desktop Management

10154110.....**3 credits** Introduces students to the skills needed to support client PC Operating Systems. Through significant hands-on activities, students learn how to configure, secure, use, and troubleshoot client operating systems. *Corequisite: English Composition 1 10801136*

Developmental Psychology

10809188.....**3 credits** Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Employment Strategies

10801199.....**3 credits** 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Hardware Essentials

101541023 credits The first in a two-course series that aligns with the CompTIA A+ certification. This class is designed to teach students how to build, configure, secure, network, and troubleshoot PCs. The course covers the objectives of the CompTIA A+ exams but is not designed or intended to be a "test prep" course. *Corequisite: English Composition 1 10801136*

Help Desk Fundamentals

10154132......3 credits

Provides the learner with the knowledge required to become a Help Desk Support technician. Students will learn fundamental Help Desk concepts such as: Help Desk operations, roles and responsibilities, processes and procedures, tools and technologies, individual and team performance measures, and how to provide support as a Help Desk professional.

Prerequisite: Hardware Essentials 10154102

Information Security 1

10151110......3 credits

Introduces students to the fundamentals of information security. Topics include security terms and concepts, risk assessment, cryptography, monitoring and auditing, attacks and techniques, and the legal and ethical issues associated with information security. *Prerequisite: Linux 10151105*

Information Security 2

10151111.....**3 credits** Introduces students to intrusion detection tools, network security design, various types of network firewalls, and the basics of VPN configuration. A solid understanding of LAN/ WAN fundamentals is required for this course. *Prerequisite: Information Security 1 10151110*

Intermediate Algebra with Applications

10804118......**4 credits** 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; and algebra of inverse, logarithmic, and exponential functions. *Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 263 and QAS 234 or ACT of 19 or QAS of 245, or Pre-Algebra 10834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Intro to Ethics: Theory & Application

10809166**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Linux

10151105.....**3 credits** Covers introductory Linux topics, including operating system basics, system installation, file system management, file system administration, and basic commands. *Corequisite: Hardware Essentials 10154102*

Microsoft Office-Introduction

10103106.....**3 credits** Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, PowerPoint, and Outlook) while reinforcing the students' knowledge of computer concepts, Windows Explorer, and web usage. Students should possess basic keyboarding, mouse and Windows 10 skills. Students may develop these skills in the LiNK while concurrently enrolled in this course.

Network Server Scripting

10150165**3 credits** Provides best practices and techniques in Linux and Windows shell and command line scripting using PowerShell

and BASH. Prerequisite: Hardware Essentials 10154102; Corequisite: Server Administration-Beginning 10150120

Networking I

10150110......3 credits

Introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, participants will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. This course is the first of four courses that align with CCNA certification. Covers the objectives of the first CCNA exam but is not designed or intended to be a "test prep" course.

Corequisite: English Composition 1 10801136

Networking II

10150111.....**3 credits** Describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. This course is the second of four courses that align with CCNA certification. Covers the objectives of the first CCNA exam but is not designed or intended to be a "test prep" course.

Prerequisites: Networking | 10150110 and Hardware Essentials 10154102

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Server Administration-Beginning

10150120.....**3 credits** 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; and application software installation, backup, and recovery. *Prerequisite: Hardware Essentials 10154102*

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Technical Reporting

10801197.....**3 credits** 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: English Composition I 10801136 with a grade of "C" or better or Written Communication 10801195 with a grade of "C" or better. Proficiency in word processing skills recommended.*

Think Critically & Creatively

10809103.....**3 credits** Provides instruction in the vital, realistic, and practical methods of thinking that are in high demand in all occupations of substance today. Provides in-depth consideration of decision making, problem solving, detailed analysis of ideas, troubleshooting, argumentation, persuasion, creativity, setting goals and objectives, and more. Students apply specific thinking strategies and tools to situations in a wide variety of workplace, personal, academic, and cultural situations. Classroom instruction is based on demonstration, discussion, projects, and teamwork. Assignments range from the short and simple to the detailed and complex. Focuses on reality and practicality throughout.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.



it network specialist

Associate in Applied Science (AAS) Program Code: 10-150-2 Total Credits: 63-64

The IT Network Specialist program at Mid-State prepares students to administer and support personal computer and network environments. Graduates are able to install, troubleshoot, analyze, and repair networks as well as maximize network efficiency. In this program you will follow guided instructions for setting up and managing multiple computers in a networking environment. You'll also apply concepts in hands-on activities both in and outside the classroom. Past students have repaired and imaged laptops for a local school district, completed a network upgrade for a nonprofit organization, and fixed computers at the PC Clinic.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

Follow-Up Appointment:

Where:	
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

Other:			



ADAMS CAMPUS 401 North Main Adams, WI 53910



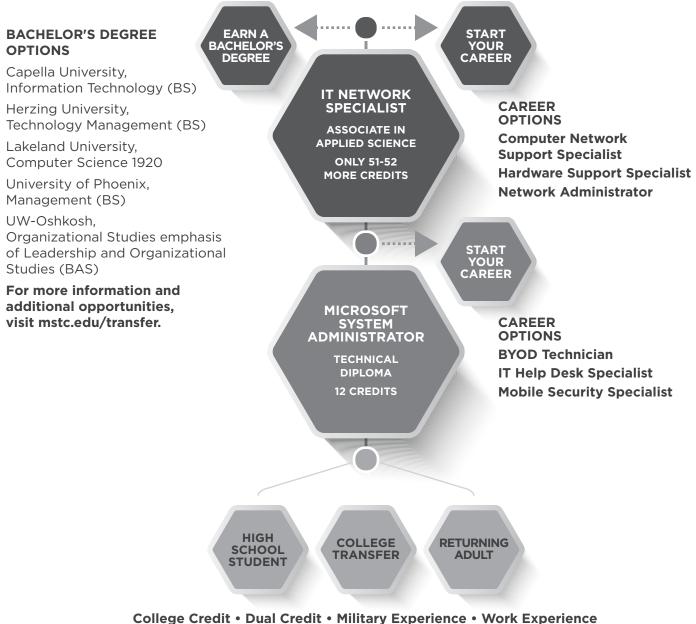
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Business Analyst
- IT Computer Support Specialist
- IT Security Specialist
- IT Software Developer

PROGRAM OUTCOMES

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

- Implement computer networks.
- Implement client systems.
- Implement server operating systems.
- Implement network security components.
- Develop technical documentation.
- Troubleshoot network systems.

TECHNICAL SKILLS ATTAINMENT

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. Students will complete an extensive project in the Advanced Networking Projects course to fulfill the TSA requirement.

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10150110 10151105 10152101 10154102 10801136	Networking I Linux Intro to Programming Hardware Essentials English Composition 1	15 credits 3 3 3 3 3 3 3
Term 10150111 10150120 10150165 10151110 10801196 10801198	Networking II Server Administration-Beginning Network Server Scripting Information Security I Oral/Interpersonal Communication Speech	15 credits 3 3 3 -or- 3
Term 10150112 10150121 10150130 10154132 10804107	18 Networking III Server Administration-Intermediate Virtualization Help Desk Fundamentals College Mathematics	-19 credits 3 3 3 3 3 3 3
10804118	Intermediate Algebra with Applicati	ions 4
10804189 10809103 10809195	Introductory Statistics Think Critically & Creatively -or- Economics	3 3
Term 10102130	Career Development -or-	15 credits 3
10150142	Network Specialist Internship	3
10801199 10150113 10150161 10809166 10809188 10809198	Employment Strategies Networking IV Advanced Networking Projects Intro to Ethics: Theory & Application Developmental Psychology -or- Intro to Psychology	3 3 1 3 3 3 3
	Total Cre	dits 63-64

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10150110 10151105 10154102	Networking I Linux Hardware Essentials	9 credits 3 3 3
Term 10150111 10151110 10150120	Networking II Information Security I Server Administration-Beginning	9 credits 3 3 3
Term 10801136 10801196 10801198	English Composition 1 Oral/Interpersonal Communication - Speech	6 credits 3 or- 3
Term 10152101 10150112 10150121	Intro to Programming Networking III Server Administration-Intermediate	9 credits 3 3 3
Term 10150165 10154132	Network Server Scripting Help Desk Fundamentals	6 credits 3 3
Term 10804107	College Mathematics	-7 credits 3
10804118	-or- Intermediate Algebra with Application- or-	ons 4
10804189 10809188	Introductory Statistics Developmental Psychology -or-	3
10809198 Term	Intro to Psychology	³ 9 credits
10102130	Career Development -or-	3
10150142	Network Specialist Internship	3
10801199 10150130	Employment Strategies Virtualization	3 3
10809103 10809195	Think Critically & Creatively -or- Economics	3
Term		9 credits
10150113 10150161	Networking IV Advanced Networking Projects	3 3 1 3
10809166	Intro to Ethics: Theory & Application	
	Total Crec	aits 63-64

course descriptions

Advanced Networking Projects

10150161.....**3 credits** In this capstone course students complete projects that incorporate networking skills gained from previous terms. Students demonstrate those skills by creating a project proposal, presenting a technical design, and/or implementing a project based onspecifications provided by the instructor.

Prerequisites: Information Security I 10151110 and Networking III 10150112

Career Development

10102130.....**3 credits** Prepares 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, and 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

College Mathematics

108041073 credits 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 and 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 US and metric systems, applying Pythagorean Theorem, solving right and obligue triangles. calculating probabilities, organizing data and interpreting charts, calculating central and spread measures, and summarizing and analyzing data.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Developmental Psychology

10809188.....**3 credits** Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Economics

10809195.....**3 credits** Provides an overview of how a market-oriented economic system operates and surveys the factors that 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Employment Strategies

10801199.....**3 credits** 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Hardware Essentials

101541023 credits The first in a two-course series that aligns with the CompTIA A+ certification. This class is designed to teach students how to build, configure, secure, network, and troubleshoot PCs. The course covers the objectives of the CompTIA A+ exams but is not designed or intended to be a "test prep" course. *Corequisite: English Composition 1 10801136*

Help Desk Fundamentals

10154132.....**3 credits** Provides the learner with the knowledge required to become a Help Desk Support technician. Students will learn fundamental Help Desk concepts such as: Help Desk operations, roles and responsibilities, processes and procedures, tools and technologies, individual and team performance measures, and how to provide support as a Help Desk professional.

Prerequisite: Hardware Essentials 10154102

Information Security 1

10151110.....**3 credits** Introduces students to the fundamentals of information security. Topics include security terms and concepts, risk assessment, cryptography, monitoring and auditing, attacks and techniques, and the legal and ethical issues associated with information security. *Prerequisite: Linux 10151105*

Intermediate Algebra with Applications

Intro to Ethics: Theory & Application

10809166.....**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Programming

10152101.....**3 credits** Applies the basic concepts of computer programming using JavaScript, with an emphasis on structured programming, debugging, and testing. Learners will create JavaScript applications. Additional topics include: online software development resources, programming and documentation standards, variable lifetime/scope, data types, control structures and mathematical calculations. *Corequisite: English Composition 1 10801136*

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introductory Statistics

10804189.....**3 credits** 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: High School GPA of 3.0 or Accuplacer QAS 241 or ACT of 19 or Pre-Algebra 834109 with a grade of "C" or better or College Math 804107 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Linux

10151105.....**3 credits** Covers introductory Linux topics, including operating system basics, system installation, file system management, file system administration, and basic commands. *Corequisite: Hardware Essentials 10154102*

Network Server Scripting

10150165**3 credits** Provides best practices and techniques in Linux and Windows shell and command line scripting using PowerShell and BASH.

Prerequisite: Hardware Essentials 10154102; Corequisite: Server Administration-Beginning 10150120

Network Specialist Internship

10150142**3 credits** Integrates networking skill developed in classroom study with specific occupational experiences at local employment sites. 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.

Networking I

10150110.....**3 credits** Introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, participants will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. This course is the first of four courses that align with CCNA certification. Covers the objectives of the first CCNA exam but is not designed or intended to be a "test prep" course.

Corequisite: English Composition 1 10801136

Networking II

10150111.....**3 credits** Describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. This course is the second of four courses that align with CCNA certification. Covers the objectives of the first CCNA exam but is not designed or intended to be a "test prep" course.

Prerequisites: Networking I 10150110 and Hardware Essentials 10154102

Networking III

10150112.....**3 credits** Describes the architecture, components, and operations of routers and switches in a large and complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students are able to configure and troubleshoot routers and switches and resolve common issues with dynamic routing protocols and trunking technologies. This course is the third of four courses that aligns with the CCNA certification. The course covers the objectives of the second CCNA exam but is not designed or intended to be a "test prep" course. *Prerequisite: Networking II 10150111*

Networking IV

10150113.....**3** credits Discusses the WAN technologies and network services required by converged applications in a complex network. The course allows students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students will learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Also develops the knowledge and skills needed to implement virtual private network (VPN) operations in a complex network. This course is the final course in a series of four courses that aligns with the CCNA certification. The course covers the objectives of the second CCNA exam but is not designed or intended to be a "test prep" course. *Prerequisite: Networking III 10150112*

Oral/Interpersonal Communication 108011963 credits

Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Server Administration-Beginning

10150120.....**3 credits** 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; and application software installation, backup, and recovery. *Prerequisite: Hardware Essentials 10154102*

Server Administration-Intermediate

10150121.....**3 credits** Expands on 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: Server Administration-Beginning 10150120

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Think Critically & Creatively

10809103**3 credits** Provides instruction in the vital, realistic, and practical methods of thinking that are in high demand in all occupations of substance today. Provides in-depth consideration of decision making, problem solving, detailed analysis of ideas, troubleshooting, argumentation, persuasion, creativity, setting goals and objectives, and more. Students apply specific thinking strategies and tools to situations in a wide variety of workplace, personal, academic, and cultural situations. Classroom instruction is based on demonstration, discussion, projects, and teamwork. Assignments range from the short and simple to the detailed and complex. Focuses on reality and practicality throughout.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Virtualization

10150130.....**3 credits** This course introduces students to virtualization and virtualization technologies like VMware. In this course students will get first hand experience using ESXi, vSphere, vCenter, vMotion, storage types, vSwitches, and high availability. This course aligns with the VCP-DCV certification. The course covers the objectives of the VCP-DCV exam but is not designed nor intended to be a "test prep" course.

Prerequisite: Server Administration-Beginning 10150120



it security specialist

Associate in Applied Science (AAS) Program Code: 10-151-3 Total Credits: 60-61

Graduates of this program understand the security measures needed to safeguard an organization's electronic files and computer networking infrastructure. Students will be involved in planning, implementing, and monitoring information technology security systems. Through hands-on projects, you will learn ethical hacking techniques in order to fully understand network vulnerabilities. You will also learn effective ways to implement intrusion detection systems to mitigate security risks. Includes demonstration of the use of computer forensics to help track down and stop potential information security breaches.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:	
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481
 Other:

ould.	



ADAMS CAMPUS 401 North Main Adams, WI 53910



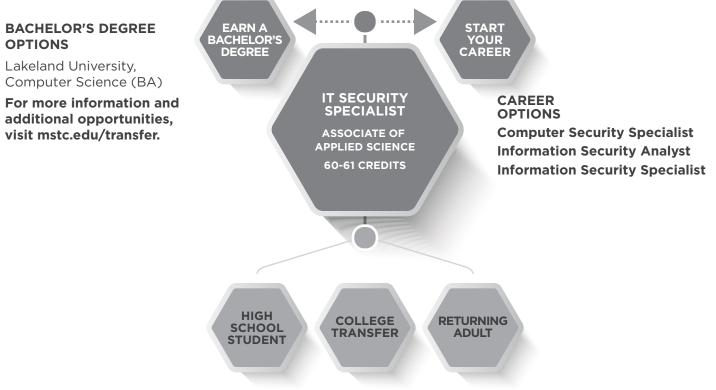
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Business Analyst
- IT Computer Support Specialist
- IT Network Specialist
- IT Software Developer
- Microsoft System Administrator

PROGRAM OUTCOMES

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

- Identify security strategies.
- Implement secure infrastructures.
- Conduct security testing.
- Analyze security data.
- Mitigate risk.
- Develop security documentation.

TECHNICAL SKILLS ATTAINMENT

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. Students will complete a project in the IT Security Capstone course to fulfill the TSA requirements.

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10150110 10151105 10152101 10154102 10801136	Networking I Linux Intro to Programming Hardware Essentials English Composition 1	15 credits 3 3 3 3 3 3 3		
Term 10150111 10150120 10150165 10151110 10801196 10801198	Networking II Server Administration-Beginning Network Server Scripting Information Security 1 Oral/Interpersonal Communication - Speech	15 credits 3 3 3 •or- 3		
Term 10150112 10151111 10804107 10804118 10809103	15- Networking III Information Security 2 College Mathematics -or- Intermediate Algebra with Application Think Critically & Creatively	16 credits 3 3 3 ons 4 3		
Term 10102130 10151141 10801199 10151112 10151160 10151161 10809188 10809198	Intro to Ethics: Theory & Application			
Total credits 60-61				

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10150110 10151105 10154102	Networking I Linux Hardware Essentials	9 credits 3 3 3		
Term 10150111 10150120 10151110	Networking II Server Administration-Beginning Information Security 1	9 credits 3 3 3		
Term 10801136 10801196 10801198	English Composition 1 Oral/Interpersonal Communication Speech	6 credits 3 -or- 3		
Term 10152101 10150112 10151111	Intro to Programming Networking III Information Security 2	9 credits 3 3 3		
Term 10809103 10150165	Think Critically & Creatively Network Server Scripting	6 credits 3 3		
Term 10804107	College Mathematics	6-7 credits 3		
10804118 10809166	-or- Intermediate Algebra with Application Intro to Ethics: Theory & Application			
Term 10102130	Career Development -or-	6 credits		
10151141 10801199 10809188	IT-Security Internship -or- Employment Strategies Developmental Psychology -or-	3		
10809198	Intro to Psychology	3		
Term 10151112 10151160 10151161	Information Security 3 Ethical Hacking IT Security Capstone	9 credits 3 3 3		
Total credits 60-61				

Career Development

10102130.....**3 credits** Prepares 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, and 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

College Mathematics

108041073 credits 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 and 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 US and metric systems, applying Pythagorean Theorem, solving right and obligue triangles, calculating probabilities, organizing data and interpreting charts, calculating central and spread measures, and summarizing and analyzing data.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Developmental Psychology

10809188.....**3 credits** Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Employment Strategies

10801199.....**3 credits** 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Ethical Hacking

10151160.....**3 credits** Introduces the techniques hackers use to discover vulnerabilities. Students will learn ways to tighten the network security to protect the exposed data from the discovered vulnerabilities. Focus is on penetration-testing tools and techniques that security testers and ethical hackers use to protect computer networks. *Prerequisite: Information Security 2 10151111; Corequisite: Information Security 3 10151112*

Hardware Essentials

101541023 credits The first in a two-course series that aligns with the CompTIA A+ certification. This class is designed to teach students how to build, configure, secure, network, and troubleshoot PCs. The course covers the objectives of the CompTIA A+ exams but is not designed or intended to be a "test prep" course. *Corequisite: English Composition 1 10801136*

Information Security 1

10151110.....**3 credits** Introduces students to the fundamentals of information security. Topics include security terms and concepts, risk assessment, cryptography, monitoring and auditing, attacks and techniques, and the legal and ethical issues associated with information security. *Prerequisite: Linux 10151105*

Information Security 2

10151111.....**3 credits** Introduces students to intrusion detection tools, network security design, various types of network firewalls, and the basics of VPN configuration. A solid understanding of LAN/ WAN fundamentals is required for this course. *Prerequisite: Information Security 1 10151110*

Information Security 3

This course explores security incidents and intrusions, including identifying and categorizing incidents. Students will be responding to incidents, and analyzing logs and network traffic. Additionally, students will be utilizing various tools and creating an incident response team. *Prerequisite: Information Security 2 10151111*

Intermediate Algebra with Applications

10804118......**4 credits** 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; and algebra of inverse, logarithmic, and exponential functions. *Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 263 and QAS 234 or ACT of 19 or QAS of 245, or Pre-Algebra 10834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Intro to Ethics: Theory & Application

10809166**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Programming

10152101.....**3 credits** Applies the basic concepts of computer programming using JavaScript, with an emphasis on structured programming, debugging, and testing. Learners will create JavaScript applications. Additional topics include: online software development resources, programming and documentation standards, variable lifetime/scope, data types, control structures and mathematical calculations. *Corequisite: English Composition 1 10801136*

Intro to Psychology

108091983 credits

This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

IT Security Capstone

10151161.....**3 credits** In this capstone course students complete a project that incorporates skills gained from previous terms. Students demonstrate those skills by creating a project proposal, presenting a technical design, and/or implementing a project based on specifications provided by the instructor. *Prerequisite: Information Security 2 10151111; Corequisite: Information Security 3 10151112*

IT-Security Internship

10151141.....**3 credits** Integrates skills developed in classroom study with specific occupational experiences at local employment sites and develops work behavior appropriate to the business environment.

Prerequisite: Networking III 10150112

Linux

10151105.....**3 credits** Covers introductory Linux topics, including operating system basics, system installation, file system management, file system administration, and basic commands. *Corequisite: Hardware Essentials 10154102*

Network Server Scripting

10150165**3 credits** Provides best practices and techniques in Linux and Windows shell and command line scripting using PowerShell and BASH.

Prerequisite: Hardware Essentials 10154102; Corequisite: Server Administration-Beginning 10150120

Networking I

10150110......3 credits

Introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, participants will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. This course is the first of four courses that align with CCNA certification. Covers the objectives of the first CCNA exam but is not designed or intended to be a "test prep" course.

Corequisite: English Composition 1 10801136

Networking II

10150111.....**3 credits** Describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. This course is the second of four courses that align with CCNA certification. Covers the objectives of the first CCNA exam but is not designed or intended to be a "test prep" course.

Prerequisites: Networking I 10150110 and Hardware Essentials 10154102

Networking III

101501123 credits Describes the architecture, components, and operations of routers and switches in a large and complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students are able to configure and troubleshoot routers and switches and resolve common issues with dynamic routing protocols and trunking technologies. This course is the third of four courses that aligns with the CCNA certification. The course covers the objectives of the second CCNA exam but is not designed or intended to be a "test prep" course. *Prerequisite: Networking II 10150111*

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Server Administration-Beginning 101501203 credits

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; and application software installation, backup, and recovery. *Prerequisite: Hardware Essentials 10154102*

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Think Critically & Creatively

10809103**3** credits Provides instruction in the vital, realistic, and practical methods of thinking that are in high demand in all occupations of substance today. Provides in-depth consideration of decision making, problem solving, detailed analysis of ideas, troubleshooting, argumentation, persuasion, creativity, setting goals and objectives, and more. Students apply specific thinking strategies and tools to situations in a wide variety of workplace, personal, academic, and cultural situations. Classroom instruction is based on demonstration, discussion, projects, and teamwork. Assignments range from the short and simple to the detailed and complex. Focuses on reality and practicality throughout.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.



it software developer

Associate in Applied Science (AAS) Program Code: 10-152-1 Total Credits: 63-64

Graduates of Mid-State's IT Software Developer program have the skills needed to design, develop, and maintain software and software systems on a wide variety of computing devices and to meet the spectrum of business needs. You'll learn to create software to run on all platforms including network servers, desktop workstations, web pages, and Android and iOS mobile devices. You will use state-of-the-art equipment and work in teams to design, develop, test, and implement small-scale software systems for nonprofit organizations or simulated clients.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)	
Form(s):	

□ Follow-Up Appointment:

Where: _	
When:	

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Other: _____
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ADAMS CAMPUS 401 North Main Adams, WI 53910



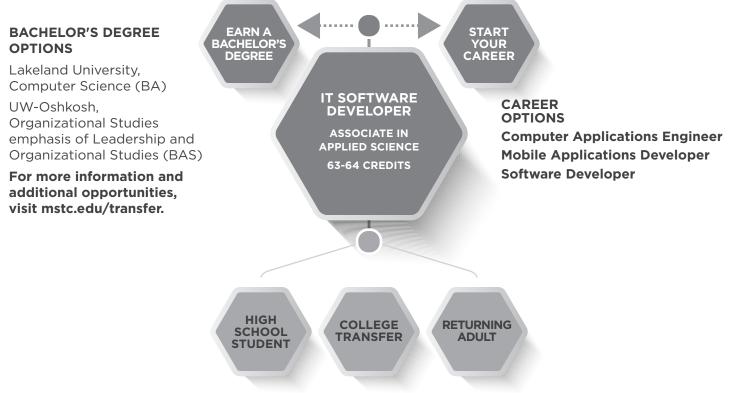
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Business Analyst
- IT Computer Support Specialist
- IT Network Specialist
- IT Security Specialist
- Microsoft System Administrator

APPRENTICESHIP OPPORTUNITIES

• IT Software Developer Apprenticeship

PROGRAM OUTCOMES

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

- Design software systems.
- Integrate database systems.
- · Develop software applications.
- Develop technical documentation.

TECHNICAL SKILLS ATTAINMENT

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. Students will complete the TSA requirement in the Application Development Capstone course.

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term	15-16 cm	edits
10152101 10152121	Intro to Programming Object-Oriented Programming 1	3 3
10152150	Web Design 1	3
10801136	English Composition 1	3 3 3
10804107	College Mathematics	3
10804118	Intermediate Algebra with Applications -or-	4
10804189	Introductory Statistics	3
Term	15 cr	
10152122	Object-Oriented Programming 2	3
10152159 10152174	User Experience Design Collaborative Application Development	3 3 3
10152174	Database Concepts and Design	3
10801196	Oral/Interpersonal Communication -or-	
10801198	Speech	3
Term	18 cr	
10150110	Networking I	3
10152123 10152155	Object-Oriented Programming 3	3 3
10152155	Web Programming 1 Introductory Mobile	5
10132100	Application Development	3
10152175	Software Architecture	3 3 3
10156102	SQL Development	3
Term	15 cm	edits
10102130	Career Development -or-	
10152161	Intermediate Mobile Application Development -or-	
10152177	Software Developer Internship -or-	
10801199	Employment Strategies	3
10152158	Web Programming 2	3 3 3 3
10152176	Application Development Capstone	3
10809166 10809188	Intro to Ethics: Theory & Application Developmental Psychology -or-	3
10809188	Intro to Psychology	3
10000100	into to respondered	Ũ
	Total credits 6	3-64

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10152101 10152121	Intro to Programming Object-Oriented Programming 1	9 credits 3 3 3
10152150	Web Design 1	3
Term 10152122 10152174 10156101	Object-Oriented Programming 2 Collaborative Application Developm Database Concepts and Design	9 credits 3 ent 3 3
Term	6	-7 credits
10801136 10804107	English Composition 1 College Mathematics -or-	3 3
10804118	Intermediate Algebra with Application	ons 4
10804189	-or- Introductory Statistics	3
Term 10152123 10152155 10156102	Object-Oriented Programming 3 Web Programming 1 SQL Development	9 credits 3 3 3
Term 10150110 10152158 10152159	Networking I Web Programming 2 User Experience Design	9 credits 3 3 3
Term		6 credits
10801196 10801198 10809166	Oral/Interpersonal Communication - Speech Intro to Ethics: Theory & Application	3
Term		9 credits
10152160	Introductory Mobile Application Development	3
10152175 10809188	Software Architecture Developmental Psychology -or-	3
10809198	Intro to Psychology	3
Term		6 credits
10102130 10152161	Career Development -or- Intermediate Mobile	
10152177	Application Development -or- Software Developer Internship -or-	
10801199	Employment Strategies	3
10152176	Application Development Capstone	3
	Total cred	lits 63-64

course descriptions

Application Development Capstone

10152176.....**3 credits** This course is the culmination of all prior coursework. Learners form small teams, each identifying, designing, and implementing an attractive and usable software application. Project teams each use Agile software development principles to manage their projects, communicate project status, adapt to changing requirements, and overcome technical challenges. Students will choose the technology they wish to use in developing their application, and will leverage the Atlassian suite of products to manage their project. Additional topics include a review of the Agile software development methodology.

Prerequisites: Software Architecture 10152175, Web Programming 1 10152155, SQL Development 10156102, Object-Oriented Programming 3 10152123, and Introductory Mobile Application Development 10152160

Career Development

10102130.....**3 credits** Prepares 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, and 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

Collaborative Application Development

10152174.....**3 credits** Introduces the Agile software, development methodology, and applies it to managing a software development project. Learners will work in small teams, taking an application through its entire lifecycle including the phases of requirements gathering, analysis, design, development, testing, deployment, and maintenance. Additional topics include an introduction to the following disciplines and related tools: team rules, peer and code reviews, pair programming, stakeholder communication, client meeting planning, project management, version control, issue tracking, unit/regression testing, software licensing, and automated build/deployment.

Prerequisites: Web Design 1 10152150 and Intro to Programming 10152101; Corequisite: Speech 10801198

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Database Concepts and Design

10156101.....**3 credits** Introduces the concepts of relational database design, development, and maintenance. Topics include relational normalization, referential integrity, and Structured Query Language (SQL).

Corequisite: English Composition 1 10801136

Developmental Psychology

10809188.....**3 credits** Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Employment Strategies

10801199.....**3 credits** 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Intermediate Algebra with Applications

Intermediate Mobile Application Development

10152161.....**3 credits** Provides instruction in developing software applications for mobile devices building upon the knowledge gained in Introductory Mobile Application Development. *Prerequisite: Introductory Mobile Application Development 10152160*

Intro to Ethics: Theory & Application

10809166.....**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Programming

101521013 credits

Applies the basic concepts of computer programming having learners build JavaScript applications, with an emphasis on problem solving, structured programming, debugging, and testing. Additional topics include: online software development resources, programming and documentation standards, variable lifetime/scope, data types, control structures (conditions and iterations) and mathematical calculations.

Corequisite: English Composition 1 10801136

Intro to Psychology

108091983 credits

This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introductory Mobile Application Development

10152160.....**3 credits** Provides instruction in developing software applications for mobile devices using the Microsoft Visual Studio and Xamarin. *Prerequisite: Object-Oriented Programming 2 10152122, Collaborative Application Development 10152174, and Database Concepts and Design 10156101 or consent of instructor*

Introductory Statistics

10804189**3 credits** 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: High School GPA of 3.0 or Accuplacer QAS 241 or ACT of 19 or Pre-Algebra 834109 with a grade of "C" or better or College Math 804107 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Networking I

10150110.....**3** credits Introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, participants will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. This course is the first of four courses that align with CCNA certification. Covers the objectives of the first CCNA exam but is not designed or intended to be a "test prep" course.

Corequisite: English Composition 1 10801136

Object-Oriented Programming 1

110152121.....**3 credits** Introduces object-oriented programming and design, with a focus on building the conceptual framework necessary to understand and build object-oriented programs. This course uses C# .NET, and the Unified Modeling Language (UML), to present concepts from a variety of perspectives. Learners will create UML diagrams and write/debug C# .NET applications, applying the object-oriented basics of abstraction, encapsulation, inheritance and polymorphism. Additional topics include: object instantiation/lifetime/ scope, methods, properties, visibility modifiers and collections/multiplicity.

Corequisites: Intro to Programming 10152101 and College Math 10804107

Object-Oriented Programming 2

10152122.....**3 credits** Builds upon the object-oriented concepts learned in Object-Oriented Programming 1, continuing with an in-depth application of object-oriented SOLID design principles and patterns, including: don't repeat yourself, principle of least knowledge, single responsibility, factory patterns, strategy pattern, and others. Additional topics include delegates, iterators, sorting and data structures. *Prerequisite: Object-Oriented Programming 1 10152121*

Object-Oriented Programming 3

10152123.....**3 credits** Builds upon the object-oriented concepts learned in earlier OOP courses. Learners will spend time building JAVA applications and describing many of the common OOP design patterns they are utilizing, including: factory, strategy, observer, decorator, state, singleton, adapter, facade, command, and more.

Prerequisite: Object-Oriented Programming 2 10152122

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Software Architecture

10152175......3 credits Introduces N-tier software architecture through the exploration of various data access methodologies. Learners will work in Agile teams to create a C# .NET application comprised of data access, business and presentation layers using MVVM architecture. The application will access data from Microsoft SQL Server using a variety of object-relational mapping (ORM) frameworks. Additional development topics include ADO.NET. LINQ. Entity Framework and objectoriented databases. Additional team dynamics topics include communication and written tone, resolving team conflicts, team accountability, and client communication during requirements gathering, and peer evaluations. Prerequisites: Collaborative Application Development 10152174, Object-Oriented Programming 2 10152122, and Database Concepts and Design 10152156

Software Developer Internship

10152177.....**3 credits** Integrates software development skills developed in classroom study with specific occupational experiences at local employment sites. Develops work behavior appropriate to the computer information systems environment. *Prerequisite: Completion of at least 18 credits in IT Software Developer courses or consent of instructor*

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

SQL Development

10156102.....**3 credits** Expands on Database Concepts and Design, with advanced SQL syntax (indexes, views, stored procedures, and triggers), database design, and data transformation. Additional topics include alternate database technologies, data warehousing, emerging database trends, and database administration and security.

Prerequisites: Database Concepts and Design 10156101 and Introduction to Programming 10152101

User Experience Design

10152159......3 credits Examines the design, prototyping, and evaluation of user interfaces. Learners will apply user experience standards in the development of web and software interfaces to provide a quality user experience. Topics include psychological and interaction principles (including ADA and international standards), requirements analysis, designing for different devices, style guides, usability testing, and visual design principles.

Prerequisite: Web Design 1 10152150

Web Design 1

Introduces HTML and Cascading Style Sheets (CSS) coding techniques. Learners will create/modify web pages using HTML tags and style the web pages with CSS and JavaScript. For the final course project, learners will create a personal website portfolio. Additional topics include copyright considerations, text editors, image optimization, FTP utilities, and browser tools.

Corequisite: English Composition 1 10801136

Web Programming 1

10152155......3 credits

Using php to develop web applications with server-side components, the student creates and demonstrates data connectivity to the web. Additional tools may include elements of the following languages/technologies: HTML, CSS, JavaScript, jQuery, SQL, and bootstrap. Students write applications that retrieve data from a database for display to the web browser and capture data for storage from a web form. Additional topics include Object-Orientation and MVC. Prerequisites: Web Design 1 10152150, Intro to Programming 10152101, Database Concepts and Design 10156101, and Object-Oriented Programming 1 10152121

Web Programming 2

10152158......3 credits Builds on Web Programming 1. Discuss more advanced JavaScript topics including Angular, callbacks, and chaining. Introduce NOSQL using Mongo. Additional topics include type script, imports/exports, templates, binding, form controls, and minimal discussion of other frameworks. Prerequisites: Web Programming 1 10152155



leadership development

Associate in Applied Science (AAS) Program Code: 10-196-1 Total Credits: 60

Designed for individuals currently employed and working closely with their employer on skill development, Mid-State's Leadership Development program prepares students for success in effectively managing processes and inspiring a diverse workforce. In this program you'll develop the technical and interpersonal skills needed to lead the operations of a business including helping organizations adapt to change, encouraging innovation, displaying a variety of effective leadership skills, demonstrating critical-thinking skills, and using communication skills appropriate in a professional and collaborative environment. You'll grow your skills in planning, finance, team building, leadership, safety, project management, decision making, talent development, supervision, innovation, and the use of software. Every course directly applies learning to the student's real-world work environment through various projects. As a graduate of the Leadership Development associate degree, you'll be prepared for leadership roles in any organization.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

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CHECKLIST:

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□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

Follow-Up Appointment:
 Where: ______

When:		
With:		

Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

Other:			



ADAMS CAMPUS 401 North Main Adams, WI 53910



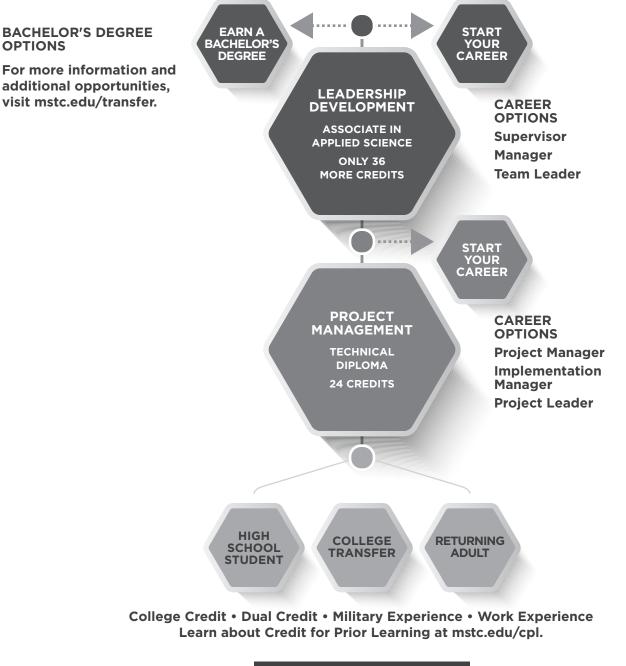
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway





OTHER OPTIONS

RELATED PROGRAMS

- Administrative Professional
- Business Management
- Customer Relationship
 Professional
- EntrepreneurshipHuman Resources
- Assistant
- Office Support Specialist

PROGRAM OUTCOMES

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

- Utilize quality strategies and tactics.
- Apply effective leadership skills.
- Apply human resource policies and procedures.
- Perform supervisory management functions to achieve organizational objectives.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10102121 10103106 10196190 10804107 10809166	1 Finance and Budgeting* Microsoft Office-Introduction* Leadership Development* College Mathematics* Intro to Ethics: Theory & Application*	5 credits 3 3 3 3 3 3 3
Term 10102214 10196188 10196189 10801136 10809172	1 Continuous Improvement Project Management* Team Building & Problem Solving* English Composition I* Introduction to Diversity Studies*	5 credits 3 3 3 3 3 3 3
Term 10196136 10196191 10196192 10801196 10809198	1 Managing Risk & Safety* Supervision* Managing for Quality* Oral/Interpersonal Communication* Intro to Psychology*	5 credits 3 3 3 3 3 3 3
Term 10196135 10196138 10196139 10546110 10623171	Conflict Resolution* Training & Talent Development* Workplace Innovation Mental Wellness and Stress Managem Lean Six Sigma*	5 credits 3 3 nent* 3 3 redits 60

* This course may also be offered in a different term including during winterim or summer terms, with 3-week, 8-week, or 16-week sessions available. A variety of modalities and class lengths may be available, including online, hybrid, TelePresence, or face to face.

Please Note:

- Students complete a full-time course load over a 16-week term. This term may include a combination of classes taken in an 8-week session and classes taken over the full 16-week term.
- 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. For details, go to **mstc.edu/classfinder**.

NOTES:

SAMPLE PART-TIME CURRICULUM OPTION

Term 10103106 10196190 10809172	Microsoft Office-Introduction* Leadership Development* Introduction to Diversity Studies*	9 credits 3 3 3 3
Term 10102121 10804107 10809166	Finance and Budgeting* College Mathematics* Intro to Ethics: Theory & Application	9 credits 3 3 * 3
Term 10102214 10196189 10801136	Continuous Improvement Team Building & Problem Solving* English Composition I*	9 credits 3 3 3
Term 10196188 10196191 10801196	Project Management* Supervision* Oral/Interpersonal Communication*	9 credits 3 3 3 3
Term 10196136 10196192 10809198	Managing Risk & Safety* Managing for Quality* Intro to Psychology*	9 credits 3 3 3 3
Term 10196135 10546110 10623171	Conflict Resolution* Mental Wellness and Stress Manager Lean Six Sigma*	9 credits 3 nent* 3 3
Term 10196138 10196139	Training & Talent Development* Workplace Innovation	6 credits 3 3
	Total o	redits 60

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Conflict Resolution

10196135.....**3 credits** Students will apply different conflict resolution techniques that can be used by a manager or leader within an organization given real-world scenarios. Students will also evaluate the importance of consultation, team building, trust, and win-win outcomes from a managerial standpoint in the resolution of organizational conflict.

Continuous Improvement

10102214**3 credits** Emphasizes using data to make sound business decisions. Students gain exposure to various tools used to assemble, organize, and manage data sets. Students further refine their skills in requirements documentation and validation by tracing and prioritizing solution requirements. Students also identify, measure, and validate solution requirements to support organizational change while complying with organizational standards.

Prerequisite: Business Analyst Essentials 10102210 or admission to Leadership Development Program 101961

English Composition 1

10801136.....**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Finance and Budgeting

10102121.....**3 credits** For the nonfinancial manager, this course introduces the language of accounting, finance, and budgeting. Provides an overview of the use and analysis of financial statements. Business planning and the foundations and development of budgets are explored. Business financing basics and the securing of necessary financing for a business are covered. Practical application of financial statement creation and analysis, budgetary activities, and finance calculations are included.

Intro to Ethics: Theory & Application

10809166**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Diversity Studies

10809172.....**3 credits** 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Leadership Development

10196190.....**3 credits** Applies skills and tools necessary to fulfill his/her role as a modern leader. Each learner evaluates 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.

Lean Six Sigma

10623171.....3 credits Learners will examine two models of problem solving/ continuous improvement (the PDCA/PDSA and the DMAIC models). Learners will utilize an A3 report to identify the current process condition, identify improvement goals, establish root causes, specify improvement activities, and confirm results. Learners will utilize the seven SPC (Statistical Process Control) tools and selected Quality Management Tools in the improvement process. Learners will examine the steps of planning and executing a Kaizen Event as well as supporting daily Kaizen activities. *Prerequisite: Admission to Manufacturing Operations Management program 101965 or Leadership Development program 101961*

Managing for Quality

10196192.....3 credits 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 systemsfocused approach, use quality models and tools, manage a quality improvement project, and measure effectiveness of continuous improvement activities.

Managing Risk & Safety

10196136**3 credits** This course is designed for students to understand the basics concepts of risk assessment, risk mitigation, workplace hazards, and safety practices. Students will examine personal, physical, environmental, and virtual safety policies and practices as part of this course.

Mental Wellness and Stress Management

10546110.....**3 credits** Investigate the underpinnings of mental health and wellness. Explore the risks of stress and emotional management techniques to mitigate these risks by embracing a growth mindset. The learner will be engaged in processes to support the emotional dimension of health and demonstrate ways to implement these practices for oneself and others along their wellness journey.

Microsoft Office-Introduction

10103106.....**3 credits** Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, PowerPoint, and Outlook) while reinforcing the students' knowledge of computer concepts, Windows Explorer, and web usage. Students should possess basic keyboarding, mouse, and Windows 10 skills. Students may develop these skills in the LiNK while concurrently enrolled in this course.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Project Management

10196188......3 credits Applies skills and tools necessary to design, implement, and evaluate formal projects. Each learner writes a project proposal, works with project teams, sequences project tasks, develops project budgets, identifies project resources, implements the project, charts project progress, deals with variations, evaluates the project, and uses various technology in these processes.

Supervision

10196191.....**3 credits** Applies 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.

Team Building & Problem Solving

10196189**3 credits** Applies 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, uses a systematic problem-solving process, and employs consensus-building and conflict-management strategies.

Training & Talent Development

10196138......3 credits Students will explore the building blocks used to manage the performance of individuals, teams, and total organizations.

Workplace Innovation

10196139.....3 credits This capstone course is designed to inspire innate creativity to help launch major projects or untangle difficult situations. It focuses on providing fresh insight and new perspective on even the most routine elements of any job and to view problem solving as a creative opportunity. Students will tackle real-world workplace issues and learn to create innovative and workable solutions for the good of the organization. *Corequisites: Managing Risk & Safety 10196136, Lean Six Sigma 10623171, and Training & Talent Development 10196138*



liberal arts-associate of arts

Associate of Arts (AA) Program Code: 20-800-1 Total Credits: 60

Students in the Liberal Arts-Associate of Arts (University Transfer) program take courses to meet the general requirements of a four-year degree, just like at a four-year campus. Through inquiry, observation, and analysis, students gain knowledge and skills in the arts and sciences, which enable them to broaden their perspective, increase problem-solving skills, and express themselves effectively in both writing and speaking. Students take courses within a core curriculum, with an emphasis on social sciences and humanities.

The Liberal Arts-Associate of Arts program is a special partnership with Nicolet College. Students will receive all the cost savings and the convenience of a complete liberal arts transfer degree while taking classes at a Mid-State Technical College campus, online, or via TelePresence.

Students complete coursework at Mid-State and graduate with a Nicolet Liberal Arts-Associate of Arts degree.

Students who complete an associate degree often have the benefit of a degree-to-degree transfer, where universities grant junior status and automatically waive specific lower-division requirements, such as general degree requirements, regardless of individual courses taken at Mid-State Technical College.

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ Mid-State Technical College Application
- Nicolet College Enrollment Packet
- Tailwinds Placement Assessment
- FAFSA (www.fafsa.gov) Nicolet College FAFSA Code 008919
- Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

Ц	Follow-Up Appointment:
	Where:
	When:
	With:
	Other:



ADAMS CAMPUS 401 North Main Adams, WI 53910



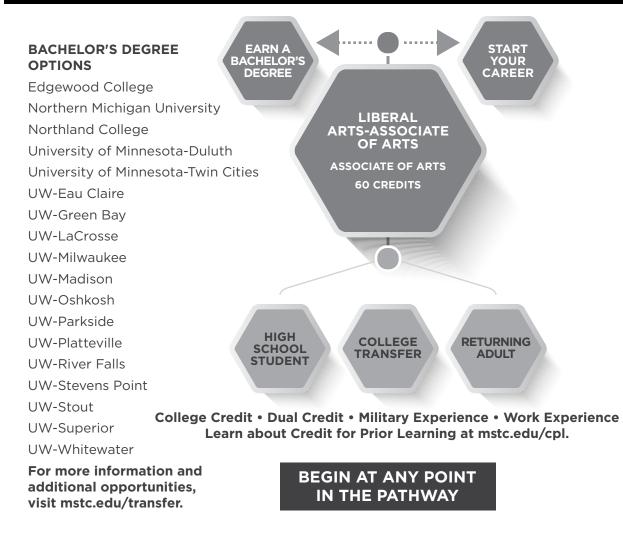
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



OTHER OPTIONS

RELATED PROGRAMS

• Liberal Arts-Associate of Science

PROGRAM OUTCOMES

Employers will expect you, as an Liberal Arts-Associate of Arts graduate, to be able to:

- Employ effective verbal and nonverbal communication skills in diverse professional and social contexts.
- Demonstrate quantitative reasoning skills at the appropriate undergraduate level.
- Demonstrate critical thinking skills at the appropriate undergraduate level.
- Demonstrate effective use of scientific method skills in a variety of contexts at the appropriate undergraduate level.
- Demonstrate an understanding of the social, cultural, political, and historical dimensions of our world at the appropriate undergraduate level.
- Demonstrate a heightened awareness of our physical, chemical, and biological environment at the appropriate undergraduate level.
- Demonstrate an increased responsibility for self-directed learning and personal wellness.

ENTRANCE REQUIREMENT

UW Placement:

- Algebra 300+
- Intermediate Algebra 365+
 Tradick Conservation 775
- English Composition 335+

Tailwind Placement Exams:

- Intermediate Algebra 40-41
- English Composition Reading Comp & Writing Mechanics 70-99

NOTES:



STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum admission requirements.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Pre-Algebra

10834109**3 credits** 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.

PROGRAM CURRICULUM

English (6 credits):

• 10801136 English Composition 1 (Mid-State Option)

• 20801223 English Composition II (Nicolet Option)

Speech (3 credits):

• 10801198 Speech

Humanities (12 credits):

Must include courses in at least two disciplines: art, history, journalism/writing, literature, music, philosophy, theatre/film, world language.

Mid-State Options:

- 10809122 Intro to American Government
- 10809166 Introduction to Ethics: Theory & Application

See also Nicolet Humanities courses for additional options.

Social Science (12 credits):

Must include courses in at least two disciplines: anthropology, economics, geography, history, political science, psychology, sociology.

Mid-State Options:

- 10809103 Think Critically & Creatively
- 10809122 Intro to American Government
- 10809172 Introduction to Diversity Studies
- 10809188 Developmental Psychology
- 10809195 Economics
- 10809196 Intro to Sociology
- 10809198 Intro to Psychology

See also Nicolet courses for additional options.

Mathematics & Natural Science (10 credits):

Must include mathematics at the level of Intermediate algebra, statistics, quantitative reasoning, elementary math education or higher and seven credits of natural science (one lab course required) chosen from biology, chemistry, geography (selected courses), geology, and physics.

Mid-State Options:

- 10804118 Intermediate Algebra with Applications
- 10804189 Introductory Statistics
- 10806134 General Chemistry
- 10806154 General Physics 1
- 10806177 General Anatomy & Physiology
- 10806179 Advanced Anatomy & Physiology
- 10806197 Microbiology

See also Nicolet courses for additional options.

World Language (4 credits):

May be met with one year high school, with a grade of "C" or better, or one semester in college.

Health/Wellness/Physical Education (1 credit)

Diversity and Ethnic Studies

Courses that meet this requirement may also count toward Humanities or Social Science. These credits are not in addition to the 60 credits required for the degree.

- 10809172 Introduction to Diversity Studies
- 10809196 Intro to Sociology

Electives (12-16 credits):

Select any college transfer courses beyond the minimum requirements. One credit of health and PE beyond the Health/Wellness/PE credit may be selected.

May be 16 credits if students satisfy the world language requirement with one year of high school ("C" or better).

NOTES:

ALL COURSES FOR LIBERAL ARTS

Mid-State Technical College Courses: Communication

- 10801136 English Composition 1
- 10801198 Speech

Mathematics & Natural Science

- 10804118 Intermediate Algebra with Applications
- 10804189 Introductory Statistics
- 10804195 College Algebra with Applications
- 10804196 Trigonometry with Applications
- 10806134 General Chemistry
- 10806154 General Physics 1
- 10806177 General Anatomy & Physiology
- 10806179 Advanced Anatomy & Physiology
- 10806197 Microbiology

Social Science

- 10809103 Think Critically & Creatively
- 10809122 Intro to American Government**
- 10809166 Introduction to Ethics: Theory & Application**
- 10809172 Introduction to Diversity Studies***
- 10809188 Developmental Psychology
- 10809195 Economics
- 10809196 Intro to Sociology***
- 10809198 Intro to Psychology

For more information, visit mstc.edu/programs/liberal-arts-arts

Nicolet College Courses: English and Literature

- 20810201 Fundamentals of Speech
- 20801219 English Composition I
- 20801223 English Composition II
- 20801227 Creative Writing
- 20801233 Children's Literature

Mathematics and Natural Science

- 20804227 Elementary Math Education I
- 20804237 Elementary Math Education II
- 20804230 Statistics
- 20806211 Intro to Soil and Water Resources
- 20806212 Geographic Information Systems
- 20806215 Environmental Science
- 20806240 Survey of Chemistry

Humanities

- 20803215 History of American People to 1877
- 20803219 History of American People from 1877
- 20809217 Intro to Philosophy
- 20809225 Ethics
- 20801243 American Literature Colonial to 1865
- 20801255 Intro to Literature
- 20803258 World History to 1500*
- 20803259 World History since 1500*
- 20815201 Art Appreciation
- 20805201 Music Appreciation
- 20805280 Music in Film

Social Science

- 20809251 Introduction to Psychology
- 20809252 Developmental Psychology
- 20809254 Educational Psychology
- 20809271 Introductory Sociology*
- 20809275 Marriage and Family
- 20809287 Principles of Macroeconomics
- 20809291 Principles of Microeconomics

Health/Wellness/PE

20807201 Fitness for Life

World Language

• 20802217 Spanish I*

For more information, visit nicoletcollege.edu/classes-programs/ university-transfer/associate-arts

*Course meets the Diversity and Ethnic Studies requirement

**Course meets the Humanities requirement

***Course meets the Social Science requirement

Please Note:

- Student schedules and program completion time may vary depending on course availability.
- Exact courses taken will vary significantly based on students' interests and transfer intentions.
- Courses beginning with "10" are offered by Mid-State. Courses beginning with "20" are offered by Nicolet. All courses can be taken on the Wisconsin Rapids or Stevens Point campuses of Mid-State Technical College or online.
- A maximum of 30 credits from aid code 10 eligible courses may be applied to the degree requirements. When two aid code 10 and aid code 20 courses are deemed to be of similar content, both cannot be applied to fulfill degree requirements. Consult your advisor before using an aid code 10 course.
- Graduation requirement of a 2.0 cumulative GPA.
- Electives are selected from courses not used to fulfill other requirements.



liberal arts-associate of science

Associate of Science (AS) Program Code: 20-800-2 Total Credits: 60

Students in the Liberal Arts-Associate of Science (University Transfer) program take courses to meet the general requirements of a four-year degree, just like at a four-year campus. Through inquiry, observation, and analysis, students gain knowledge and skills in the arts and sciences, which enable them to broaden their perspective, increase problem-solving skills, and express themselves effectively in both writing and speaking. Students take courses within a core curriculum, with an emphasis on science and mathematics.

The Liberal Arts-Associate of Science program is a special partnership with Nicolet College. Students will receive all the cost savings and the convenience of a complete liberal arts transfer degree while taking classes at a Mid-State Technical College campus, online, or via TelePresence.

Students complete coursework at Mid-State and graduate with a Nicolet Liberal Arts-Associate of Science degree.

Students who complete an associate degree often have the benefit of a degree-to-degree transfer, where universities grant junior status and automatically waive specific lower-division requirements, such as general degree requirements, regardless of individual courses taken at Mid-State Technical College.

ACADEMIC ADVISOR

mstc.edu

888.575.6782

ADAMS CAMPUS

401 North Main

Adams, WI 53910

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 1001 Centerpoint Drive
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 Follow-Up Appointment:

Where:
When:
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Other:



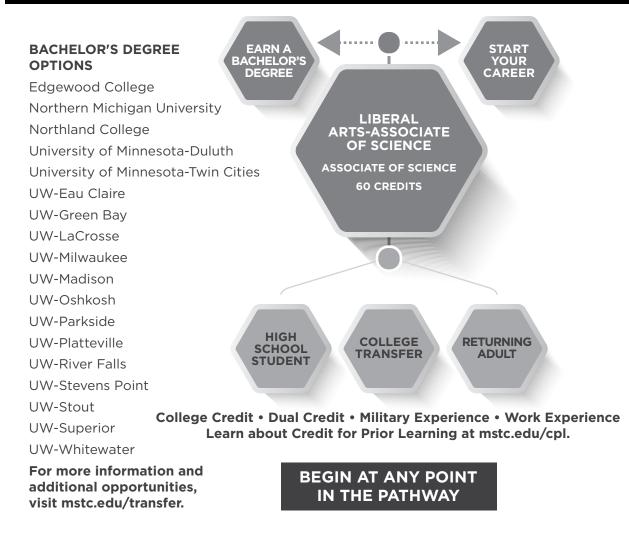
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



OTHER OPTIONS

RELATED PROGRAMS

• Liberal Arts-Associate of Arts

PROGRAM OUTCOMES

Employers will expect you, as an Liberal Arts-Associate of Science graduate, to be able to:

- Employ effective verbal and nonverbal communication skills in diverse professional and social contexts.
- Demonstrate quantitative reasoning skills at the appropriate undergraduate level.
- Demonstrate critical-thinking skills at the appropriate undergraduate level.
- Demonstrate effective use of scientific method skills in a variety of contexts at the appropriate undergraduate level.
- Demonstrate an understanding of the social, cultural, political, and historical dimensions of our world at the appropriate undergraduate level.
- Demonstrate a heightened awareness of our physical, chemical, and biological environment at the appropriate undergraduate level.
- Demonstrate an increased responsibility for self-directed learning and personal wellness.

ENTRANCE REQUIREMENT

UW Placement:

- Algebra 300+
- Intermediate Algebra 365+
 Tradick Conservation 775
- English Composition 335+

Tailwind Placement Exams:

- Intermediate Algebra 40-41
- English Composition Reading Comp & Writing Mechanics 70-99

NOTES:



STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum admission requirements.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Pre-Algebra

10834109**3 credits** 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.

PROGRAM CURRICULUM

English (6 credits):

- 10801136 English Composition 1 (Mid-State Option)
- 20801223 English Composition II (Nicolet Option)

Speech (3 credits):

• 10801198 Speech

Humanities (6 credits):

Must include courses in at least two disciplines: art, history, journalism/writing, literature, music, philosophy, theatre/film, world language.

Mid-State Options:

- 10809122 Intro to American Government
- 10809166 Introduction to Ethics: Theory & Application

See also Nicolet Humanities courses for additional options.

Social Science (6 credits):

Must include courses in at least two disciplines: anthropology, economics, geography, history, political science, psychology, sociology.

Mid-State Options:

- 10809103 Think Critically & Creatively
- 10809122 Intro to American Government
- 10809172 Introduction to Diversity Studies
- 10809188 Developmental Psychology
- 10809195 Economics
- 10809196 Intro to Sociology
- 10809198 Intro to Psychology

See also Nicolet courses for additional options.

Mathematics & Natural Science (20 credits):

Must include mathematics at the level of Intermediate algebra, statistics, quantitative reasoning, elementary math education or higher and seven credits of natural science (one lab course required) chosen from biology, chemistry, geography (selected courses), geology, and physics.

Mid-State Options:

- 10804118 Intermediate Algebra with Applications
- 10804189 Introductory Statistics
- 10806134 General Chemistry
- 10806154 General Physics 1
- 10806177 General Anatomy & Physiology
- 10806179 Advanced Anatomy & Physiology
- 10806197 Microbiology

See also Nicolet courses for additional options.

World Language (4 credits):

May be met with one year high school, with a grade of "C" or better, or one semester in college.

Health/Wellness/Physical Education (1 credit)

Diversity and Ethnic Studies

Courses that meet this requirement may also count toward Humanities or Social Science. These credits are not in addition to the 60 credits required for the degree.

- 10809172 Introduction to Diversity Studies
- 10809196 Intro to Sociology

Electives (14-18 credits):

Select any college transfer courses beyond the minimum requirements. One credit of health and PE beyond the Health/Wellness/PE credit may be selected.

May be 16 credits if students satisfy the world language requirement with one year of high school ("C" or better).

NOTES:

ALL COURSES FOR LIBERAL ARTS

Mid-State Technical College Courses: Communication

- 10801136 English Composition 1
- 10801198 Speech

Mathematics & Natural Science

- 10804118 Intermediate Algebra with Applications
- 10804189 Introductory Statistics
- 10804195 College Algebra with Applications
- 10804196 Trigonometry with Applications
- 10806134 General Chemistry
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Social Science

- 10809103 Think Critically & Creatively
- 10809122 Intro to American Government**
- 10809166 Introduction to Ethics: Theory & Application**
- 10809172 Introduction to Diversity Studies***
- 10809188 Developmental Psychology
- 10809195 Economics
- 10809196 Intro to Sociology***
- 10809198 Intro to Psychology

For more information, visit mstc.edu/programs/liberal-arts-arts

Nicolet College Courses: English and Literature

- 20810201 Fundamentals of Speech
- 20801219 English Composition I
- 20801223 English Composition II
- 20801227 Creative Writing
- 20801233 Children's Literature

Mathematics and Natural Science

- 20804227 Elementary Math Education I
- 20804237 Elementary Math Education II
- 20804230 Statistics
- 20806211 Intro to Soil and Water Resources
- 20806212 Geographic Information Systems
- 20806215 Environmental Science
- 20806240 Survey of Chemistry

Humanities

- 20803215 History of American People to 1877
- 20803219 History of American People from 1877
- 20809217 Intro to Philosophy
- 20809225 Ethics
- 20801243 American Literature Colonial to 1865
- 20801255 Intro to Literature
- 20803258 World History to 1500*
- 20803259 World History since 1500*
- 20815201 Art Appreciation
- 20805201 Music Appreciation
- 20805280 Music in Film

Social Science

- 20809251 Introduction to Psychology
- 20809252 Developmental Psychology
- 20809254 Educational Psychology
- 20809271 Introductory Sociology*
- 20809275 Marriage and Family
- 20809287 Principles of Macroeconomics
- 20809291 Principles of Microeconomics

Health/Wellness/PE

20807201 Fitness for Life

World Language

• 20802217 Spanish I*

For more information, visit nicoletcollege.edu/classes-programs/ university-transfer/associate-arts

*Course meets the Diversity and Ethnic Studies requirement

**Course meets the Humanities requirement

***Course meets the Social Science requirement

Please Note:

- Student schedules and program completion time may vary depending on course availability.
- Exact courses taken will vary significantly based on students' interests and transfer intentions.
- Courses beginning with "10" are offered by Mid-State. Courses beginning with "20" are offered by Nicolet. All courses can be taken on the Wisconsin Rapids or Stevens Point campuses of Mid-State Technical College or online.
- A maximum of 30 credits from aid code 10 eligible courses may be applied to the degree requirements. When two aid code 10 and aid code 20 courses are deemed to be of similar content, both cannot be applied to fulfill degree requirements. Consult your advisor before using an aid code 10 course.
- Graduation requirement of a 2.0 cumulative GPA.
- Electives are selected from courses not used to fulfill other requirements.



machine tool technician

Technical Diploma Program Code: 32-420-1 Total Credits: 54

The Machine Tool Technician program prepares graduates for machining positions, an in-demand skill set at the heart of industrial production. Additional training and experience often lead to supervisory, quality assurance, and tool maker positions. In this program you will learn to shape various materials into intricate, precise, usable parts. You'll also work from blueprints and written specifications to select the proper machinery, materials, and tools, and you'll gain proficiency with machine tools such as lathes, mills, grinders, computers, and computerized numerical control (CNC) machines.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)	
Form(s):	

□ Follow-Up Appointment:

Where: _	
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

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Other:_____
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ADAMS CAMPUS 401 North Main Adams, WI 53910



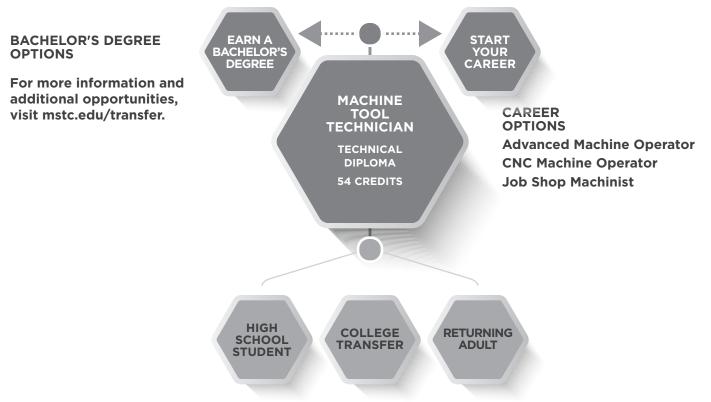
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Industrial Mechanical Technician
- Manufacturing Operations Management
- Stainless Steel Welding
- Welding

APPRENTICESHIP OPPORTUNITIES

Machinist Apprenticeship

PROGRAM OUTCOMES

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

- Apply basic safety practices in the machine shop.
- · Interpret industrial/engineering drawings.
- Apply precision measuring methods to parts inspection.
- Perform basic machine tool equipment setup and operation.
- Perform programming, setup, and operation of CNC machine tools.
- Perform advanced CNC machining operations.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

NOTES:

STUDENT HANDBOOK

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GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10623116 31804305 32420326 32420327 32420328 32420362	14 cred Technical Drawing Interpretation Applied Mathematics Introduction to Turning Machines Turning Machine Foundations Precision Turning Machine Applications CNC Lathes/Manual Programming	i ts 2 2 2 3 3 2 2
Term 32420310	14 cred Introduction to Solid Modeling	its
32420312	Metals Science	2
32420337	Introduction to Milling Machines	2
32420338	Milling Machine Foundations	3
32420339	Precision Milling Machine Applications	3
32420364	CNC Mills/Manual Programming	2
Term 13 credits		its
10623112	Manufacturing Practices	2 3
	10801199 Employment Strategies	
	32420325 Inspection with Geometric Dimensioning 22420335 Lathes-Advanced 22	
32420373 32444377	CNC Lathes Set Up and Operation CNC Lathes Computer Aided Programming	2 2
	17	
Term	13 cred	
32420336 32420374	Mills-Advanced CNC Mills Set Up and Operation	2
32420374	Multi-Axis Machining Processes	2 3 3 3
32444378	CNC Mills Computer Aided Programming	3
32444379	Advanced CNC Milling Operations	3
	Total credits	54
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. For details, go to mstc.edu/classfinder.

SAMPLE PART-TIME CURRICULUM OPTION

Term	6 cre	dits
10623116	Technical Drawing Interpretation	2
31804305	Applied Mathematics	2
32420326	Introduction to Turning Machines	2
Term	6 cre	dits
32420310	Introduction to Solid Modeling	2
32420312	Metals Science	2
32420337	Introduction to Milling Machines	2
Term	8 cre	dits
32420327	Turning Machine Foundations	3
32420328	Precision Turning Machine Applications	3
32420362	CNC Lathes/Manual Programming	2
Term	8 cre	dits
32420338	Milling Machine Foundations	3
32420339	Precision Milling Machine Applications	3
32420364	CNC Mills/Manual Programming	2
Term	7 cre	dits
10801199	Employment Strategies	3
32420325	Inspection with Geometric Dimensioning	2
32420335	Lathes-Advanced	2
Term 32420336 32420374 32444378		dits 2 2 3
Term 10623112 32420373 32444377	6 cre Manufacturing Practices CNC Lathes Set Up and Operation CNC Lathes Computer Aided Programming	2 2
	7 cre Multi-Axis Machining Processes Advanced CNC Milling Operations	dits 3 3
Total credits 54		

Advanced CNC Milling Operations

32444379.....**3 credits** This course will utilize classroom presentations, discussions and hands-on lab activities to build on the skills from previous classroom experiences to equip learners to follow the entire process of manufacturing from print to part and through final inspection using CNC milling machines. Learners will explore in-process automated part inspection with the use of machine based probing systems. Additionally, students will become accustom to the use of Wire EDM machines and Coordinate Measuring Machines as they progress through the course.

Prerequisite: CNC Mills/Manual Programming 32420364

Applied Mathematics

31804305.....**2 credits** Students taking Applied Math I make and convert various measurements. Students use formulas to solve problems. They compute dimensions of geometric shapes. Students use statistical tools to represent and analyze data. They analyze various financial situations. Students use basic right

triangle trigonometry to solve problems. In each topic area, students solve application problems.

CNC Lathes Computer Aided Programming

32444377.....2 credits This course introduces learners to Computer-Aided Machining/Manufacturing (CAM). Demonstrations and hands-on use of CAD/CAM software and hardware will be used. 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 CNC lathes. Some basic machine set-up and operation are included to verify program operation. *Prerequisite: Introduction to Solid Modeling 32420310*

CNC Lathes Set Up and Operation

32420373.....**2 credits** In this introductory Computer Numerical Control (CNC) machining course, students will practice the skills needed to setup and operate CNC lathes. Classroom presentations and lab projects will focus on safety, theory, terminology as it relates to completing machine setups in the CNC lathe. Topics covered will be tool and work offset setting, work holding and quality. Learners will work with proven CNC part programs and setup documents to create parts to specifications and ensure all parts of a production run maintain quality throughout the run. *Prerequisite: CNC Lathes/Manual Programming 32420362*

CNC Lathes/Manual Programming

32420362**2 credits** Covers NC/CNC terminology and introduces students to computers and components of NC/CNC lathes. All programming is manual word address (G+M Code) basics. Includes basic CNC lathe operation.

CNC Mills Computer Aided Programming

32444378.....3 credits This course introduces learners to Computer-Aided Machining/Manufacturing (CAM). Demonstrations and hands-on of CAD/CAM software and hardware will be used. 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 CNC milling machines and machining centers. Some basic machine set-up and operation are included to verify program operation.

Prerequisite: Introduction to Solid Modeling 32420310

CNC Mills Set Up and Operation

32420374.....**2 credits** In this introductory Computer Numerical Control (CNC) machining course, students will practice the skills needed to setup and operate CNC milling machines. Classroom presentations and lab projects will focus on safety, theory, terminology as it relates to completing machine setups in the CNC milling machine. Topics covered will be tool and work offset setting, work holding and quality. Learners will work with proven CNC part programs and setup documents to create parts to specifications and ensure all parts of a production run maintain quality throughout the run. *Prerequisite: CNC Mills/Manual Programming 32420364*

CNC Mills/Manual Programming

32420364**2 credits** Covers NC/CNC terminology and introduces students to computers and components of NC/CNC mills. All programming is manual word address (G+M code) basics. Includes basic CNC mill operation.

Employment Strategies

10801199.....**3 credits** 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 percent of technical program credits or receive department approval. See program advisor, program faculty, program counselor, or department dean/associate dean to register.

Inspection with Geometric Dimensioning

32420325.....2 credits This course will familiarize learners with interpreting Geometric Dimensioning and introduce dimensional metrology. Activities and classroom presentations will provide insight into the use of direct and indirect measuring tools, instrument calibration, and the use of Coordinate Measuring Machines, and quality documentation. Emphasis of the course will be on interpretation of Geometric Dimensioning and using metrology fundamentals to ensure manufactured components meet design specifications.

Introduction to Milling Machines

32420337.....2 credits

Explore the fundamentals of basic operations and safety of manual mills. Through the utilization of classroom and lab activities learners will acquire a basic understanding of the Milling Machine components as well as the cutting tools and basic work holding devices that may be used on the machine. The importance of proper tool selection and usage as utilizing the Milling Machines components properly will be the concentration.

Introduction to Solid Modeling

32420310.....**2 credits** Introduces students creating computer-aided drafting (CAD) represented solid models for use in the manufacturing arena. As an introductory course in three-dimensional modeling, learners use computer software to develop two-dimensional sketches and use modeling tools to create solid models on the computer. Students also use the models to create and detail two-dimensional engineering drawings for use on the manufacturing floor. Computer knowledge and prior knowledge of drawing/drafting techniques is recommended.

Introduction to Turning Machines

32420326**2 credits** This course will introduce functions and capabilities of turning machines known as lathes. Activities and hands-on lab exercises will be used to introduce learners to the most common applications of lathes in the machine shop. Shop safety, terminology, and identification of turning machines and related equipment in a machine shop environment will be introduced. Learners will also gain an understanding of basic setup and metal cutting processes performed on turning machines.

Lathes-Advanced

32420335.....2 credits Students receive further insight into lathe concepts. Includes safety review and covers advanced cutting tool materials such as carbides, ceramics, cubic boron nitride (CBN), and polycrystalline diamonds (PCD). Tooling, speeds and feeds, cutting tool selection, and advanced machine practices such as multi-operations and process planning are also covered. *Prerequisite: Precision Turning Machine Applications 32420328*

Manufacturing Practices

10623112......**2 credits** 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, the 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, 5S methodology, value stream mapping, setup reduction and quick changeover, cellular flow, building a lean culture, total productive maintenance, and statistical process control (SPC).

Metals Science

32420312**2 credits** Introduces the field of metallurgy. Covers sources of common metals, including both ferrous and non-ferrous methods of ore extraction, and refining and classification of 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.

Milling Machine Foundations

32420338.....3 credits This course will develop additional skills needed for effective milling machine operations. Common work holding and fixturing tools will be utilized to create parts accurately. Classroom presentation and lab activities will be utilized to hone the learner's skills with manual milling machines. Attention will be on the use of advanced cutting tools and work holding techniques.

Corequisite: Introduction to Milling Machines 32420337

Mills-Advanced

324203362 credits Provides greater insight into milling machine concepts. Places major emphasis on milling machine terminology, work-holding methods, location principles, tooling, and cutting tool selection, in addition to operations and process planning. Includes rotary tables and indexing methods such as direct, simple, and angular.

Prerequisite: Precision Milling Machine Applications 32420339

Multi-Axis Machining Processes

32420380.....**3 credits** Multi-Axis CNC machines have become standard in the machining industry. Participants in this course will become familiar with the set-up procedures for 4 and 5 axis milling machines, manual programming techniques, and advanced CAM programming for multi-axis positioning and contouring. Lab activities and classroom presentations will prepare students for the added machining versatility of multi-axis machines.

Precision Milling Machine Applications

32420339**3 credits** Learners will build additional skills from previous classroom experiences related to milling machines. Classroom presentations and lab projects will focus on safety, theory, terminology, machine tool setups, calculations and machine operations. Projects will be built using milling machines. Special attention will be on safety, print reading, layout, inspection and shop math.

Corequisite: Introduction to Milling Machines 32420337

Precision Turning Machine Applications

32420328.....3 credits This course will continue to build skills on applications of turning machine operations. Presentations and lab activities will prepare learners to work efficiently and accurately with precision tolerances as a standard. Learners will be introduced to multiple lathe operations including drilling, reaming, thread cutting processes, and an introduction to CNC lathe operations.

Corequisite: Introduction to Turning Machines 32420326

Technical Drawing Interpretation

10623116.....**2 credits** Technical drawings are the heart of the manufacturing process. This course will develop proficiency with the visualization of multi-view orthographic projection drawings, interpretation of print symbols, dimensioning standards, tolerance standards, assembly drawings, section and auxiliary views. Included in this course will be hands on drawing and interpretation of prints as well as classroom presentations.

Turning Machine Foundations

32420327.....3 credits Students enrolled in this course will build additional skills from previous classroom experiences related to turning machines. Presentations and lab activities will focus on safety, machine setups, common calculations encountered, and chip making processes. Learners lab projects will be created using techniques to insure accuracy, efficiency and repeatability. Emphasis will be put on common procedures and inspection processes to produce quality components. *Corequisite: Introduction to Turning Machines 32420326*



manufacturing operations management

Associate in Applied Science (AAS) Program Code: 10-196-5 Total Credits: 60-61

The Manufacturing Operations Management program is designed to help those with some prior experience in manufacturing advance into management positions. Graduates are prepared to supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators, and plant and system operators. Supply chain, automation, quality, lean leadership, and supervisory skills are all emphasized along with creative problem solving and team building. Students in the program will have opportunities to explore manufacturing facilities where they will analyze manufacturing operations, identify process efficiencies, and identify management strategies leading to quality production and processing.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)	
Form(s):	

Follow-Up Appointment: Where:

When:	
	When:

With:

Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481



ADAMS CAMPUS 401 North Main Adams, WI 53910



MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449

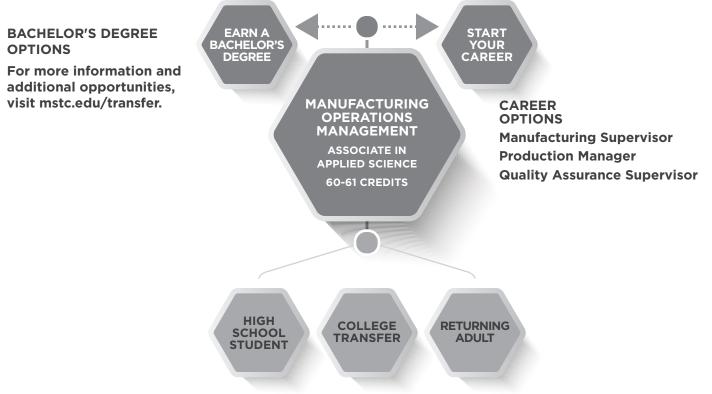


STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 4/2020

Other: ______

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Industrial Mechanical Technician
- Machine Tool Technician
- Stainless Steel Welding
- Welding

PROGRAM OUTCOMES

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

- Organize resources to achieve the goals of the organization.
- Direct individuals and/or processes to meet organizational goals.
- Implement safe work practices.
- Design, implement, and evaluate industrial processes.
- Apply leadership skills and tools to facilitate problem solving.
- Develop and maintain a continuous improvement environment.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109.....**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10196189 10196191 10462107 10623114 10801136 10804107 10804118 10804189	15-16 cr Team Building & Problem Solving Supervision Industrial Safety Intro to Inventor English Composition 1 College Mathematics -or- Intermediate Algebra with Applications -or- Introductory Statistics	redits 3 2 1 3 3 4 3
Term 10102110 10102121 10103123 10623112 10801196 10801198 10809166	15 cr Employment Law Finance and Budgeting Excel-Beginning Manufacturing Practices Oral/Interpersonal Communication -or- Speech Intro to Ethics: Theory & Application	redits 3 1 2 3 3 3
Term 10196190 10196193 10605117 10623169 10809188 10809198	15 cr Leadership Development Human Resource Management Automation 1 - Beginning PLC Manufacturing Operations Management Internship Developmental Psychology -or- Intro to Psychology	redits 3 3 3 3 3 3
Term 10102131 10196192 10623132 10623171 10809172	15 cr Entrepreneurial Management Managing for Quality Project Management for Manufacturing Lean Six Sigma Introduction to Diversity Studies Total credits (redits 3 3 3 3 3 50-61

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10462107 10623114 10801136	Industrial Safety Intro to Inventor English Composition 1	6 credits 2 1 3
Term 10103123 10804107	7. Excel-Beginning College Mathematics - or -	-8 credits 1 3
10804118 10804189	Intermediate Algebra with Applicatio	ons 4 3
10809166	Introductory Statistics Intro to Ethics: Theory & Application	3
Term 10102121 10196191 10623112	Finance and Budgeting Supervision Manufacturing Practices	8 credits 3 3 2
Term 10102110 10196189 10801196 10801198	Employment Law Team Building & Problem Solving Oral/Interpersonal Communication - Speech	9 credits 3 3 pr- 3
Term 10196190 10809188 10809198	Leadership Development Developmental Psychology -or- Intro to Psychology	6 credits 3 3
Term 10196192 10196193 10809172	Managing for Quality Human Resource Management Introduction to Diversity Studies	9 credits 3 3 3
Term 10605117 10623169	Automation 1 - Beginning PLC Manufacturing Operations Managem Internship	6 credits 3 ent 3
Term 10102131 10623132 10623171	Entrepreneurial Management Project Management for Manufacturi Lean Six Sigma	9 credits 3 ng 3 3
	Total crec	lits 60-61

Automation 1 - Beginning PLC

10605117**3 credits** An overview of programmable logic controllers (PLCs) that provides a foundation of knowledge of the programming techniques, operation, and maintenance of PLCs used in typical industrial automation.

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 10834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Developmental Psychology

10809188.....**3 credits** Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Employment Law

10102110.....**3 credits** Introduces a broad scope of employment laws and provides the opportunity to apply these laws to the employment arena. Includes 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 ACA; and unemployment and worker's compensation insurance.

English Composition 1

108011363 credits

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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10831103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Entrepreneurial Management

10102131.....**3 credits** Introduces students to the concept of entrepreneurship. Learners study entrepreneurial practices primarily by developing a business plan for a venture of their choice. This includes comparing ways of going into business as well as developing marketing, legal, financial, products/ services, management, and operations plans 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.

Excel-Beginning

10103123.....1 credit Students learn to create, modify, and format spreadsheets, charts, and graphics. Students also learn to perform calculations and analysis on data.

Finance and Budgeting

10102121.....**3 credits** For the nonfinancial manager, this course introduces the language of accounting, finance, and budgeting. Provides an overview of the use and analysis of financial statements. Business planning and the foundations and development of budgets are explored. Business financing basics and the securing of necessary financing for a business are covered. Practical application of financial statement creation and analysis, budgetary activities, and finance calculations are included.

Human Resource Management

10196193......3 credits Applies skills and tools necessary to perform human resource functions in an organization. Each learner demonstrates 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.

Industrial Safety

10462107**2 credits** 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. Focuses 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.

Intermediate Algebra with Applications

10804118......**4 credits** 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; and algebra of inverse, logarithmic, and exponential functions. *Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 263 and QAS 234 or ACT of 19 or QAS of 245, or Pre-Algebra 10834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Intro to Ethics: Theory & Application

10809166**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Inventor

10623114**1 credit** Learners will create 3D models in Inventor using a variety of feature and modify tools, analyze the volume of the models, and apply a material to determine weight of the finished product. Learners will generate 2D representations of the 3D model inappropriate views, and add dimensions and annotations before formatting drawings to print out. Prior experience with computers is recommended.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality,abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Diversity Studies

10809172.....**3 credits** 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Introductory Statistics

10804189.....**3 credits** 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: High School GPA of 3.0 or Accuplacer QAS 241 or ACT of19 or Pre-Algebra 10834109 with a grade of "C" or better or College Math 10804107 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Leadership Development

10196190.....**3 credits** Applies skills and tools necessary to fulfill his/her role as a modern leader. Each learner evaluates 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.

Lean Six Sigma

10623171.....3 credits Learners will examine two models of problem solving/ continuous improvement (the PDCA/PDSA and the DMAIC models). Learners will utilize an A3 report to identify the current process condition, identify improvement goals, establish root causes, specify improvement activities, and confirm results. Learners will utilize the seven SPC (Statistical Process Control) tools and selected Quality Management Tools in the improvement process. Learners will examine the steps of planning and executing a Kaizen Event as well as supporting daily Kaizen activities. *Prerequisite: Admission to Manufacturing Operations Management program 101965 or Leadership Development program 101961*

Managing for Quality

10196192.....3 credits 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 systemsfocused approach, use quality models and tools, manage a quality improvement project, and measure effectiveness of continuous improvement activities.

Manufacturing Operations Management Internship 10623169......3 credits

This internship provides students with practical knowledge and experience in the manufacturing industry through the lens of supervisors and managers. Integrating the theories and techniques learned in previous courses with specific off-campus occupational experiences at selected training sites allows students to gain a real-world perspective of this segment of the manufacturing industry.

Manufacturing Practices

10623112......**2 credits** 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, the 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, 5S methodology, value stream mapping, setup reduction and quick changeover, cellular flow, building a lean culture, total productive maintenance, and statistical process control (SPC).

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Project Management for Manufacturing

10623132.....**3 credits** Offers a systematic approach to coordinating, scheduling, and controlling activities, people, and resources during short-term and long-term projects. Some of the tools presented include Work Breakdown Structures, Activity Diagrams, and Gantt Charts.

Speech

10801198.....**3** credits Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Pre-requisite: High School GPA of 3.0 or Accuplacer Reading of* 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Supervision

10196191.....**3 credits** Applies 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.

Team Building & Problem Solving

10196189**3 credits** Applies 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, uses a systematic problem-solving process, and employs consensus-building and conflict-management strategies.



medical assistant

Technical Diploma Program Code: 31-509-1 Total Credits: 32

Mid-State's Medical Assistant program prepares graduates to work confidently in medical offices and clinics, assisting in the reception, examination, and treatment of patients. You'll learn valuable clinical and clerical skills as well as how to sterilize equipment and perform lab procedures, EKGs, and injections. The program's combination of classroom instruction and clinical practicum at a variety of area medical offices and clinics provides comprehensive, cognitive (knowledge), psychomotor (skills), and affective (behavior) preparation. Successful graduates are eligible to write one of two voluntary national certification exams for medical assistants.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:	
--------	--

With:

When:

Official Transcripts

Mid-State Technical College

Student Services Assistant

1001 Centerpoint Drive

Stevens Point, WI 54481

Criminal Background Statement of Understanding and Release of Information Form

Other:



ADAMS CAMPUS 401 North Main Adams, WI 53910



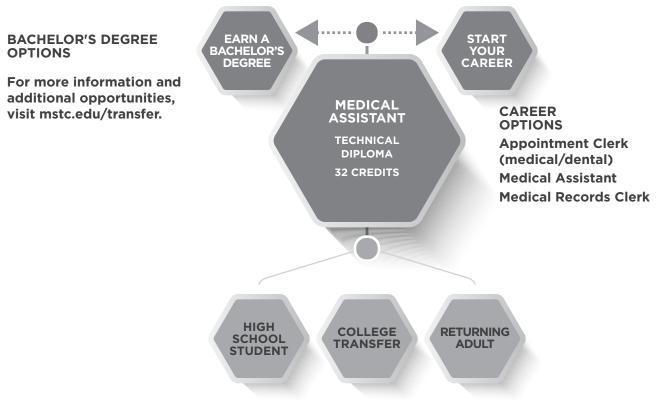
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Central Service Technician
- Health Information Management
- Health & Wellness Promotion
- Medical Coder
- Nursing
- Nursing Assistant
- Pharmacy Services Management
- Pharmacy Technician
- Phlebotomy Technician
- Respiratory Therapy
- 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.

TECHNICAL SKILLS ATTAINMENT

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. Students who successfully complete Medical Assistant Clinical Procedures 2, Medical Assistant Laboratory Procedures 2, and the Medical Assistant Practicum will meet the TSA requirements.

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

25400 US Highway 19 North, Suite 158, Clearwater, FL 33763 Phone: 727.210.2350 • www.caahep.org

ADDITIONAL ENTRY CRITERIA

To apply to the Medical Assistant program, please submit the following documents to Mid-State Admissions:

• Criminal Background Statement of Understanding and Release of Information form.

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

TECHNICAL STANDARDS

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 & Information Center 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 health work 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. Mid-State will make two attempts to place a student in an appropriate clinical experience. If Mid-State 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.

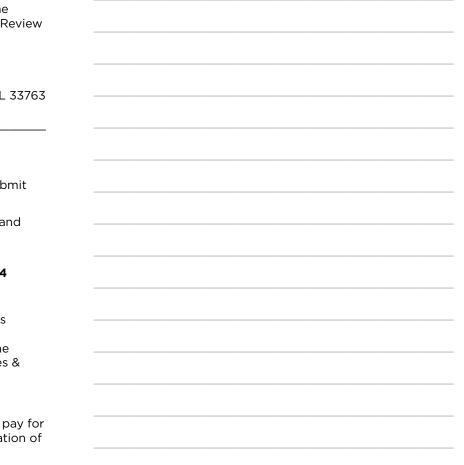
PROGRAM PROGRESSION AND COMPLETION

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.

NOTES:

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.



STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term	16 credi	ts
10501101	Medical Terminology	3
10501104	Culture of Healthcare	2
10501107	Digital Literacy for Healthcare	2
31509302	Human Body in Health & Disease	3
31509303	Medical Assistant Laboratory Procedures 1	2
31509304	Medical Assistant Clinical Procedures 1	4
Term 10501108 10501109 31509301 31509305 31509306 31509307 31509310	16 credi Pharmacology for Allied Health Medical Law, Ethics, and Professionalism Medical Assistant Administrative Procedures Medical Assistant Laboratory Procedures 2 Medical Assistant Clinical Procedures 2 Medical Office Insurance and Finance Medical Assistant Practicum	

Total credits 32

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term	8 credi	ts
10501101	Medical Terminology	3
10501107	Digital Literacy for Healthcare	2
31509302	Human Body in Health & Disease	3
Term	6 credi	ts
10501104	Culture of Healthcare	2
10501108	Pharmacology for Allied Health	2
10501109	Medical Law, Ethics, and Professionalism	2
Term	8 credi	ts
31509301	Medical Assistant Administrative Procedures	2
31509303	Medical Assistant Laboratory Procedures 1	2
31509304	Medical Assistant Clinical Procedures 1	4
Term	10 credi	ts
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 3	32

Culture of Healthcare

10501104.....**2 credits** An introduction to the culture of healthcare for students interested in working in various healthcare settings. Learners examine professionalism, interpersonal and written communication skills, problem-solving skills and patient privacy and confidentiality issues as they relate to healthcare.

Digital Literacy for Healthcare

105011072 credits The focus of this course is the use of technology in healthcare. Learners use common business software applications, including word processing, presentation, spreadsheet, and databases. Communication methods using technology are addressed. Learners gain experience with using the electronic health record (EHR). Healthcare EHR security issues, social media use, and digital healthcare resources are examined.

Human Body in Health & Disease

31509302.....**3 credits** 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.

Medical Assistant Administrative Procedures 31509301......2 credits

Introduces medical assistant students to office management, business administration, and the electronic medical record (EMR) in the medical office. Students learn to schedule appointments, perform filing, record keeping, telephone and reception duties, communicate effectively with patients and other medical office staff, and keep an inventory of supplies.

Prerequisite: Admission to Medical Assistant program 315091

Medical Assistant Clinical Procedures 1

31509304.....**4 credits** 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. Learner explores communication principles and psychology theories related to patient care.

Prerequisite: Admission into Medical Assistant program 315091; Corequisite: Medical Assistant Laboratory Procedures 1 31509303

Medical Assistant Clinical Procedures 2

31509306.....**3 credits** 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. Students learn preventive care and principles of nutrition.

Prerequisites: Medical Assistant Clinical Procedures 1 31509304, Medical Assistant Laboratory Procedures 1 31509303, Medical Terminology 10501101, and Human Body in Health and Disease 10509102; Corequisite: Medical Assistant Laboratory Procedures 2 31509305

Medical Assistant Laboratory Procedures 1

31509303.....**2 credits** Introduces medical assistant students to laboratory procedures commonly performed by medical assistants in a medical office setting. Students perform Clinical Laboratory Improvement Amendment (CLIA) waived routine laboratory procedures commonly performed in the ambulatory care setting. 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; Corequisite: Medical Assistant Clinical Procedures 1 31509304*

Medical Assistant Laboratory Procedures 2

31509305.....**2 credits** Prepares students to perform phlebotomy and Clinical Laboratory Improvement Amendment (CLIA) waived hematology, chemistry, immunology and laboratory procedures commonly performed by medical assistants in the ambulatory care setting. *Prerequisite: Medical Assistant Laboratory Procedures 1 31509303*;

Prerequisite: Medical Assistant Laboratory Procedures 1 31509303; Corequisite: Medical Assistant Clinical Procedures 2 31509306

Medical Assistant Practicum

31509310......3 credits Requires medical assistant students to integrate and apply knowledge and skills from all previous medical assistant courses in actual ambulatory health care 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. This is a supervised, unpaid, clinical experience. AAMA required Practicum - 160 minimum hours (AAMA minimum) up to 216 hours.

Prerequisites: Medical Assistant Laboratory Procedures 2 31509305 and Medical Assistant Clinical Procedures 2 31509306

Medical Law, Ethics, and Professionalism

10501109.....**2 credits** Prepares students to display professionalism and perform within ethical boundaries in the healthcare setting. Students maintain confidentiality, examine legal aspects of the medical record, perform risk management procedures, and examine legal and bioethical issues.

Medical Office Insurance and Finance 31509307......2 credits

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 also 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.

Medical Terminology

10501101.....**3 credits** Focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasizes spelling, definition, and pronunciation. Introduces operative, diagnostic, therapeutic, and symptomatic terminology of all body systems as well as systemic and surgical terminology.

Pharmacology for Allied Health

10501108.....**2 credits** Introduces students to medication classification, basic pharmacology principles, and supplements. Students apply basic pharmacodynamics to identify common medications and calculate dosages in preparation for medication administration.



medical coder

Technical Diploma Program Code: 31-530-3 **Total Credits: 30**

The Medical Coder program at Mid-State prepares students for entry-level work as medical coders in health care settings such as hospitals, physician offices, long-term care facilities, and more. Medical coders review medical documentation and assign diagnosis and procedure codes for the purposes of billing, guality improvement, statistical reporting, and medical research. In this program, you'll be introduced to reimbursement principles and build proficiency in assigning codes across all settings. After program completion, graduates may qualify to take the Certified Coding Associate (CCA) credentialing exam through American Health Information Management Association (AHIMA).

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit mstc.edu/advising.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- □ Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:	
When:	

With: Official Transcripts Mid-State Technical College Student Services Assistant 1001 Centerpoint Drive Stevens Point, WI 54481

Other:	



ADAMS CAMPUS 401 North Main Adams, WI 53910



MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449

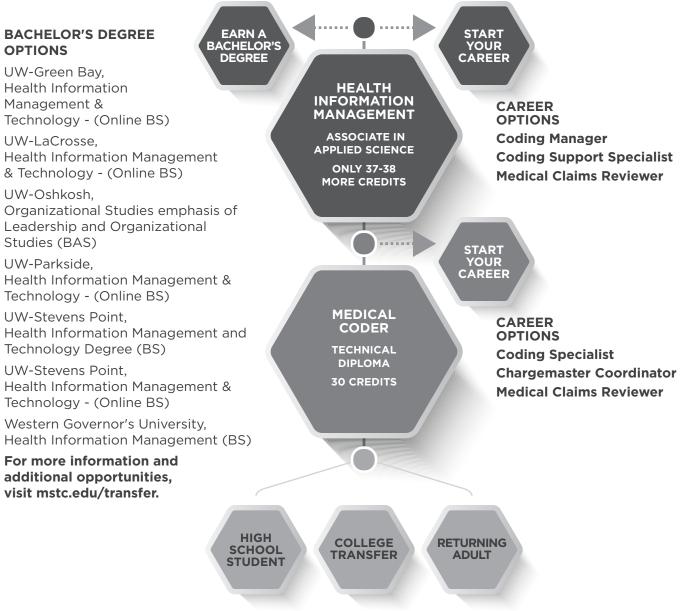


STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481

WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.

OTHER OPTIONS

RELATED PROGRAMS

- Central Service Technician
- Health & Wellness Promotion
- Medical Assistant
- Nursing
- Nursing Assistant
- Pharmacy Services Management
- Pharmacy Technician
- Phlebotomy Technician
- Respiratory Therapy
- Surgical Technologist

BEGIN AT ANY POINT IN THE PATHWAY

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 and abstract data, and apply appropriate clinical codes using proper classification systems accurately.
- Provide charge validation.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

TECHNICAL STANDARDS

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 & Information Center 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 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.

A student may repeat the same course only once in the Medical Coder program. If the course is failed a second time, the student will be withdrawn from the Medical Coder program. If a Medical Coder student fails four separate program courses, the student will be withdrawn from the program. Failures will include failing the same course or failing different courses. A withdrawal grade of "W" counts as one attempt for the course.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term	9 cree	dits
10501101	Medical Terminology	3
10530111	Introduction to Health Records	3
10806189	Basic Anatomy	3
Term	12 cree	dits
10530122	Electronic Health Records	3
10530144	CPT Coding	3
10530182	Human Disease for the Health Professions	3 3 3
10530197	ICD Diagnosis Coding	3
Term	9 cree	dits
10530146	Private and Government Reimbursement	3
10530147	HIM Advanced Coding	3
10530166	Inpatient Procedure Coding	3
	Total credits	30

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10530111 10501101	Introduction to Health Records Medical Terminology	5 credits 3 3
Term 10806189	-	3 credits 3
Term 10530122 10530182		5 credits 3 ions 3
Term 10530144 10530197	CPT Coding ICD Diagnosis Coding	5 credits 3 3
Term 10530146 10530147 10530166	Private and Government Reimburseme HIM Advanced Coding Inpatient Procedure Coding	ent 3 3 3
	Total cr	edits 30

course descriptions

Basic Anatomy

10806189**3 credits** Examines concepts of anatomy and physiology as they relate to health careers. Learners correlate anatomical and physiological terminology to all body systems.

CPT Coding

10530144**3 credits** 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. Emphasizes accuracy, CPT instructional notations, conventions, rules, and official coding guidelines when assigning CPT codes to case studies and actual medical record documentation. Also covers application of modifiers to services and relationship to financial impact.

Prerequisites: Medical Terminology 10501101, Basic Anatomy 10806189, and Introduction to Health Records 10530111; Corequisite: Human Disease for the Health Professions 10530182

Electronic Health Records

10530122.....**3 credits** 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, Basic Anatomy 10806189, and Introduction to Health Records 10530111; Corequisite: Human Disease for the Health Professions 10530182

HIM Advanced Coding

10530147.....3 credits Builds on basic coding knowledge and skills through the coding of clinical case studies and actual medical records. Students access, review, and code electronic medical records from the virtual lab software; perform data quality reviews to validate code assignment and compliance with reporting requirements; develop appropriate physician queries; and assign diagnosis related groups (DRGs) and ambulatory payment classifications (APCs) with entry-level proficiency using computerized encoding and grouping software.

Prerequisites: ICD Diagnosis Coding 10530197 and CPT Coding 10530144; Corequisites: Private & Government Reimbursement 10530146 and Inpatient Procedure Coding 10530166

Human Disease for the Health Professions

10530182.....**3 credits** Focuses on the common diseases of each body system as encountered in all types of healthcare settings by health information professionals. Emphasizes understanding the etiology (causes), signs and symptoms, diagnostic tests, and treatment (including pharmacologic) of each disease. *Prerequisites: Medical Terminology 10501101 and Basic Anatomy 10806189*

ICD Diagnosis Coding

10530197.....3 credits 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, Introduction to Health Records 10530111, and Basic Anatomy 10806189; Corequisite: Human Disease for the Health Professions 10530182

Inpatient Procedure Coding

10530166.....3 credits 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, Introduction to Health Records 10530111, Basic Anatomy 10806189, and Human Disease for the Health Professions 10530182

Introduction to Health Records

10530111.....**3 credits** 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 health care 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. Emphasizes accuracy, organization, and confidentiality. Students are introduced to electronic medical record (EMR) concepts.

Corequisite: Medical Terminology 10501101

Medical Terminology

10501101......3 credits Focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Learners practice formation, analysis, and reconstruction of terms. Emphasizes spelling, definition, and pronunciation. Introduces operative, diagnostic, therapeutic, and symptomatic terminology of all body systems as well as systemic and surgical terminology.

Private and Government Reimbursement

10530146**3 credits** Introduces students to the vocabulary of private healthcare and government reimbursement. Students will identify and compare the varieties of private and government healthcare insurance including the advantages and disadvantages of each for the provider and for the policyholder. HIPAA guidelines are utilized throughout.

Prerequisites: ICD Diagnosis Coding 10530197 and CPT Coding 10530144; Corequisite: Inpatient Procedure Coding 10530166



microsoft system administrator

Technical Diploma Program Code: 30-150-5 Total Credits: 12

Managing and troubleshooting network environments based on the Windows Server operating system is a growing field of expertise in IT. Mid-State's Microsoft System Administrator program covers some of the newest and most rapidly expanding technologies in this area. We seek feedback from local employers to ensure course content is always up to date. As a result, you will have the skills and knowledge employers are looking for.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where:	
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

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Other: _____
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ADAMS CAMPUS 401 North Main Adams, WI 53910



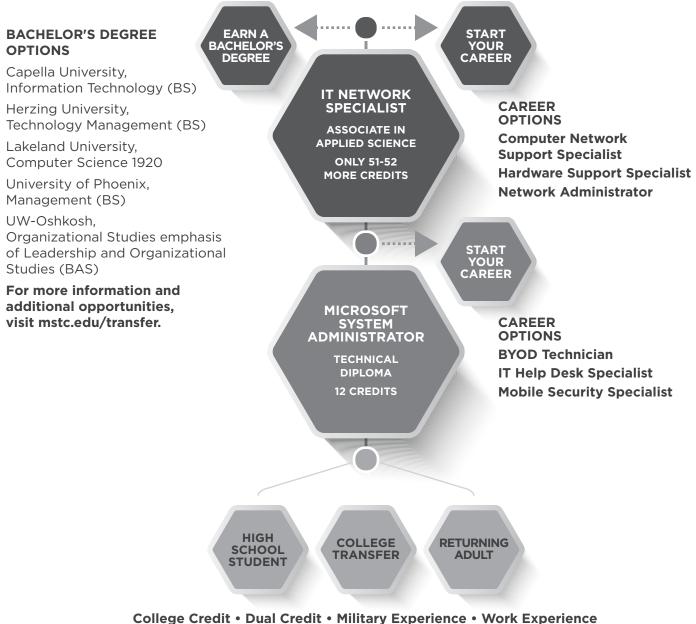
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Business Analyst
- IT Computer Support Specialist
- IT Security Specialist
- IT Software Developer

PROGRAM OUTCOMES

Employers will expect you, as a Microsoft System Administrator graduate, to be able to:

- Analyze network performance and security.
- Automate local and remote network tasks using scripting.
- Manage virtual network environments.
- Manage infrastructure services.
- Manage deployment services.
- Manage active directory domain services.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

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GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10154102	Hardware Essentials	3 credits 3
Term 10150120 10150165	Server Administration-Beginning Network Server Scripting	6 credits 3 3
Term 10150121	Server Administration-Intermediate	3 credits 3
Total credits 12		

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. For details, go to mstc.edu/classfinder.

course descriptions

Hardware Essentials

10154102**3 credits** The first in a two-course series that aligns with the CompTIA A+ certification. This class is designed to teach students how to build, configure, secure, network, and troubleshoot PCs. The course covers the objectives of the CompTIA A+ exams but is not designed or intended to be a "test prep" course. *Corequisite: English Composition 1 10801136*

Network Server Scripting

10150165**3 credits** Provides best practices and techniques in Linux and Windows shell and command line scripting using PowerShell and BASH.

Prerequisite: Hardware Essentials 10154102; Corequisite: Server Administration-Beginning 10150120

Server Administration-Beginning

10150120.....**3 credits** 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; and application software installation, backup, and recovery. *Prerequisite: Hardware Essentials 10154102*

Server Administration-Intermediate

10150121.....**3 credits** Expands on 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: Server Administration-Beginning 10150120



nursing

Associate in Applied Science (AAS) Program Code: 10-543-1 Total Credits: 65

The Associate Degree Nursing (ADN) program at Mid-State prepares each graduate to work successfully as a registered nurse (RN). Students acquire a balance of knowledge and technical skills in physical and biological sciences, social sciences, and nursing. They also contribute to classroom discussion, independent learning projects, simulation labs, and hands-on clinical experiences at area healthcare agencies. After completing the first year (32 credits), you can opt to take the national licensing test for Licensed Practical Nurse. After 65 credits you will be eligible to take the national licensing exam for Registered Nurse.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:	_
--------	---

When:

- With:____
- Official Transcripts

Mid-State Technical College

Student Services Assistant

1001 Centerpoint Drive

Stevens Point, WI 54481

- Criminal Background Statement of Understanding and Release of Information Form
- Technical Standards Form

Other: _____



ADAMS CAMPUS 401 North Main Adams, WI 53910



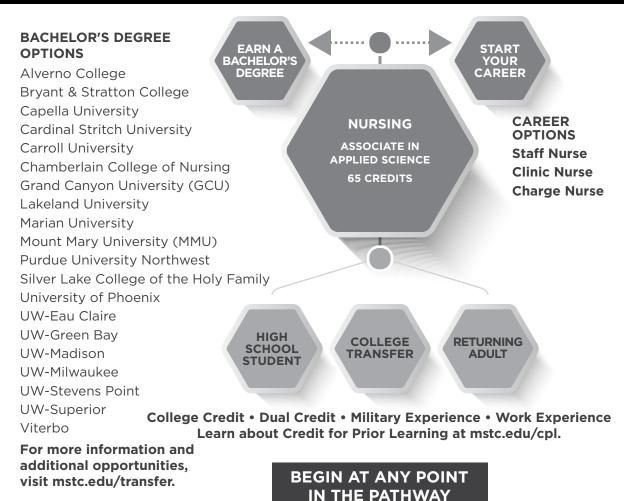
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



OTHER OPTIONS

RELATED PROGRAMS

- Central Service Technician
- Health Information Management
- Health & Wellness Promotion
- Medical Assistant
- Medical Coder
- Nursing Assistant
- Pharmacy Services Management
- Pharmacy Technician
- Phlebotomy Technician
- Respiratory Therapy
- 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, and physical sciences as well as 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.

TECHNICAL SKILLS ATTAINMENT

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. Nursing students will take the NCLEX exam, and the results from this exam will satisfy the TSA requirement.

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

TO APPLY

To apply to the Nursing program, please submit the following to Mid-State Admissions:

Step 1:

- 1. Complete a Mid-State Application form and return it with a \$30 non-refundable application fee.
- Submit the Criminal Background Statement of Understanding and Release of Information form. This form is available at mstc.edu/programs/nursing.

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

 Submit Technical Standards form. This form is available at mstc.edu/programs/nursing.

Step 2 (required prior to starting core nursing classes):

1. Complete the Accuplacer or ACT test (if needed, as determined by academic advisor).

- 2. Complete the Nursing Assistant pre-requisite requirement if needed.
- Completion of the following courses with a grade of "C" or better:
 - General Anatomy & Physiology
 - Advanced Anatomy & Physiology
 - Developmental Psychology
 - English Composition 1

General Advising Note

Students are highly encouraged to complete the following courses with a grade of "C" or better prior to starting nursing courses:

- Intro to Psychology
- Intro to Sociology or Introduction to Diversity Studies
- Microbiology
- Oral/Interpersonal Communication or Speech

TECHNICAL STANDARDS

A list of specific physical, emotional, and mental tasks needed to function as a nurse is available at **mstc.edu/ programs/nursing**. Contact the Disability Services coordinator in the Student Services & Information Center 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 health work to 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. Mid-State will make two attempts to place a student in an appropriate clinical experience. If Mid-State 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.

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.
- 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.

A student may repeat the same course only once in the ADN program. If the course is failed a second time, the student will be withdrawn from the Nursing program. If an ADN student fails four separate nursing courses, the student will be withdrawn from the program. Failures will include failing the same course or failing different courses. A withdrawal grade of "W" counts as one attempt for the course.

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, a graduate of Mid-State's Nursing program can expect approximately 60–70 credits to transfer from Mid-State to a Wisconsin university.

ELIGIBILITY REQUIREMENTS FOR REGISTERED NURSE EXAMINATION

- 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.

MAINTAINING A NURSING LICENSE

The Wisconsin State Board of Nursing may revoke, limit, suspend, or deny renewal of license if the person has 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 that show practitioner to be unfit or incompetent.
- 4. Misconduct or unprofessional conduct.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

108381042 credits Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109.....**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Required Nursing C 10806177 10806179 10809188 10801136	Prior to Beginning14 creCourses14 creGeneral Anatomy & PhysiologyAdvanced Anatomy & PhysiologyDevelopmental PsychologyEnglish Composition 1	dits 4 4 3 3
Term	16 cre	dits
10543101 10543102 10543103 10543104 10801196 10801198 10806197	Nursing Fundamentals Nursing Skills Nursing Pharmacology Nursing Introduction to Clinical Practice Oral/Interpersonal Communication* -or- Speech* Microbiology*	2 3 2 2 3 4
Term	10 cre	dits
10543105 10543106 10543107 10543108	Nursing Health Alterations Nursing Health Promotion Nursing: Clinical Care Across the Lifespan Nursing Introduction to Clinical Care Management	3 3 2 2
Term	12 cre	dite
10543109 10543110	Nursing: Complex Health Alterations 1 Nursing: Mental Health and	3
10543111 10543112 10809198	Community Concepts Nursing: Intermediate Clinical Practice Nursing Advanced Skills Intro to Psychology*	2 3 1 3
Term	13 cre	dits
10543113 10543114	Nursing: Complex Health Alterations 2 Nursing: Management and	3
10543115 10543116 10809172	Professional Concepts Nursing: Advanced Clinical Practice Nursing: Clinical Transition Introduction to Diversity Studies* -or-	2 3 2
10809196	Intro to Sociology* Total Credit	3 5 65

*Students are highly encouraged to have these courses completed with a grade of "C" or better prior to starting nursing courses

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Required Term 10806177	Prior to Beginning Nursing Courses 7 cre General Anatomy & Physiology	edits
10809188	Developmental Psychology	3
Term 10806179 10801136	7 cre Advanced Anatomy & Physiology English Composition 1	edits 4 3
	ended Prior to Beginning Nursing Cou 13 cre	
Term 10801196 10801198 10806197 10809172	Oral/Interpersonal Communication -or- Speech Microbiology Introduction to Diversity Studies -or-	3 4
10809196 10809198	Intro to Sociology Intro to Psychology	3 3
Term 10543101 10543102 10543103 10543104	9 cre Nursing Fundamentals Nursing Skills Nursing Pharmacology Nursing Introduction to Clinical Practice	edits 2 3 2 2
Term 10543105 10543106 10543107 10543108	10 cre Nursing Health Alterations Nursing Health Promotion Nursing: Clinical Care Across the Lifespan Nursing Introduction to Clinical Care Management	edits 3 3 2 2
Term	9 cre	dits
10543109 10543110	Nursing: Complex Health Alterations 1 Nursing: Mental Health and Community Concepts	3
10543111 10543112	Nursing Advanced Skills	2 3 1
Term	10 cre	
10543113 10543114	Nursing: Complex Health Alterations 2 Nursing: Management and Professional Concepts	3 2
10543115 10543116	Nursing: Advanced Clinical Practice Nursing: Clinical Transition	3 2
	Total Credit	s 65

course descriptions

Advanced Anatomy & Physiology

10806179..... 4 credits 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. 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

Developmental Psychology

10809188.....3 credits Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

General Anatomy & Physiology

10806177.....**4 credits** 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: High School GPA of 3.0 or Accuplacer Reading Skills of 236 or ACT of 15, or General Chemistry 10806134 with a grade of "C" or better, or General Biology 10806114 with a grade of "C" or better, or Human Body in Health & Disease 10509102 with a "C" or better. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Psychology

108091983 credits

This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Sociology

10809196.....**3 credits** Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Diversity Studies

10809172.....3 credits 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Microbiology

10806197.....**4 credits** 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 with a "C"* or better, or General Biology 10806114 with a "C" or better, or *Plant Biology 10806184 with a grade of "C" or better*

Nursing Advanced Skills

10543112.....**1 credit** Focuses on the development of advanced clinical skills across the lifespan. 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; Corequisites: Nursing: Complex Health Alterations 10543109, Nursing: Mental Health and Community Concepts 10543110

Nursing Fundamentals

10543101.....**2 credits** 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. Introduces the nursing process as a framework for

organizing the care of patients.

Prerequisite: Successful completion of all Step 2 Nursing program required courses and space availability; Nursing Assistant 30543300

Nursing Health Alterations

10543105**3 credits** Elaborates on the basic concepts of health and illness

as presented in Nursing Fundamentals. Applies theories of nursing in the care of patients through the lifespan, using problem solving and critical thinking. Provides an opportunity to study conditions affecting different body systems and apply evidence-based nursing interventions. Also introduces concepts of leadership and management. *Prerequisites: Nursing Fundamentals 10543101, Nursing Skills 10543102, Nursing Pharmacology 10543103, and Intro to Clinical 10543104*

Nursing Health Promotion

10543106**3 credits** Focuses on topics related to health promotion for individuals and families throughout the lifespan. Covers nursing care of the developing family, including reproductive issues, pregnancy, labor and delivery, post-partum, the newborn, and the child. Recognizing the spectrum of healthy families, students discern patterns associated with adaptive and maladaptive behaviors applying mental health principles. Emphasizes teaching and supporting healthy lifestyle choices for individuals of all ages. Nutrition, exercise, stress management, empowerment, and risk reduction practices are highlighted. Study of the family covers dynamics, functions, discipline styles, and stages of development.

Prerequisites: Nursing Fundamentals 10543101, Nursing Skills 10543102, Nursing Pharmacology 10543103, and Intro to Clinical Practice 10543104

Nursing Introduction to Clinical Care Management 105431082 credits

Applies nursing concepts and therapeutic nursing interventions to groups of clients across the lifespan. 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; Corequisite: Nursing Health Alterations 10543105

Nursing Introduction to Clinical Practice

105431042 credits 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 2 Nursing program required courses and space availability; Corequisites: Nursing Fundamentals 10543101, Nursing Skills 10543102, and Nursing Pharmacology 10543103*

Nursing Pharmacology

10543103.....2 credits Introduces the principles of pharmacology, including drug classifications and their effects on the body. Emphasizes the use of the components of the nursing process when administering medications.

Prerequisite: Successful completion of all Step 2 Nursing program required courses and space availability.

Nursing Skills

10543102.....3 credits Focuses on development of evidence-based clinical skills and physical assessment across the lifespan. Includes mathematical calculations and conversions related to clinical skills. Teaches techniques related to obtaining a health history and basic physical assessment skills using a body systems approach.

Prerequisite: Successful completion of all Step 2 Nursing program required courses and space availability; Nursing Assistant 30543300

Nursing: Advanced Clinical Practice

10543115.....**3 credits** 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. Emphasizes continuity of care through interdisciplinary collaboration.

Prerequisites: Complex Health Alterations 1 10543109, Mental Health & Community Concepts 10543110, Intermediate Clinical Practice 10543111, and Nursing Advanced Skills 10543112; Corequisites: Nursing: Complex Health Alterations 2 10543113 and Nursing: Management and Professional Concepts 10543114

Nursing: Clinical Care Across the Lifespan

10543107.....2 credits Applies nursing concepts and therapeutic interventions to clients across the lifespan. Provides an introduction to concepts of teaching and learning, and emphasizes extending care to include the family.

Prerequisites: Nursing Fundamentals 10543101, Nursing Skills 10543102, Nursing Pharmacology 10543103, and Intro to Clinical Practice 10543104; Corequisite: Nursing Health Promotion 10543106

Nursing: Clinical Transition

105431162 credits This clinical experience integrates all knowledge learned in the previous courses in transitioning to the role of the graduate nurse. Promotes relatively independent clinical decisions, delegation, and working collaboratively with others to achieve client and organizational outcomes. Fosters continued professional development. *Corequisite: Advanced Clinical Practice 10543115*

course descriptions

Nursing: Complex Health Alterations 1

10543109.....**3 credits** Prepares the student to provide and evaluate care for patients across the lifespan with alterations in cardiovascular, respiratory, endocrine, and hematologic systems. Also focuses on patients with fluid/electrolyte and acid-base imbalance as well as alterations in comfort. *Prerequisites: Health Alterations 10543105, Nursing Health Promotion 10543106, Clinical Care Across the Lifespan 10543107, and Intro to Clinical Care Management 10543108*

Nursing: Complex Health Alterations 2

10543113.....3 credits Prepares students 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. Includes a focus on managing 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

Nursing: Intermediate Clinical Practice

10543111.....**3 credits** This intermediate-level clinical course develops the RN role when working with clients with complex health care needs. Includes 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; Corequisites: Complex Health Alterations 10543109, Mental Health and Community Concepts 10543110, and Advanced Skills 10543112*

Nursing: Management and Professional Concepts 105431142 credits

Covers nursing management and professional issues related to the role of the registered nurse. Emphasizes 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

Nursing: Mental Health and Community Concepts 105431102 credits

Covers topics related to the delivery of community and mental health care. Specific health needs of individuals, families, and groups are 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

Oral/Interpersonal Communication

10801196**3 credits** Focuses on developing effective listening techniques and

verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*



nursing assistant

Technical Diploma Program Code: 30-543-1 Total Credits: 3

The Nursing Assistant program at Mid-State provides hands-on learning that prepares students to assist in the care of patients in hospitals, extended care facilities, and home care situations. This 120-hour program includes online learning, campus lab experiences, and a 40-hour clinical practicum working with patients and residents. Skills labs ensure students have opportunities to practice skills under the supervision of experienced professionals. Personal care and emotional support of patients are always primary considerations. Upon completion of the course, students may choose to take the state certification exam.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:
When:_

With

- Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481
- Background Information Disclosure (BID) Form
- □ \$15 or Current Criminal Background Check
- Out-of-State Background Check (if you have lived outside of the State of Wisconsin in the last three years)
- Nursing Assistant Online Orientation & Quiz (good for 90 days)
- Technical Standards Form

Other: ____

mstc.edu 888.575.6782

ADAMS CAMPUS 401 North Main Adams, WI 53910



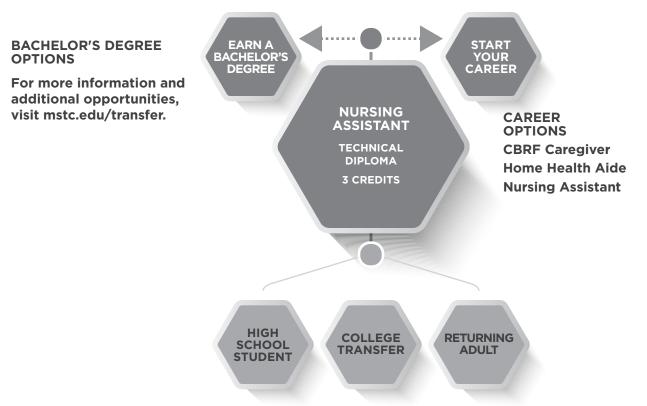
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



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Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Central Service Technician
- Health Information Management
- Health & Wellness Promotion
- Medical Assistant
- Medical Coder
- Nursing
- Pharmacy Services Management
- Pharmacy Technician
- Phlebotomy Technician
- Respiratory Therapy
- Surgical Technologist

PROGRAM OUTCOMES

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

- Communicate and interact effectively with clients, families, 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.
- Be eligible to take the WI NA Competency evaluation.

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

TECHNICAL SKILLS ATTAINMENT

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. Nursing Assistant students will fulfill the TSA requirement with successful completion of the Nursing Assistant course.

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

ADDITIONAL ENTRY CRITERIA

To apply to the Nursing Assistant program, please submit the following documents to Mid-State Admissions:

GPA of 2.6 as a high school junior or above.

Complete a Background Information Disclosure (BID) form and submit \$15 Caregiver Background check. The Wisconsin Caregiver Law requires a background check.

Must be at least 16 years of age.

After satisfactorily completing above steps, complete an online information session and accompanying quiz found on the Nursing Assistant accepted student website. 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 the steps above, he/she is then able to register for the Nursing Assistant course.

Mid-State Technical College • 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.

TECHNICAL STANDARDS

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 & Information Center 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 health work.

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. Mid-State will make two attempts to place a student in an appropriate clinical experience. If Mid-State 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.

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

- a. Submit evidence of completed health work.
- b. Obtain the required uniform for clinical experiences.
- c. Accept 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 the Nursing Assistant 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

- 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 a requirement for the Associate Degree Nursing program.
- Nursing Assistant program is a prerequisite for admission to the Nursing program.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

SAMPLE FULL-TIME CURRICULUM OPTION

Term

30543300 Nursing Assistant

(3 credits) 3

Total Credits 3

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. For details, go to **mstc.edu/classfinder**.

course descriptions

Nursing Assistant

30543300.....3 credits 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 this 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 clients' rights, and care of clients with dementias. The program is recognized by the Wisconsin Department of Health Services as a nurse-aide training program. Upon successful completion of the program, students are 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 Checklist within last 3 months



office support specialist

Technical Diploma Program Code: 31-106-8 Total Credits: 32

Mid-State's Office Support Specialist program develops students into key members of an office team. The program emphasizes document preparation and the effective use of personal interactions and ever-changing technology to support your role as the central communications link in an office. You'll experience hands-on learning through the organization of high-profile events. You'll also learn to handle multiple projects and deadlines, manage time, solve problems, and be helpful in nature—all in high demand by employers.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:	
When:	

- With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481
- Other: _____



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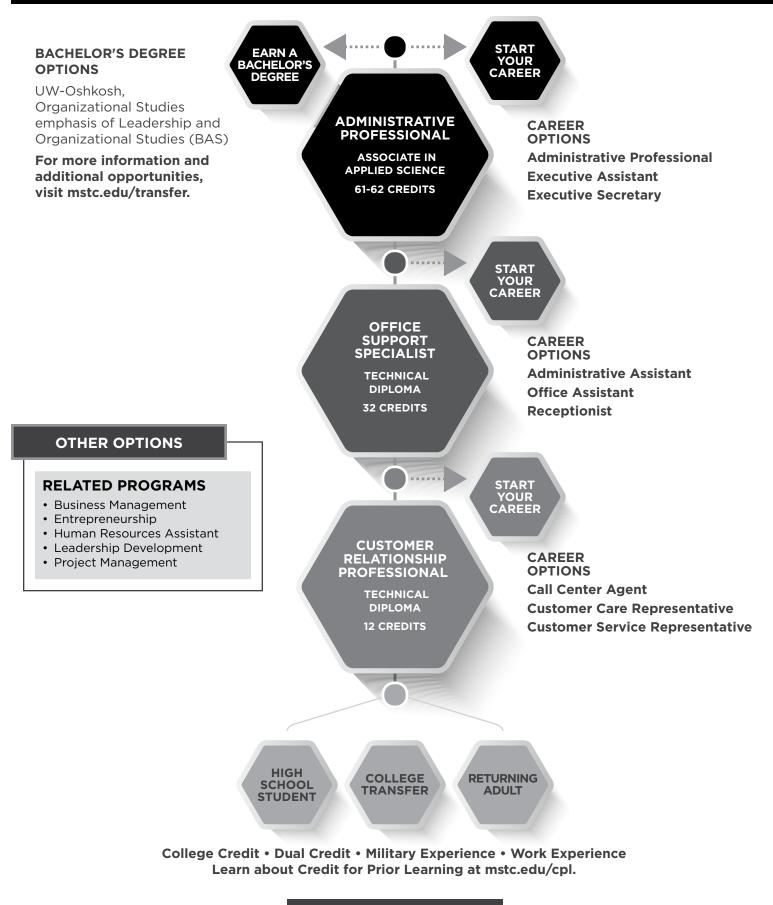
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career pathway



BEGIN AT ANY POINT IN THE PATHWAY

PROGRAM OUTCOMES

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

- Perform accurate workplace communications.
- Use technology skills for business tasks.
- Perform routine office procedures.
- Demonstrate professionalism and effective workplace relationships.

TECHNICAL SKILLS ATTAINMENT

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.

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.

MOBILE DEVICE ENHANCEMENT

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

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10103106 10106106 10106157 10801136 10809172	Microsoft Office-Introduction* Quality Customer Service* Document Formatting English Composition 1* Introduction to Diversity Studies*	15 credits 3 3 3 3 3 3 3
Term 10103114 10103125 10106140 10106150 10106158 10106172 10801196	Word-Intermediate* Excel Applications* Business Information Management Administrative Office Procedures Proofreading & Editing Digital Communication Technology Oral/Interpersonal Communication*	17 credits 1 2 3 3 2 3 3 3 3
	Total	credits 32

* This course may also be offered in a different term including during winterim or summer terms, with 3-week, 8-week, or 16-week sessions available. A variety of modalities and class lengths may be available, including online, hybrid, TelePresence, or face to face.

Please Note:

- This program can be completed entirely online.
- Students complete a full-time course load over a 16-week term. This term may include a combination of classes taken in an 8-week session and classes taken over the full 16-week term.
- 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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10103106 10106157 10809172	Microsoft Office-Introduction* Document Formatting Introduction to Diversity Studies*	9 credits 3 3 3 3
Term 10106106 10106158 10801136	Quality Customer Service* Proofreading & Editing English Composition 1*	8 credits 3 2 3
Term 10103114 10103125 10801196	Word-Intermediate* Excel Applications* Oral/Interpersonal Communication*	6 credits 1 2 3
Term 10106140 10106150 10106172	Business Information Management Administrative Office Procedures Digital Communication Technology	9 credits 3 3 3 3
	Total	credits 32

NOTES:

course descriptions

Administrative Office Procedures

10106150.....**3 credits** 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: English Composition 1 10801136 and Microsoft Office-Introduction 10103106

Business Information Management

10106140.....**3 credits** 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*

Digital Communication Technology

10106172**3 credits** Introduces the student to digital and communication technology used in the office today, including digital cameras, digital video cameras, video conferencing, web conferencing, and multimedia presentations. The content focuses on understanding communication technologies and

how they impact employees. Corequisite: Microsoft Office-Introduction 10103106

Document Formatting

10106157**3 credits** Students are able to format styles of business letters, business and academic reports, memos, tables, business meeting documents, itineraries, legal documents, and business forms. 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

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10831103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Excel Applications

10103125.....2 credits Learners will expand on basic Excel skills including managing multiple workbooks and worksheets using 3D references, links, and hyperlinks. They will also learn to summarize and analyze data using subtotals, PivotTables, PivotCharts, Goal Seek, Solver and Scenario Manager tools. This course teaches students to gather data and turn it into meaningful information used for business decision-making. Prerequisites: Microsoft Office Introduction 10103106 or Excel Beginning 10103123

Introduction to Diversity Studies

10809172....**3 credits** 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Microsoft Office-Introduction

10103106.....**3 credits** Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, PowerPoint, and Outlook) while reinforcing the students' knowledge of computer concepts, Windows Explorer, and web usage. Students should possess basic keyboarding, mouse and Windows 10 skills. Students may develop these skills in the LiNK while concurrently enrolled in this course.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Proofreading & Editing

10106158**2 credits** Sharpens proofreading and editing skills. Competencies include 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*

Quality Customer Service

10106106.....**3 credits** Addresses sensitivity in communicating with customers and co-workers. Includes international communications, teamwork, working relationships, and telephone skills.

Word-Intermediate

10103114.....**1 credit** Students learn to create more complex documents using Microsoft Word as well as customize the Word environment. Students also learn to use mail merge, macros, collaborate with others, and combine information into one file. *Prerequisite: Microsoft Office-Introduction 10103106 or Word-Beginning 10103113*



paramedic technician

Associate in Applied Science (AAS) Program Code: 10-531-1 Total Credits: 66

Mid-State's Paramedic Technician program prepares students with the knowledge and skills to work competently as an entry-level paramedic. In this associate degree program, students will complete two semesters of general studies as well as two semesters of core paramedic courses in a joint cohort with students in the EMT-Paramedic program. You will learn prehospital skills in the classroom, skills laboratory, hospital, and prehospital settings. Upon successful completion, you will earn certifications in Advanced Cardiac Life Support, Prehospital Trauma Life Support, and Pediatric Advanced Life Support and be eligible to take the National Registry written and practical examinations.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:	_
--------	---

When:

With:_____

Official Transcripts

Mid-State Technical College

Student Services Assistant

1001 Centerpoint Drive

Stevens Point, WI 54481

Criminal Background Statement of Understanding and Release of Information Form

Other:

mstc.edu 888.575.6782

> ADAMS CAMPUS 401 North Main Adams, WI 53910



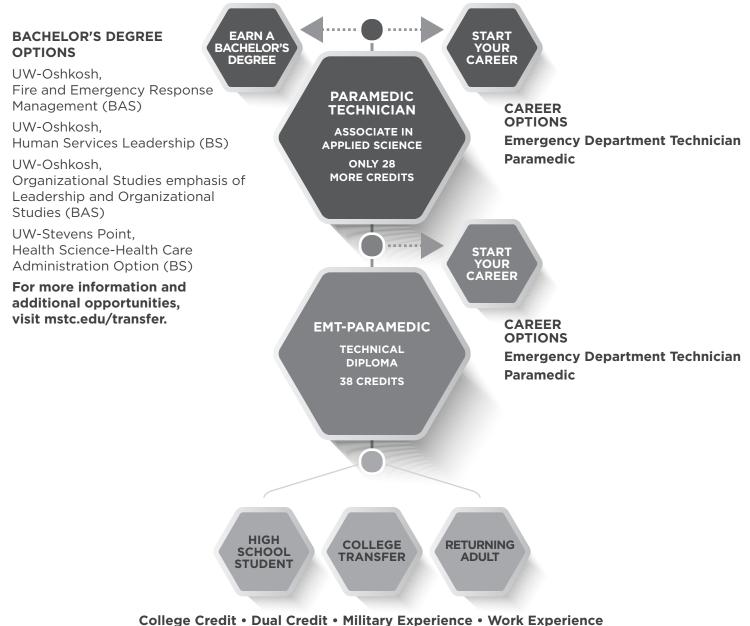
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career pathway



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OTHER OPTIONS RELATED PROGRAMS • Corrections & Community Advocacy • Criminal Justice-Law Enforcement 720 Academy • Criminal Justice-Studies • Emergency Medical Technician • Emergency Services Management • Fire Protection Technician

BEGIN AT ANY POINT IN THE PATHWAY

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 to provide appropriate patient care.
- 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 competencies listed for paramedic credentialing.

Paramedic Technician is based upon the US Department of Transportation Administration/Wisconsin Bureau Local Health Support and EMS curriculum.

TECHNICAL SKILLS ATTAINMENT

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. Students will fulfill the TSA requirements when they complete the clinical and field courses.

ADDITIONAL ENTRY CRITERIA

To apply to the Paramedic Technician program, please submit the following document to Mid-State Admissions:

Step 1:

Criminal Background Statement of Understanding and Release of Information form.

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

Completion of step 1 requirements allows the student to begin general education courses.

If you are taking Emergency Medical Technician program courses as part of the Paramedic Technician program, you must apply to Emergency Medical Technician program (30-531-3) separately. Although the Emergency Medical Technician program is part of the curriculum, it is handled as a stand-alone program for admission purposes.

Step 2:

Submit a current Wisconsin EMT license.

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

Completion of the Step 2 requirement will make the student eligible for entry into the Paramedic core courses. 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.

TECHNICAL STANDARDS

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 & Information Center to receive assistance.

CLINICAL-RELATED REQUIREMENTS

Prior to placement at a clinical site, students need to pay for a criminal background check through a private vendor. Students will be required to provide documentation of required health work and current healthcare provider CPR certification via a Blackboard assignment. 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. Mid-State will make two attempts to place a student in an appropriate clinical experience. If Mid-State 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.

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

- a. Provide evidence of completion of the required health work.
- b. Hold a current State of Wisconsin EMT license.
- c. Hold a Department of Health Services EMS 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

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 on to the next course in the sequence until they have retaken the course and achieved a grade of "C" or better.

All general 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.

STUDENT HANDBOOK

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GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109.....**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10531940 10801136 10806177 10809122 10809172 10809196 10809198	EMT Foundations English Composition 1 General Anatomy & Physiology Intro to American Government -or- Introduction to Diversity Studies -o Intro to Sociology Intro to Psychology	16 credits 3 3 4 r- 3 3 3
Term 10531941 10801196 10801197 10801198 10804107 10806134 10806179	EMT Applications Oral/Interpersonal Communication Technical Reporting -or Speech College Mathematics General Chemistry -or- Advanced Anatomy & Physiology	12 credits 2 -or- 3 3 4
Term 10531911 10531912 10531913 10531914 10531915 10531917 10531918 10531955	EMS Fundamental Paramedic Medical Principles Patient Assessment Principles Prehospital Pharmacology Paramedic Respiratory Managemen Paramedic Clinical/Field 1 Advanced Resuscitation Paramedic Cardiology 1	20 credits 2 4 3 5 t 2 3 1 2
Term 10531919 10531920 10531921 10531922 10531953 10531956 10531957 10531958	Paramedic Medical Emergencies Paramedic Trauma Special Patient Populations EMS Operations Paramedic Capstone Paramedic Cardiology 2 Paramedic Field Experience Paramedic Field Leadership	18 credits 4 3 1 1 2 3 1 credits 66

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. For details, go to **mstc.edu/classfinder**.

course descriptions

Advanced Anatomy & Physiology

10806179.....4 credits 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. 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

Advanced Resuscitation

10531918.....**1 credit** By teaching advanced cardiac life support (ACLS) and pediatric advanced life support (PALS) methodologies and protocols, this course prepares the paramedic student to integrate comprehensive knowledge of causes and pathophysiology into the management of shock, respiratory failure, respiratory arrest, cardiac arrest, and peri-arrest states. Emphasizes early intervention to prevent respiratory and/or cardiac arrest if possible.

Prerequisite: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

EMS Fundamental

105319112 credits

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. Students obtain fundamental knowledge of public health principles and epidemiology as related to public health emergencies, health promotion, and illness/ injury prevention. Introduces students to comprehensive anatomical and medical terminology and abbreviations with the aim of fostering the development of effective written and oral communications with colleagues and other healthcare professionals.

Prerequisites: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311 and Wisconsin Emergency Medical Technician (or higher) license

EMS Operations

10531922.....**1 credit** Provides paramedic students with the knowledge of operational roles and responsibilities to ensure patient, public, and EMS personnel safety. *Prerequisite: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311*

EMT Applications

10531941.....2 credits Course covers the bulk of the Emergency Medical Technician certification course to include the handling of cervical and spine injuries, burn injuries, heart- and breathing-related problems, shock, and other trauma injuries. Includes several lab days to practice and perfect skills, clinical time, and extensive hands-on activities. Prepares students for national certification testing for EMT. To maintain National Registry certification eligibility this course must be finished the semester following the completion of EMT Foundations. *Prerequisite: EMT Foundations 10531940*

EMT Foundations

10531940.....**3 credits** Covers the basics of the Emergency Medical Technician certification course to include CPR, airways, anatomy, hazmat response requirements, lifting and moving patients, incident command, and other technical information. It is the first part of a two-course system to prepare students for national certification testing for EMT.

Prerequisite: Admission to Paramedic Technician program 105311 OR Emergency Medical Technician program 305313 OR Fire Protection Technician program 105032

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

General Anatomy & Physiology

10806177.....**4 credits** 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: High School GPA of 3.0 or Accuplacer Reading Skills of 236 or ACT of 15, or General Chemistry 10806134 with a grade of "C" or better, or General Biology 10806114 with a grade of "C" or better, or Human Body in Health & Disease 10509102 with a "C" or better. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

General Chemistry

10806134 4 credits Covers the fundamentals of chemistry. Topics include the metric system; problem solving; periodic relationships; chemical reactions, chemical equilibrium; properties of water; acids, bases, and salts; and gas laws. High School GPA of 3.0 or Accuplacer QAS of 246 or ACT of 19, and College Mathematics 10804107 with a "C" or better, or Intermediate Algebra with Applications 10804118 with a "C" or better. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to American Government

10809122.....3 credits 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Psychology

108091983 credits

This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Sociology

10809196.....**3 credits** Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Diversity Studies

10809172.....**3 credits** 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Paramedic Capstone

10531923.....**1 credit** Provides students 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 program 105311 or EMT-Paramedic program 315311

Paramedic Cardiology 1

10531955.....**2 credits** Provides basic knowledge to integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment for the patient with cardiovascular disease.

Prerequisite: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311

Paramedic Cardiology 2

10531956.....**2 credits** Teaches the paramedic student knowledge and skills 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 variety of cardiovascular complaints. *Prerequisite: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311*

Paramedic Clinical/Field 1

10531917.....3 credits Enhances student learning through the practice of paramedicine in field and healthcare environment experiences with actual patients under the supervision of instructors or approved preceptors. Students may also have the opportunity to participate informal high-fidelity human patient simulator experiences as a part of this course. *Prerequisites: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311, Advanced Prehospital Pharmacology 10531914, and a current Wisconsin license at the Emergency Medical Technician (or higher) level*

Paramedic Field Experience

10531957.....**3 credits** Provides the opportunity to enhance learning through the practice of paramedicine in a field environment and through 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 program 105311 or EMT-Paramedic program 315311*

Paramedic Field Leadership

10531958.....**1 credit** Provides the opportunity to act as the field team leader in a field environment and through experiences with actual patients under the supervision of instructors or approved preceptors. Successful completion of this course requires the student to meet all team leader competency requirements at the paramedic level as defined by WI DHS EMS and the COAEMSP.

Prerequisite: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311

Paramedic Medical Emergencies

10531919......4 credits 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 program 105311 or EMT-Paramedic program 315311

Paramedic Medical Principles

10531912.....**4 credits** 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 program 105311 or EMT-Paramedic program 315311

Paramedic Respiratory Management

10531915......**2 credits** 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. Also provides specific knowledge pertaining to the respiratory system 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 program 105311 or EMT-Paramedic program 315311

Paramedic Trauma

10531920.....3 credits 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 program 105311 or EMT-Paramedic program 315311

Patient Assessment Principles

10531913.....**3 credits** Teaches the paramedic student to integrate scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression. Uses a structured and organized assessment process that draws on knowledge of anatomy, physiology, pathophysiology, life span development, and changes that occur to the human body with time. Using this process students learn to develop a list of differential diagnoses through clinical reasoning and modify the assessment as necessary to formulate a treatment plan for their patients. *Prerequisite: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311*

Prehospital Pharmacology

10531914**3 credits** 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 program 105311 or EMT-Paramedic program 315311

Special Patient Populations

10531921.....3 credits 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. Also includes gynecological emergencies, along with special considerations in trauma. *Prerequisite: Admission to Paramedic Technician program 105311 or EMT-Paramedic program 315311*

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Technical Reporting

10801197**3 credits** 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: English Composition I 10801136 with a grade of "C" or better or Written Communication 10801195 with a grade of "C" or better. Proficiency in word processing skills recommended.*



pharmacy services management

Associate in Applied Science (AAS) Program Code: 10-536-1 Total Credits: 60

Graduates of Mid-State's Pharmacy Services Management program are prepared to advance their roles as pharmacy technicians or transition into other roles related to the pharmacy. Their skills and knowledge include third-party payment processing, staff scheduling processes, customer service, and enhancing store sales. In this program, you'll be introduced to business operations and apply what you've learned through a capstone course. This provides hands-on experience with increasing store sales, creating efficient operations, improving management practices, or enhancing service to patients in a real-life situation. Core program courses are offered via video conference hosted by Lakeshore Technical College (LTC) and are supported by select classes available with Mid-State.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

Follow-Up Appointment: Where: _____

With:

Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481



ADAMS CAMPUS 401 North Main Adams, WI 53910



MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449

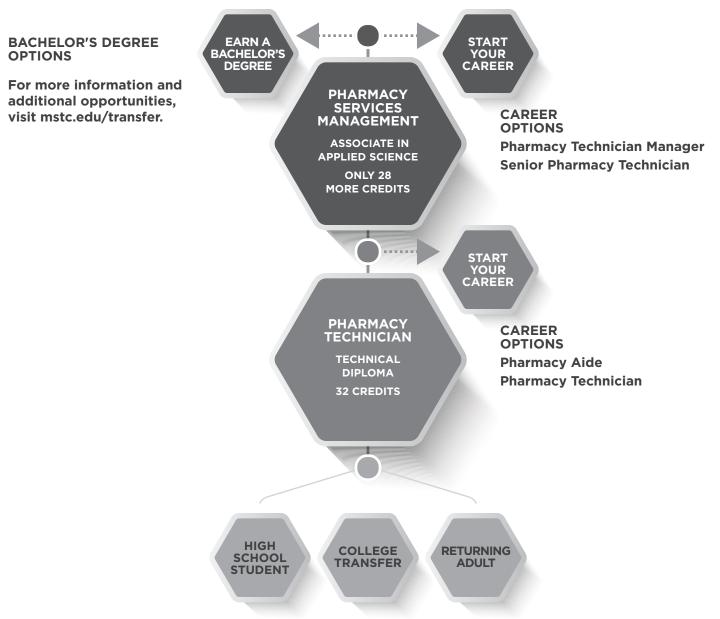


STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

Other:_____

career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.

OTHER OPTIONS

RELATED PROGRAMS

- Central Service Technician
- Health Information Management
- Health & Wellness Promotion
- Medical Assistant
- Medical Coder
- Nursing
- Nursing Assistant
- Phlebotomy Technician
- Respiratory Therapy

Surgical Technologist

BEGIN AT ANY POINT IN THE PATHWAY

PROGRAM OUTCOMES

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

- Perform all pharmacy technician functions.
- Incorporate into practice professional ethics, laws, regulations, and policies established by the licensing state and regulatory agencies (Pharmacy Examining Board, FDA, DEA).
- Pursue lifelong professional growth and development through self-directed learning, participation in professional organizations, and continuing education.
- Maintain an awareness of developments in the pharmacy and management fields as they relate to job responsibilities.
- Manage human resources and employee development.
- Resolve conflict and build teams.
- Implement a mission and goals.
- Demonstrate critical-thinking and problem-solving skills.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in the Advanced Pharmacy Services Applications course.

ADMISSIONS PROCEDURES

To apply to the Pharmacy Services Management 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:
 - Arithmetic Accuplacer score of 50
 - ACT equivalents 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. To learn about your options or schedule an Accuplacer test, contact the Student Services & Information Center on your Mid-State campus.

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

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.

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.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

108381042 credits

Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109.....**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10501101 10501102 10536110 10536113 10536115 10536120 10536122	18 cred Medical Terminology Health Insurance and Reimbursement* Pharmaceutical Calculations* Pharmacy Business Applications* Pharmacy Law* Fundamentals of Reading Prescriptions* Pharmacology*	its 3 3 3 2 1 3
Term	14 cred	its
10536125	Pharmacy Drug Distribution Systems*	2
10536126	Pharmacy Parenteral Admixtures*	3
10536138	Pharmacy Community Clinical*	2
10536141	Pharmacy Computer Lab*	2
10536143	Pharmacy Hospital Clinical*	2
10801196	Oral/Interpersonal Communication	3
Term	16 cred	its
10103123	Excel-Beginning	1
10104102	Marketing Principles -or-	3
10182108	Purchasing*	3
10801136	English Composition 1	3
10806112	Principles of Sustainability*	3
10809195	Economics	3
10809198	Intro to Psychology	3
Term 10182102 10102101 10196191 10536150 10809166 10809172	12 cred Service Operations Management* -or- Introduction to Business Supervision Advanced Pharmacy Services Applications* Intro to Ethics: Theory & Application -or- Introduction to Diversity Studies	3 3 3 3

*These courses are offered through Lakeshore Technical College but may be taken via Telepresence at Mid-State's Stevens Point campus.

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. For details, go to **mstc.edu/classfinder**.

Advanced Pharmacy Services Applications

10536150.....3 credits Allows the learner to integrate skills learned in the Pharmacy Services Management courses and apply them to the pharmacy workplace. Areas include staff training, development, supervision, and scheduling; customer service; PBM processing and claims rejection management; and improving efficiency of operations, maximizing profits, and increasing sales.

Prerequisites: All courses in the Associate Degree plan need to be completed prior to this course.

Economics

108091953 credits

Provides an overview of how a market-oriented economic system operates and surveys the factors that 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Excel-Beginning

10103123.....1 credit Students learn to create, modify, and format spreadsheets, charts, and graphics. Students also learn to perform calculations and analysis on data.

Fundamentals of Reading Prescriptions 10536120......1 credit

Prepares the learner to work in a community or hospital pharmacy by exploring the role of a pharmacy technician within the healthcare team, examining each step in the prescription filling process, and identifying the key top 200 drugs by brand and generic name and therapeutic class. *Condition: 315361 Pharmacy Technician admission requirements met*

Health Insurance and Reimbursement

10501102.....**3 credits** Provides the learner with an understanding of the various types of insurance and managed care plans, and the cycle of medical claims procession. The learner will review cases, develop critical thinking skills in analyzing information, and selecting processes for reimbursement success.

Intro to Ethics: Theory & Application

10809166.....**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Business

10102101......3 credits An introduction to what a business is, how it operates, and how it is managed. Students will identify forms of ownership and the processes used in production and marketing, finance, personnel and management in business operations.

Introduction to Diversity Studies

10809172.....**3 credits** 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Marketing Principles

10104102.....**3 credits** This course serves as an introduction to the fundamental marketing concepts used to apply marketing strategies to product development, distribution, pricing, and promotion of goods and services.

Medical Terminology

10501101......3 credits Focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Learners practice formation, analysis, and reconstruction of terms. Emphasizes spelling, definition, and pronunciation. Introduces operative, diagnostic, therapeutic, and symptomatic terminology of all body systems as well as systemic and surgical terminology.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Pharmaceutical Calculations

105361103 credits Prepares the learner to enlarge and reduce formulas and solve proportions, dilutions, allegations, and other calculations pertinent to the preparation of pharmaceuticals using metric, apothecary, avoirdupois, and household measuring systems.

Condition: 315361 Pharmacy Technician, 105361 Pharmacy Services Management, or 195316 Employed Pharmacy Technician admission requirements met

Pharmacology

10536122.....**3 credits** Enhances the learner's ability to act and react appropriately in the pharmacy by learning how drugs work through examination of the anatomy, physiology, pathophysiology, and drug therapy for each of the major systems. *Condition: 315361 Pharmacy Technician, 105361 Pharmacy Services Management, 615361 Community Retail Pharmacy Technician, or 195361 Employed Pharmacy Technician admissions requirements met*

Pharmacy Business Applications

10536113.....**3 credits** Prepares the learner to utilize pharmaceutical business terminology, procedures, customer service, record keeping, purchasing procedures, inventory control systems, pricing, merchandising, reference materials, ethics, roles, responsibilities, and relationships with patients and coworkers. *Condition: 315361 Pharmacy Technician or 105231 Pharmacy Services Management program requirements met*

Pharmacy Community Clinical

10536138.....2 credits

Provides hands-on experience in a community pharmacy for 108 hours during term two. Areas of instruction include interpretation of prescriptions, entering prescriptions on computer, patient profiles, correctly filling and labeling prescriptions, billing patient and third parties, customer service, over-the-counter medications, purchasing, checking in deliveries, inventory control, compounding, and patient confidentiality.

Prerequisites: 10536110 Pharmaceutical Calculations, 10536120 Fundamentals of Reading Prescriptions, 10501102 Health Insurance & Reimbursement, 10536113 Pharmacy Business Applications; Condition: 315361 Pharmacy Technician, 105361 Pharmacy Services Management, or 615361 Community Retail Pharmacy Technician program requirements met

Pharmacy Computer Lab

10536141.....**2 credits** Expands the learner's ability to enter prescription orders and familiarizes learner with a variety of pharmacy software features, including updating pharmacy databases, running reports, and billing. This course is offered in a self-paced format.

Prerequisites: 10536120 Fundamentals of Reading Prescriptions; Condition: 315361 Pharmacy Technician or 105361 Pharmacy Services Management admissions requirements met

Pharmacy Drug Distribution Systems

10536125.....**2 credits** Is an introductory study of the basic drug distribution systems used in community and institutional pharmacies, including automation technology, pharmacist and pharmacy technician roles, and dispensing considerations. *Condition: 315361 Pharmacy Technician or 105361 Pharmacy Services Management admissions requirements met*

Pharmacy Hospital Clinical

10536143.....2 credits Provides the learner with the skills to prepare parenteral admixtures, fill medication carts and unit-dose drawers, control inventory, package medications, and maintain patient records in the hospital setting.

Prerequisites: 10536110 Pharmacy Calculations and Corequisite: 10536139 Pharmacy Community Clinical, 10536126 Pharmacy Parenteral Admixtures and 10536141 Pharmacy Computer Lab; Condition: 315361 Pharmacy Technician, or 105361 Pharmacy Services Management admissions requirements met

Pharmacy Law

10536115.....**2 credits** Introduces the learner to federal and state regulations that apply to pharmacy practice.

Condition: 315361 Pharmacy Technician, 105361 Pharmacy Services Management, or 195361 Employed Pharmacy Technician admissions requirements met

Pharmacy Parenteral Admixtures

10536126.....**3 credits** Provides the learner with the skills to utilize aseptic technique in vertical and horizontal laminar flow hoods for preparation of solutions and medications to be administered intravenously, intramuscularly, subcutaneously, and intradermally to patients.

Prerequisite: 10536110 Pharmaceutical Calculations; Condition: 315361 Pharmacy Technician, 105361 Pharmacy Services Management, or 195361 Employed Pharmacy Technician admission requirements met

Principles of Sustainability

10806112**3 credits** Prepares students to develop sustainable literacy, analyze interconnections among physical and biological sciences and environmental systems, summarize effects of sustainability on health and well-being, analyze connections among social, economic, and environmental systems, employ energy conservation strategies to reduce use of fossil fuels, investigate alternative energy options, evaluate options to current waste disposal/recycling in the U.S., and analyze approaches used by your community. *Corequisite: 10838105 Intro Reading and Study Skills or Reading placement assessment equivalent*

Purchasing

101821083 credits Introduces the participant to basic purchasing, quality specifications, inventory control, supplier selection, price aspects, research and measurement, negotiation, and global purchasing. This course is exciting for anyone interested in working in a challenging and rewarding purchasing and supply chain management career.

Service Operations Management

10182102**3 credits** Introduces the student to the basic coverage of the concepts and current issues in service operation management. Topics include the value equation in operations management; understanding services; building the service system; operating the service system; enterprise resource management (ERP); and supply chain management concepts in the service sector.

Supervision

10196191.....**3 credits** Applies 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.



pharmacy technician

Technical Diploma Program Code: 31-536-1 Total Credits: 32

Mid-State's Pharmacy Technician program provides hands-on learning that prepares students to assist licensed pharmacists in safely dispensing prescription medication. Graduates may work in hospital and retail pharmacies, nursing homes, and everywhere medications are prepared. In this program, you'll receive both lab and clinical experience in using pharmacy software to build patient profiles, as well as interpret and enter prescriptions. Core program courses are offered via video conference hosted by Lakeshore Technical College (LTC) and are supported by select classes available with Mid-State.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

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□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where: _	
When:	

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 Mid-State Technical College
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 1001 Centerpoint Drive
 Stevens Point, WI 54481

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Other: ______
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ADAMS CAMPUS 401 North Main Adams, WI 53910



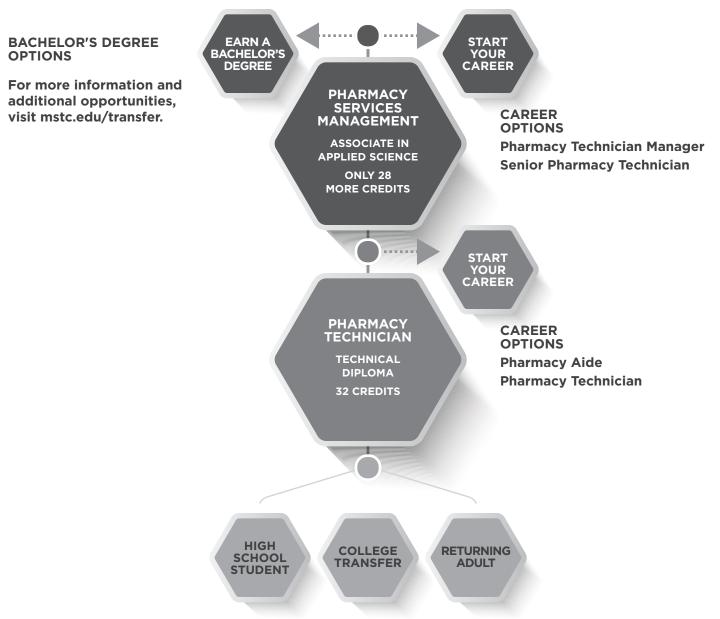
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.

OTHER OPTIONS

RELATED PROGRAMS

- Central Service Technician
- Health Information Management
- Health & Wellness Promotion
- Medical Assistant
- Medical Coder
- Nursing
- Nursing Assistant
- Phlebotomy Technician
- Respiratory Therapy

Surgical Technologist

BEGIN AT ANY POINT IN THE PATHWAY

PROGRAM OUTCOMES

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

- Demonstrate personal/interpersonal knowledge and skills in the practice of pharmacy.
- Demonstrate foundational professional knowledge and skills for the practice of pharmacy.
- Prepare prescriptions/medication orders and pharmaceutical products for dispensing, distribution, and disposal.
- Compound sterile and non-sterile medications.
- Follow established policies and procedures for procurement, billing, reimbursement, and inventory management.
- Utilize pharmacy technology and informatics.
- Adhere to state and federal regulations governing the practice of pharmacy.
- Apply the principles of quality assurance to the practice of pharmacy.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in the Pharmacy Community Clinical and Pharmacy Hospital Clinical courses.

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:
 - Arithmetic Accuplacer score of 50
 - ACT equivalents 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. To learn about your options or schedule an Accuplacer test, contact the Student Services & Information Center on your Mid-State campus.

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

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.

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.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

NOTES:

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

108381042 credits

Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109.....**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term	18 cre	
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	14 cre	dits
Term 10536125	14 cre Pharmacy Drug Distribution Systems*	dits 2
10536125	Pharmacy Drug Distribution Systems*	2
10536125 10536126	Pharmacy Drug Distribution Systems* Pharmacy Parenteral Admixtures*	2 3
10536125 10536126 10536138	Pharmacy Drug Distribution Systems* Pharmacy Parenteral Admixtures* Pharmacy Community Clinical*	2 3 2
10536125 10536126 10536138 10536141	Pharmacy Drug Distribution Systems* Pharmacy Parenteral Admixtures* Pharmacy Community Clinical* Pharmacy Computer Lab*	2 3 2 2

Total Credits 32

*These courses are offered through Lakeshore Technical College but may be taken via Telepresence at Mid-State's Stevens Point campus.

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. For details, go to **mstc.edu/classfinder**.

Fundamentals of Reading Prescriptions

10536120.....1 credit Prepares the learner to work in a community or hospital pharmacy by exploring the role of a pharmacy technician within the healthcare team, examining each step in the prescription filling process, and identifying the key top 200 drugs by brand and generic name and therapeutic class. *Condition: 315361 Pharmacy Technician admission requirements met*

Health Insurance and Reimbursement

10501102.....**3 credits** Provides the learner with an understanding of the various types of insurance and managed care plans, and the cycle of medical claims procession. The learner will review cases, develop critical thinking skills in analyzing information, and selecting processes for reimbursement success.

Medical Terminology

10501101......**3 credits** Focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Learners practice formation, analysis, and reconstruction of terms. Emphasizes spelling, definition, and pronunciation. Introduces operative, diagnostic, therapeutic, and symptomatic terminology of all body systems as well as systemic and surgical terminology.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Pharmaceutical Calculations

10536110**3 credits** Prepares the learner to enlarge and reduce formulas and solve proportions, dilutions, allegations, and other calculations pertinent to the preparation of pharmaceuticals using metric, apothecary, avoirdupois, and household measuring systems.

Condition: 315361 Pharmacy Technician, 105361 Pharmacy Services Management, or 195316 Employed Pharmacy Technician admission requirements met

Pharmacology

10536122.....**3 credits** Enhances the learner's ability to act and react appropriately in the pharmacy by learning how drugs work through examination of the anatomy, physiology, pathophysiology, and drug therapy for each of the major systems. *Condition: 315361 Pharmacy Technician, 105361 Pharmacy Services Management, 615361 Community Retail Pharmacy Technician, or 195361 Employed Pharmacy Technician admissions requirements met*

Pharmacy Business Applications

10536113.....3 credits Prepares the learner to utilize pharmaceutical business terminology, procedures, customer service, record keeping, purchasing procedures, inventory control systems, pricing, merchandising, reference materials, ethics, roles, responsibilities, and relationships with patients and coworkers. *Condition: 315361 Pharmacy Technician or 105231 Pharmacy Services Management program requirements met*

Pharmacy Community Clinical

10536138.....**2 credits** Provides hands-on experience in a community pharmacy for 108 hours during term two. Areas of instruction include interpretation of prescriptions, entering prescriptions on computer, patient profiles, correctly filling and labeling prescriptions, billing patient and third parties, customer service, over-the-counter medications, purchasing, checking in deliveries, inventory control, compounding, and patient confidentiality.

Prerequisites: 10536110 Pharmaceutical Calculations, 10536120 Fundamentals of Reading Prescriptions, 10501102 Health Insurance & Reimbursement, 10536113 Pharmacy Business Applications; Condition: 315361 Pharmacy Technician, 105361 Pharmacy Services Management, or 615361 Community Retail Pharmacy Technician program requirements met

Pharmacy Computer Lab

10536141.....2 credits Expands the learner's ability to enter prescription orders and familiarizes learner with a variety of pharmacy software features, including updating pharmacy databases, running reports, and billing. This course is offered in a self-paced format.

Prerequisites: 10536120 Fundamentals of Reading Prescriptions; Condition: 315361 Pharmacy Technician or 105361 Pharmacy Services Management admissions requirements met

Pharmacy Drug Distribution Systems

10536125.....**2 credits** Is an introductory study of the basic drug distribution systems used in community and institutional pharmacies, including automation technology, pharmacist and pharmacy technician roles, and dispensing considerations. *Condition: 315361 Pharmacy Technician or 105361 Pharmacy Services Management admissions requirements met*

Pharmacy Hospital Clinical

10536143.....**2 credits** Provides the learner with the skills to prepare parenteral admixtures, fill medication carts and unit-dose drawers, control inventory, package medications, and maintain patient records in the hospital setting.

Prerequisites: 10536110 Pharmacy Calculations and Corequisite: 10536139 Pharmacy Community Clinical, 10536126 Pharmacy Parenteral Admixtures and 10536141 Pharmacy Computer Lab; Condition: 315361 Pharmacy Technician, or 105361 Pharmacy Services Management admissions requirements met

Pharmacy Law

10536115.....**2 credits** Introduces the learner to federal and state regulations that apply to pharmacy practice.

Condition: 315361 Pharmacy Technician, 105361 Pharmacy Services Management, or 195361 Employed Pharmacy Technician admissions requirements met

Pharmacy Parenteral Admixtures

10536126.....**3 credits** Provides the learner with the skills to utilize aseptic technique in vertical and horizontal laminar flow hoods for preparation of solutions and medications to be administered intravenously, intramuscularly, subcutaneously, and intradermally to patients.

Prerequisite: 10536110 Pharmaceutical Calculations;

Condition: 315361 Pharmacy Technician, 105361 Pharmacy Services Management, or 195361 Employed Pharmacy Technician admission requirements met



phlebotomy technician

Technical Diploma Program Code: 30-513-1 Total Credits: 13

Mid-State's Phlebotomy Technician program teaches blood collecting techniques to provide samples for lab analysis, including venipuncture, skin punctures, and arterial punctures. You will also learn to perform various lab procedures, including specimen processing. Our program is among the few in Wisconsin approved by the National Accrediting Agency for Clinical Laboratory Sciences. The course of study is quick and hands on, with a practicum at a regional health care agency. Graduates are prepared to take a voluntary national certification exam.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:	_
	_

When:

With:____

Official Transcripts

Mid-State Technical College

Student Services Assistant

1001 Centerpoint Drive

Stevens Point, WI 54481

Criminal Background Statement of Understanding and Release of Information Form

Other:

mstc.edu 888.575.6782

> ADAMS CAMPUS 401 North Main Adams, WI 53910



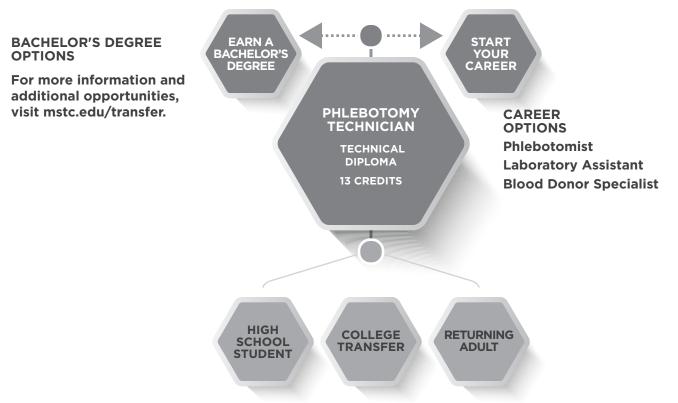
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Central Service Technician
- Health & Wellness Promotion
- Health Information
 Management
- Medical Assistant
- Medical Coder
- Nursing
- Nursing Assistant
- Pharmacy Services Management
- Pharmacy Technician
- Respiratory Therapy
- Surgical Technologist

PROGRAM OUTCOMES

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

- Adhere to infection control and safe practices.
- Perform specimen collection.
- Process specimens.
- Comply with legal regulations.
- Model professional behaviors.

TECHNICAL SKILLS ATTAINMENT

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. Students who successfully pass the Phlebotomy Clinical will meet the requirements of the TSA.

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.naacls.org

ADDITIONAL ENTRY CRITERIA

To apply to the Phlebotomy Technician program, please submit the following documents to Mid-State Admissions:

• Criminal Background Statement of Understanding and Release of Information form.

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

TECHNICAL STANDARDS

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 & Information Center 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 health work 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. Mid-State will make two attempts to place a student in an appropriate clinical experience. If Mid-State 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.

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 program's 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 associate dean of the School of Health.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

108381042 credits Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

SAMPLE FULL-TIME CURRICULUM OPTION

Term		13 credits
10501101	Medical Terminology	3
10501104	Culture of Healthcare	2
10513110	Basic Lab Skills	1
10513111	Phlebotomy	2
10513117	Phlebotomy Clinical	2
31509302	Human Body in Health and Disease	3
	Total	credits 13

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. For details, go to mstc.edu/classfinder.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109.....**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE PART-TIME CURRICULUM OPTION

Term 10501101 31509302	Medical Terminology Human Body in Health and Disease	6 credits 3 3
Term 10501104 10513110 10513111 10513117	Culture of Healthcare Basic Lab Skills Phlebotomy Phlebotomy Clinical	7 credits 2 1 2 2 2 2
	Total	credits 13

Basic Lab Skills

10513110.....**1 credit** Explores laboratory science career options and the fundamental principles and procedures performed in the laboratory. You will utilize medical terminology and basic laboratory equipment. You will follow required safety and infection control procedures and perform simple laboratory tests.

Culture of Healthcare

10501104.....**2 credits** An introduction to the culture of healthcare for students interested in working in various healthcare settings. Learners examine professionalism, interpersonal and written communication skills, problem-solving skills and patient privacy and confidentiality issues as they relate to healthcare.

Human Body in Health and Disease

31509302.....**3 credits** 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.

Medical Terminology

10501101......3 credits Focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Learners practice formation, analysis, and reconstruction of terms. Emphasizes spelling, definition, and pronunciation. Introduces operative, diagnostic, therapeutic, and symptomatic terminology of all body systems as well as systemic and surgical terminology.

Phlebotomy

105131112 credits Provides opportunities for learners to perform routine venipuncture, routine capillary puncture and special collection procedures.

Phlebotomy Clinical

10513117.....**2 credits** 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. *Corequisite: Phlebotomy 10513111 and Basic Lab Skills 10513111 with a* grade of "C" or better.



project management

Technical Diploma Program Code: 30-196-7 Total Credits: 24

Mid-State's Project Management program prepares students to successfully lead a project toward completion. Graduates are prepared to lead both teams and individuals toward a common goal and effectively use problem solving, budgeting, technology and math skills, and effective communication. Through hands-on projects, you will learn how to manage and develop teams while practicing problem-solving analysis to effectively lead teams toward goal or project completion.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)	
Form(s):	

□ Follow-Up Appointment:

Where:	
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481

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Other:_____
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ADAMS CAMPUS 401 North Main Adams, WI 53910



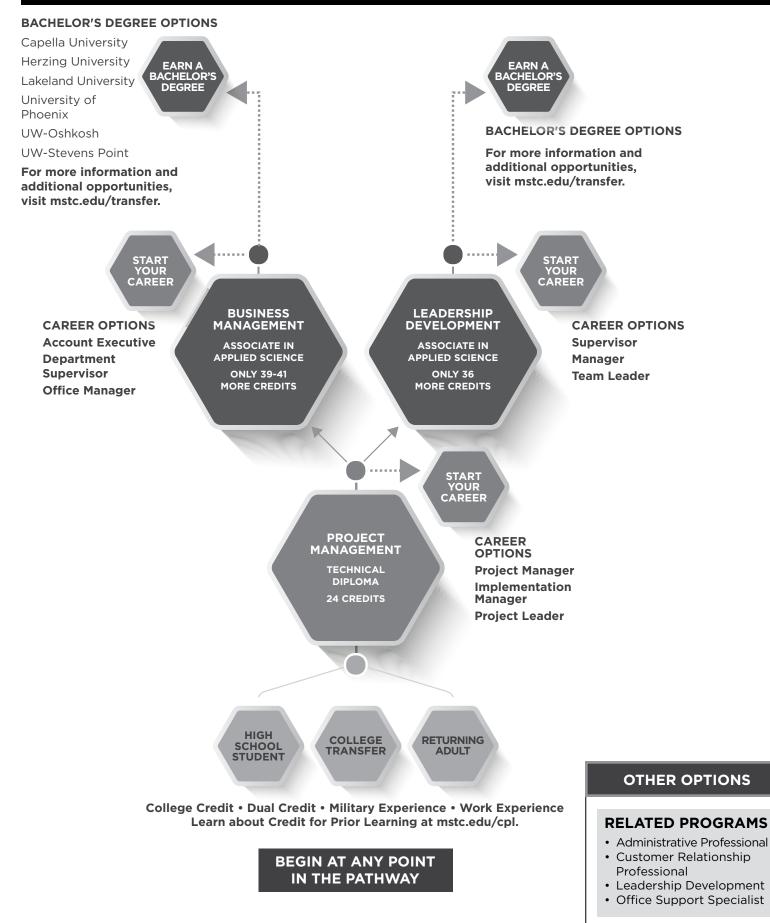
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



PROGRAM OUTCOMES

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

- Organize resources to achieve the goals of the organization.
- Direct individuals and/or processes to meet organizational goals.

TECHNICAL SKILLS ATTAINMENT

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. Students will fulfill the TSA requirement in the Project Management course by completing a comprehensive business plan.

NOTES:

STUDENT HANDBOOI

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term		12 credits
10102121	Finance and Budgeting	3
10103106	Microsoft Office-Introduction	3
10196189	Team Building & Problem Solving	3
10801136	English Composition 1	3
Term		12 credits
10196188	Project Management	3
10196192	Managing for Quality	3
10801198	Speech	3
10804107	College Mathematics	3
	Tota	l credits 24

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. For details, go to **mstc.edu/classfinder**.

NOTES:

SAMPLE PART-TIME CURRICULUM OPTION

Term 10102121 10103106 10804107	Finance and Budgeting Microsoft Office-Introduction College Mathematics	9 credits 3 3 3
Term 10196188 10196192 10801136	Project Management Managing for Quality English Composition 1	9 credits 3 3 3
Term 10196189 10801198	Team Building & Problem Solving Speech	6 credits 3 3
	Total	credits 24

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Finance and Budgeting

10102121.....**3 credits** For the nonfinancial manager, this course introduces the language of accounting, finance, and budgeting. Provides an overview of the use and analysis of financial statements. Business planning and the foundations and development of budgets are explored. Business financing basics and the securing of necessary financing for a business are covered. Practical application of financial statement creation and analysis, budgetary activities, and finance calculations are included.

Managing for Quality

10196192.....3 credits 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 systemsfocused approach, use quality models and tools, manage a quality improvement project, and measure effectiveness of continuous improvement activities.

Microsoft Office-Introduction

10103106.....**3 credits** Develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, PowerPoint, and Outlook) while reinforcing the students' knowledge of computer concepts, Windows Explorer, and web usage. Students should possess basic keyboarding, mouse and Windows 10 skills. Students may develop these skills in the LiNK while concurrently enrolled in this course.

Project Management

10196188......3 credits Applies skills and tools necessary to design, implement, and evaluate formal projects. Each learner writes a project proposal, works with project teams, sequences project tasks, develops project budgets, identifies project resources, implements the project, charts project progress, deals with variations, evaluates the project, and uses various technology in these processes.

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Team Building & Problem Solving

10196189**3 credits** Applies 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, uses a systematic problem-solving process, and employs consensus-building and conflictmanagement strategies.



renewable energy technician

Associate in Applied Science (AAS) Program Code: 10-482-3 Total Credits: 60

The only program of its kind in the Wisconsin Technical College System, Mid-State's Renewable Energy Technician program prepares students to design an integrated portfolio of renewable and traditional energy-producing systems. Graduates develop a working knowledge of "green" building concepts and energy-efficient design principles as well as the foundation needed for an entry-level position in the heating, ventilation, and air conditioning (HVAC) fields. In this program you'll learn to perform site assessments and recommend appropriate renewable energy technologies, sell and market renewable energy technologies, and manage renewable energy installation projects. Mid-State's unique facilities, a variety of brands of equipment and software for training, experienced faculty, and off-campus design opportunities make this program one-of-a-kind.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s)
 Form(s):
- □ Follow-Up Appointment:

Where:	
When:	

With:

Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481
 Other:



ADAMS CAMPUS 401 North Main Adams, WI 53910



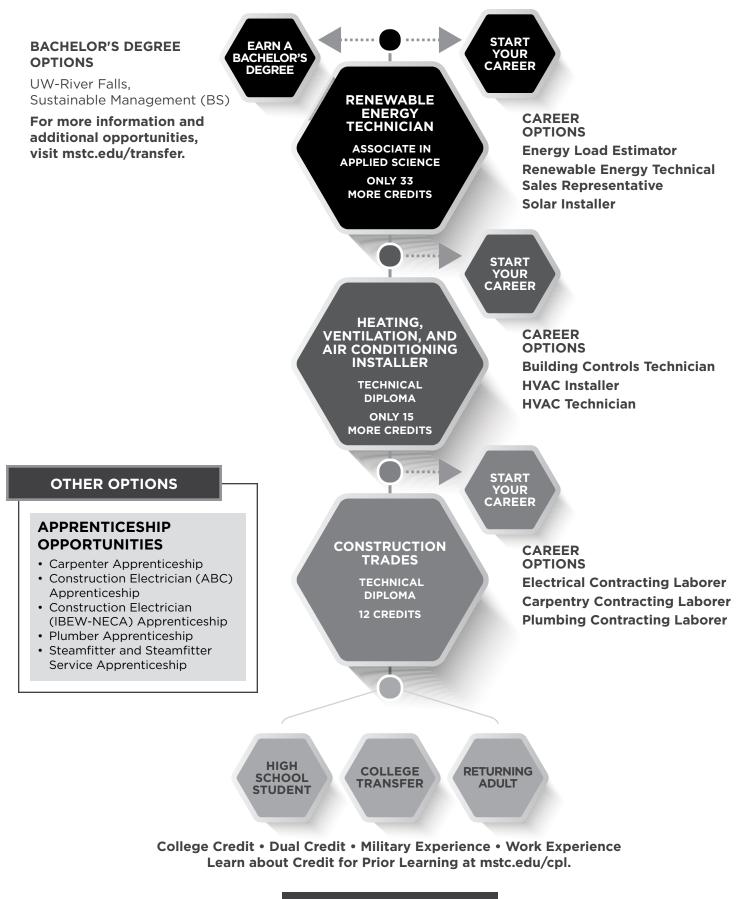
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



BEGIN AT ANY POINT IN THE PATHWAY

PROGRAM OUTCOMES

Employers will expect you, as a Renewable Energy Technician 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.

TECHNICAL SKILLS ATTAINMENT

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. Students will fulfill the TSA requirement in the Planning, Design, & Project Management 2 course.

NOTES:

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109.....**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term	16 cred	lits
10442117 10442118 10476170 10480101 10482107 10483121 10601110 10601130 10601140	Welding Fundamentals 1 -or- Welding Fundamentals 2 OSHA 30 for the Construction Trades Renewable Energy Overview Construction Fundamentals Piping Applications HVAC Heating Fundamentals Blueprint Reading for Construction Trades Electricity for the Construction Trades	1 2 2 3 2 2 2
Term	16 cred	lits
10482140 10483110	Planning, Design, & Project Management 1 Sustainable Heating System	3
10 40 711 5	Design & Installation	3
10483115 10483130	Energy Load Estimation and Modeling Electrical Controls & Systems for Buildings	3 3
10601120	HVAC Air Conditioning Fundamentals	3 2
10601121	Intro to HVAC Installation	2
Term	14 cred	
10481110 10482110	Building Science and Evaluation Photovoltaic System Design & Installation 1	2 3
10801136	English Composition 1	3
10801196	Oral/Interpersonal Communication -or-	7
10801198 10804107	Speech College Mathematics	3 3
	, and the second s	
Term	14 cred	lits
10482111 10482141	Photovoltaic System Design & Installation 2 Planning, Design, & Project Management 2	3 3
10482141	Intro to AutoCAD	1
10623114	Intro to Inventor	1
10809166 10809188	Intro to Ethics: Theory & Application Developmental Psychology -or-	3
10809198	Intro to Psychology	3
	Total credits	60

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. For details, go to **mstc.edu/classfinder**.

SAMPLE PART-TIME CURRICULUM OPTION

Term	7 cred	its
10442117 10442118 10476170 10480101 10601140	Welding Fundamentals 1 -or- Welding Fundamentals 2 OSHA 30 for the Construction Trades Renewable Energy Overview Electricity for the Construction Trades	1 2 2 2
Term	8 cred	its
10482140 10483110	Planning, Design, & Project Management 1 Sustainable Heating System	3
10601120	Design & Installation HVAC Air Conditioning Fundamentals	3 2
Term	7 crec	dit
10482107 10483121	Construction Fundamentals Piping Applications	2 3
10601110	HVAC Heating Fundamentals	2
Term 10483115	8 cred	its 3
10483130 10483130 10601121	Electrical Controls & Systems for Buildings Intro to HVAC Installation	3 2
Term	7 cred	-
10481110	Building Science and Evaluation	2
10601130 10804107	Blueprint Reading for Construction Trades College Mathematics	2 3
Term	7 cred	its
10482141 10623106	Planning, Design, & Project Management 2 Intro to AutoCAD	3 1
10809166	Intro to Ethics: Theory & Application	3
Term 10482110	9 cred Photovoltaic System Design & Installation 1	its 3
10801136 10801196	English Composition 1 Oral/Interpersonal Communication -or-	3
10801198	Speech	3
Term	7 cred	
10482111 10623114	Photovoltaic System Design & Installation 2 Intro to Inventor	3 1
10809188 10809198	Developmental Psychology -or- Intro to Psychology	3
	Total credits (50

Blueprint Reading for Construction Trades

10601130.....**2 credits** Develops the ability to read blueprints for commercial and non-commercial structures. Emphasizes blueprints drawn by licensed architects, covering plumbing, electrical wiring, structural framing, millwork, interior and exterior details, and basic information.

Building Science and Evaluation

10481110.....**2 credits** This course studies the interrelationship of a building, its occupants and the systems in the building. Topics include ventilation, moisture, renewable energy, sustainability, LEED design, and energy use in buildings. Students will learn the tools and techniques used in the analysis of building envelope integrity. Skills include blower door testing and how to use an infrared camera and other tools to detect insulation, air, and moisture problems in a building.

College Mathematics

108041073 credits 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 and 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 US and metric systems, applying Pythagorean Theorem, solving right and obligue triangles, calculating probabilities, organizing data and interpreting charts, calculating central and spread measures, and summarizing and analyzing data.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Construction Fundamentals

10482107.....2 credits Studies the concepts associated with the theory, materials, and methods used in construction, including 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. Students also become familiar with blueprint reading and examine all trades associated with construction, including, electrical, HVAC, and plumbing. Safe use of the appropriate tools for each trade is covered.

Developmental Psychology

10809188......3 credits Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Electrical Controls & Systems for Buildings

10483130.....3 credits Topics 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. *Corequisite: Electrical Circuits I 10605105 or Intro to Electronics 10605108 or Electricity for the Construction Trades 10601140*

Electricity for the Construction Trades

10601140.....**2 credits** This course is an introduction to electrical theory and application for those in the construction and building trades. Content includes AC and DC circuits, schematics, Ohms law, multimeter use and circuit troubleshooting. This course will also provide an introduction to the contents of the National Electric Code (NEC).

Energy Load Estimation and Modeling

10483115.....3 credits In this course students will develop the skills to do residential and light commercial energy load estimations. Students will calculate heating and cooling building loads and estimate energy consumption rates and quantities. The student will also estimate energy upgrades such as insulation, window improvements, etc. and calculating payback and fuel savings. The course covers a variety of computer programs available for analyzing buildings.

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

HVAC Air Conditioning Fundamentals

10601120.....**2 credits** Topics include air conditioning principles and terms, physical principles of air movement, air filtering and humidity, and methods of conditioning air for comfort and health. Also covers the proper use of psychrometers, dry bulb thermometers, hygrometers, and reading and interpretation of psychrometric charts and scales as well as ASHRAE and BPI ventilation standards for residential units. (HVAC is a common industry reference to heating, ventilation, and air conditioning.)

HVAC Heating Fundamentals

10601110.....**2 credits** Provides an introduction to how homes and buildings are heated. Topics include introduction to heat principles, temperature measurement, fuels and other sources of heat, combustion, basic heating systems, basic furnace design, boiler design and operation, venting of furnaces, chimney or exhaust gases, and system controls. (HVAC is a common industry reference to heating, ventilation, and air conditioning.)

Intro to AutoCAD

106231061 credit This introductory course in computer-aided drafting (CAD) using AutoCAD software 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.

Intro to Ethics: Theory & Application

10809166**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to HVAC Installation

10601121.....2 credits

Addresses residential and light commercial heating and cooling systems. Emphasizes the diversity of heating and cooling systems and how they operate. Students participate in the installation of a variety of HVAC systems and troubleshoot and service systems. (HVAC is a common industry reference to heating, ventilation, and air conditioning.)

Intro to Inventor

106231141 credit This course is an introduction to Inventor by AutoDesk. Students will learn how to create 3D models of basic objects, add dimensioning, and generate multiview projections. *Corequisite: Intro to AutoCAD 10623106*

Intro to Psychology

108091983 credits

This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

OSHA 30 for the Construction Trades

10476170.....**2 credits** The Occupational Safety and Health Administration (OSHA) 30 for the Construction Trades course teaches construction related workers about their rights, employer responsibilities and how to identify, abate, avoid and prevent job related hazards. Course outcomes align with the training outcomes recommended by OSHA. Upon successful completion, students will receive an OSHA 30 Card.

Photovoltaic System Design & Installation 1

10482110.....**3 credits** Students learn the details involved in the mechanical and electrical integration of a photovoltaic (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, and installation techniques. Involves students in the installation of a PV system.

Photovoltaic System Design & Installation 2

10482111.....**3 credits** This course is a continuation of Photovoltaic System Design and Installation 1 and will include an indepth 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 will also be covered.

Prerequisite: Photovoltaic System Design and Installation 1 10482110

Piping Applications

10483121.....3 credits Presents the fundamentals of plumbing and piping installation practices. Laboratory activities provide students with basic pipe joining processes associated with the plumbing and HVAC industries.

Planning, Design, & Project Management 1

10482140**3 credits** Students in this capstone course design an integrated portfolio of energy systems, incorporating renewable energy options into a conventional system. Each learner writes a project proposal, works with project teams, sequences project tasks, develops project budgets, and identifies project resources.

Planning, Design, & Project Management 2 104821413 credits

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 and energy production. *Prerequisite: Planning, Design, & Project Management 1* 10482140

Renewable Energy Overview

10480101.....**2 credits** Investigates 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.

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*

Sustainable Heating System Design & Installation

10483110.....**3 credits** Addresses solar thermal, geothermal, and biomass heating systems. Students participate in the installation and design of a solar hot water system. Topics include safety; system design and layout; component selection; mounting collectors; installing and insulating copper tubing; and installing a storage tank, heat exchanger, circulation pump, and other system components.

Welding Fundamentals 1

10442117**1 credit** An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of FCAW, GMAW, and OXY-Fuel cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.

Welding Fundamentals 2

10442118**1 credit** An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of GTAW, SMAW and Plasma cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.



respiratory therapy

Associate in Applied Science (AAS) Program Code: 10-515-1 Total Credits: 69

The Respiratory Therapy program at Mid-State prepares students to employ scientific principles to identify, treat, and prevent acute or chronic dysfunction of the cardiopulmonary system. Successful graduates work under medical direction in a variety of care settings. Students study airway management and life support, airway clearance therapies, pulmonary rehabilitation, medication administration, and the use of therapeutic medical gasses. The program combines classroom instruction and clinical experience with actual patients and equipment at local hospitals and agencies. Travel is required.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:

When:

With:____

Official Transcripts

Mid-State Technical College

Student Services Assistant

1001 Centerpoint Drive

Stevens Point, WI 54481

Criminal Background Statement of Understanding and Release of Information Form

Other:



ADAMS CAMPUS 401 North Main Adams, WI 53910



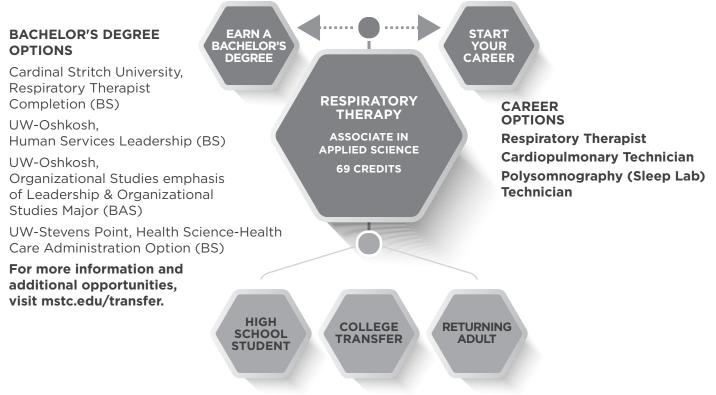
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Central Service Technician
- Health Information Management
- Health & Wellness Promotion
- Medical Assistant
- Medical Coder
- Nursing
- Nursing Assistant
- Pharmacy Services Management
- Pharmacy Technician
- Phlebotomy Technician
- Surgical Technologist

PROGRAM OUTCOMES

Employers will expect you, as a Respiratory Therapy 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.

TECHNICAL SKILLS ATTAINMENT

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. Students who successfully complete the NBRC exam at the end of the program will meet the TSA requirement.

Respiratory therapists in Wisconsin and many other states are licensed professionals. The Respiratory Therapy program is accredited by:

Commission on Accreditation for

Respiratory Care (CoARC) 264 Precision Boulevard, Telford, TN 37690 817.283.2835 • www.coarc.com

ENTRY CRITERIA

To apply to the Respiratory Therapy program, please submit the following documents to Mid-State Admissions:

- 1. Complete a Mid-State Application form and return it with a \$30 non-refundable application fee.
- Submit the Criminal Background Statement of Understanding and Release of Information form found at mstc.edu/apply-mid-state-today (available after completion of program application).
- 3. Submit the Technical Standards Form found at **mstc.edu/** programs/respiratory-therapy.
- 4. Meet with an advisor for your new student advising appointment.
- 5. Complete Accuplacer or ACT if requirements not met via High School Grade Point Average.

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

For placement on list to begin core Respiratory Therapy Program courses (515-level classes):

Meet math requirement via one of the following options:

- Math portion of Accuplacer with score of 79
- Math portion of Next Generation Accuplacer with score of 259
- Math ACT score of 18
- College Math or Introduction to Statistics with a final grade of "C" or better

Meet the Prerequisite for General Anatomy and Physiology via one of the following options:

- General Chemistry or General Biology with "C" or better
- Human Body in Health and Disease with "C" or better
- High School GPA of 3.0 or better
- High School GPA of 2.6 or better with "C" or better in 3 high school science classes

Verify completion of the above with assigned academic advisor.

TECHNICAL STANDARDS

A list of specific physical, emotional, and mental tasks needed to function as a respiratory therapist is available at **mstc.edu/programs/respiratory-therapy** Contact the Disability Services coordinator in the Student Services & Information Center 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 health work 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. Mid-State will make two attempts to place a student in an appropriate clinical experience. If Mid-State 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.

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.
- 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 of courses. Students may be required to apply for program re-entry in order to repeat courses within the program's instructional area.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

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The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

108311033 credits 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

NOTES:

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10501101 10515111 10515171 10801136 10806177	Medical Terminology Respiratory Survey Respiratory Therapeutics 1 English Composition 1 General Anatomy & Physiology	16 credits 3 3 3 3 4
Term 10515172 10515173 10515174 10806197 10809166	Respiratory Therapeutics 2 Respiratory Pharmacology Respiratory/Cardiac Physiology Microbiology Intro to Ethics: Theory & Application	16 credits 3 3 3 4 n 3
Term 10515175 10801196 10801198	Respiratory Clinical 1 Oral/Interpersonal Communication Speech	5 credits 2 -or- 3
Term 10515112 10515113 10515176 10515178 10515179 10809122 10809172 10809196	Respiratory Airway Management Respiratory Life Support Respiratory Disease Respiratory Clinical 2 Respiratory Clinical 3 Intro to American Government -or- Introduction to Diversity Studies -o r Intro to Sociology	17 credits 2 3 3 3 3 7 7- 3
Term 10515101 10515180 10515181 10515182 10515183 10809188 10809198	Respiratory Therapist Test Prep Respiratory Neo/Peds Care Respiratory/Cardio Diagnostics Respiratory Clinical 4 Respiratory Clinical 5 Developmental Psychology -or- Intro to Psychology	15 credits 1 2 3 3 3 3 3 Credits 69
	lotal	creatts 69

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. For details, go to mstc.edu/classfinder.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10501101 10801136	Medical Terminology English Composition 1	6 credits 3 3
Term 10806177 10809122 10809172	General Anatomy & Physiology Intro to American Government -or- Introduction to Diversity Studies -o l	7 credits 4 r- 3
10809196 Term 10806197 10809188 10809198	Intro to Sociology Microbiology Developmental Psychology -or- Intro to Psychology	7 credits 4 3
Term 10801196 10801198 10809166	Oral/Interpersonal Communication Speech Intro to Ethics: Theory & Application	3
Term 10515111 10515171	Respiratory Survey Respiratory Therapeutics 1	6 credits 3 3
Term 10515172 10515173 10515174	Respiratory Therapeutics 2 Respiratory Pharmacology Respiratory/Cardiac Physiology	9 credits 3 3 3
Term 10515175	Respiratory Clinical 1	2 credits 2
Term 10515112 10515113 10515176 10515178 10515179	Respiratory Airway Management Respiratory Life Support Respiratory Disease Respiratory Clinical 2 Respiratory Clinical 3	14 credits 2 3 3 3 3 3 3
Term 10515101 10515180 10515181 10515182 10515183	Respiratory Therapist Test Prep Respiratory Neo/Peds Care Respiratory/Cardio Diagnostics Respiratory Clinical 4 Respiratory Clinical 5 Total	12 credits 1 2 3 3 3 credits 69

Developmental Psychology

10809188.....3 credits Studies human development throughout the lifespan and 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

English Composition 1

10801136.....**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

General Anatomy & Physiology

10806177..... 4 credits 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: High School GPA of 3.0 or Accuplacer Reading Skills of 236 or ACT of 15, or General Chemistry 10806134 with a grade of "C" or better, or General Biology 10806114 with a grade of "C" or better, or Human Body in Health & Disease 10509102 with a "C" or better. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to American Government

10809122.....3 credits 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Ethics: Theory & Application

10809166**3 credits** 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Psychology

10809198.....**3 credits** This science of psychology course is a survey of multiple aspects of behavior and mental processes. It provides an overview of topics such as research methods, theoretical perspectives, learning, cognition, memory, motivation, emotions, personality, abnormal psychology, physiological factors, social influences, and development.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Intro to Sociology

10809196.....**3 credits** Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Introduction to Diversity Studies

10809172.....**3 credits** 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. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of* 236, Writing of 237 or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Medical Terminology

10501101......3 credits Focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Learners practice formation, analysis, and reconstruction of terms. Emphasizes spelling, definition, and pronunciation. Introduces operative, diagnostic, therapeutic, and symptomatic terminology of all body systems as well as systemic and surgical terminology.

Microbiology

10806197......4 credits 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 with a "C"* or better, or General Biology 10806114 with a "C" or better, or *Plant Biology 10806184 with a grade of "C" or better*

Oral/Interpersonal Communication

10801196.....**3 credits** Focuses on developing effective listening techniques and verbal and nonverbal communication skills through oral presentation, group activity, and other projects. The study of self, conflict, and cultural contexts will be explored, as well as their impact on communication.

Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, Writing of 237, or ACT of 15 Reading/16 Writing. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Respiratory Airway Management

105151122 credits Provides a comprehensive exploration of airway management concepts and skills. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care.

Prerequisite: Respiratory Clinical 1 10515175

Respiratory Clinical 1

10515175.....2 credits 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. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. This course includes the complete program competency list. At the completion of this clinical learners must demonstrate competence in a minimum of 5 (required and/or simulated) competencies. The instructor may identify specific competencies to be addressed during this clinical. Prerequisites: Respiratory Survey 10515111, Respiratory Therapeutics 1 10515171, Respiratory Therapeutics 2 10515172, Respiratory Pharmacology 10515173, Respiratory/Cardiac Physiology 10515174, and Microbiology 10806197

Respiratory Clinical 2

10515178......3 credits

Continued development of Respiratory Therapy clinical skills including respiratory therapeutics. Focuses on monitoring, analyzing and interpreting data to make appropriate modifications in patient care. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. This course includes the complete program competency list. At the completion of this clinical learners must demonstrate competence in a minimum of 12 (required and/or simulated) competencies (cumulative through all clinical courses). The instructor may identify specific competencies to be addressed during this clinical. *Prerequisite: Respiratory Clinical 1 10515175*

Respiratory Clinical 3

10515179.....**3 credits** Continued development of Respiratory Therapy clinical skills including respiratory therapeutics. Focuses on monitoring, analyzing and interpreting data to make appropriate modifications in patient care. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. This course includes the complete program competency list. At the completion of this clinical learners must demonstrate competence in a minimum of 19 (required and/or simulated) competencies (cumulative through all clinical courses). The instructor may identify specific competencies to be addressed during this clinical. *Corequisite: Respiratory Clinical 2 10515178*

Respiratory Clinical 4

10515182.....**3 credits** Continued development of Respiratory Therapy clinical skills including respiratory therapeutics. Focuses on monitoring, analyzing and interpreting data to make appropriate modifications in patient care. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. This course includes the complete program competency list. At the completion of this clinical learners must demonstrate competence in a minimum of 26 (required and/or simulated) competencies (cumulative through all clinical courses). The instructor may identify specific competencies to be addressed during this clinical. *Prerequisites: Respiratory Clinical 3 10515179 and Respiratory Life Support 10515113*

Respiratory Clinical 5

10515183.....**3 credits** Focuses on the completion of respiratory therapy competencies and transition to employment. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. This course includes the complete program competency list. At the completion of this clinical learners must demonstrate competence in all of the required and required/simulated) competencies. The instructor may identify specific competencies to be addressed during this clinical. *Corequisite: Respiratory Clinical 4 10515182*

Respiratory Disease

10515176.....**3 credits** Exploration of signs, symptoms, causes, progression, and treatment of diseases or disorders of the body that affect the respiratory cardiopulmonary system. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care.

Prerequisites: Respiratory Survey 10515111, General Anatomy & Physiology 10806177, and Microbiology 10806197

Respiratory Life Support

10515113.....3 credits Focuses on management of adult ventilatory support. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. *Prerequisites: Respiratory Therapeutics 2 10515172 and Respiratory Clinical 1 10515175; Corequisite: Respiratory Airway Management 10515112*

Respiratory Neo/Peds Care

105151802 credits 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, noninvasive and invasive therapeutic interventions. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. *Prerequisite: Respiratory Life Support 10515113 and Respiratory Clinical 3 10515179*

Respiratory Pharmacology

10515173.....**3 credits** 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. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care.

. Prerequisites: Respiratory Survey 10515111, Respiratory Therapeutics 1 10515171, and General Anatomy & Physiology 10806177

Respiratory Survey

10515111.....**3 credits** 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. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care.

Prerequisite: Admission to Respiratory Therapy 105151 program; Corequisites: Medical Terminology 10501101 and General Anatomy & Physiology 10806177

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. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care.

. Corequisites: Respiratory Survey 10515111, Medical Terminology 10501101, and General Anatomy & Physiology 10806177

Respiratory Therapeutics 2

10515172......3 credits

Introduces therapeutic procedures including arterial puncture, bronchial hygiene, lung expansion therapy, and pulmonary rehabilitation. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care.

Prerequisites: Respiratory Therapeutics 1 10515171, Respiratory Survey 10515111, and General Anatomy & Physiology 10806177

Respiratory Therapist Test Prep

10515101.....**1 credit** Explores strategies for preparing for respiratory therapist professional examinations including study skills, testpreparation skills, and test-taking skills. Includes a basic review of content related to the examinations. *Corequisite: Respiratory Clinical 4 10515182*

Respiratory/Cardiac Physiology

10515174.....**3 credits** Provides the student with an in-depth knowledge of the structure and function of the respiratory and circulatory systems necessary to function as a competent Respiratory Therapist. Emphasis is placed on promotion of evidencebased practice using established clinical practice guidelines and published research for its relevance to patient care.

Prerequisites: General Anatomy & Physiology 10806177, Respiratory Survey 10515111, and Respiratory Therapeutics 1 10515171

Respiratory/Cardio Diagnostics

10515181.....**3 credits** Advanced invasive and noninvasive diagnostic cardiopulmonary procedures including pulmonary function, hemodynamics and rescue medicine. Emphasis is placed on promotion of evidence-based practice using established clinical practice guidelines and published research for its relevance to patient care. *Prerequisite: Respiratory Clinical 3 10515179*

rerequisite: Respiratory Clinical 3 105

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*



sales specialist

Technical Diploma Program Code: 30-104-7 **Total Credits: 17**

The Sales Specialist program prepares students for success through a curriculum that provides fundamental knowledge of marketing and sales. Students develop communication skills, problem-solving abilities, and a professional polish, while learning how to sell goods and services using a consultative approach—abilities that are highly valued by organizations seeking to employ sales professionals. Mid-State's Sales Specialist program prepares individuals through hands-on sales practice and salesperson/client role-play activities. Includes a focus on digital sales communication in the social media realm, preparing you to communicate effectively with clients, prepare and deliver sales-related presentations, and recommend the most appropriate solutions for your client.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit mstc.edu/advising.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where:	
When:	

With:

Official Transcripts Mid-State Technical College Student Services Assistant 1001 Centerpoint Drive Stevens Point, WI 54481

Other:		



ADAMS CAMPUS 401 North Main Adams, WI 53910



MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449

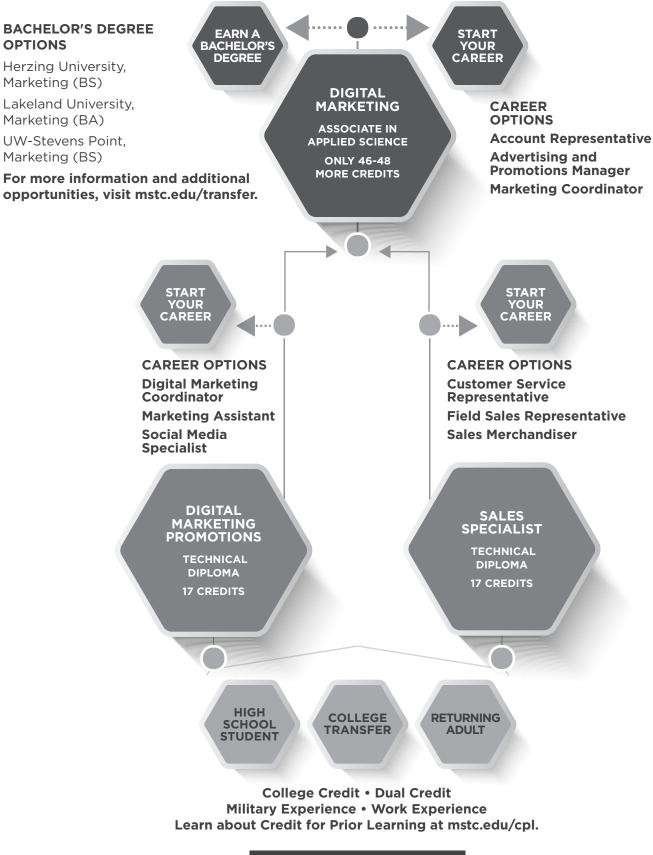


STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481

WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

career pathway



BEGIN AT ANY POINT IN THE PATHWAY

PROGRAM OUTCOMES

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

- Prepare selling strategies.
- Promote products, services, images, and/or ideas to achieve a desired outcome.

TECHNICAL SKILLS ATTAINMENT

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. Students will complete performance-based assessments in the Professional Selling course to fulfill the TSA requirement.

NOTES:

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term		17 credits
10104102	Marketing Principles	3
10104105	Professional Selling	3
10104107	Social Media Marketing	3
10104110	Marketing Communications	2
10801136	English Composition 1	3
10801198	Speech	3
		Total credits 17

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. For details, go to **mstc.edu/classfinder**.

NOTES:

SAMPLE PART-TIME CURRICULUM OPTION

Term 10104102 10801136 10801198	Marketing Principles English Composition 1 Speech	9 credits 3 3 3
Term 10104105 10104107 10104110	Professional Selling Social Media Marketing Marketing Communications	8 credits 3 3 2
		Total credits 17

English Composition 1

10801136**3 credits** 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: High School GPA of 3.0 or Accuplacer Writing of 262 or ACT of 20 or Intro to College Writing 10-831-103 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements. Proficiency in word processing skills recommended.

Marketing Communications

Marketing Principles

10104102.....**3 credits** This course serves as an introduction to the fundamental marketing concepts used to apply marketing strategies to product development, distribution, pricing, and promotion of goods and services.

Professional Selling

10104105.....**3 credits** 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.

Social Media Marketing

10104107.....**3 credits** Addresses how social media has transformed marketing communications from traditional mass media to individualized marketing. Using a variety of social media tools and platforms, this class explores the different methodologies for social media marketing. Topics include creating social media, integrating social media as part of a marketing campaign, the concept of viral marketing, measuring social media success through analytics, and how organizations and individuals have successfully applied this form of marketing.

Speech

10801198.....**3 credits** Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience 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. Bring transcripts for further evaluation if they do not meet these requirements. *Prerequisite: High School GPA of 3.0 or Accuplacer Reading of 253, Writing of 262, or ACT of 21 Reading/19 Writing, or completion of Intro to College Writing and/or Intro to College Reading with a "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.*



stainless steel welding

Technical Diploma Program Code: 30-442-7 Total Credits: 6

Mid-State's Stainless Steel Welding program prepares students for entry-level employment as a stainless steel welder in production, construction, manufacturing, and servicing industries. Experienced instructors will teach you basic TIG (tungsten inert gas) welding of stainless steel as well as fabrication, print reading, and more. Instruction will combine lecture with hands-on practice, giving you the confidence you need to start your career in this rewarding field.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s)
 Form(s):
- □ Follow-Up Appointment:

Where:	
When:	

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Other: _____
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ADAMS CAMPUS 401 North Main Adams, WI 53910



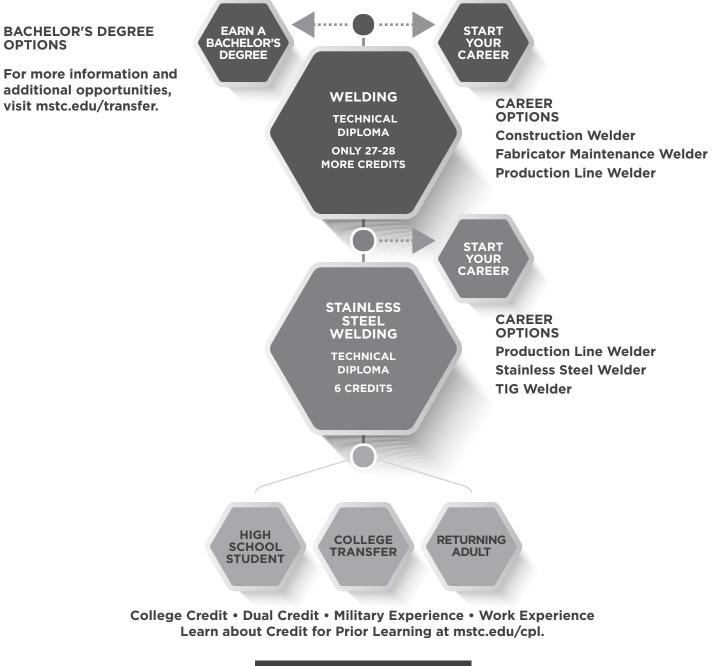
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



OTHER OPTIONS

RELATED PROGRAMS

- Industrial Mechanical Technician
- Machine Tool Technician
- Manufacturing Operations
 Management

APPRENTICESHIP OPPORTUNITIES

Ironworker Apprenticeship

BEGIN AT ANY POINT IN THE PATHWAY

PROGRAM OUTCOMES

Employers will expect you, as a Stainless Steel Welding graduate, to be able to:

- Demonstrate industry-recognized safety practices.
- Interpret welding drawings.
- Produce gas tungsten arc welds (GTAW).

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.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109.....**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term

10442101 Basic GTAW (TIG)10442102 Intermediate GTAW (TIG)10442103 Advanced GTAW (TIG)

Total credits 6

6 credits

2

2

2

Please Note:

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- Program completion time may vary based on student scheduling and course availability. For details, go to mstc.edu/classfinder.

course descriptions

Advanced GTAW (TIG)

10442103**2 credits** Students learn complete penetration stainless steel pipe welds in the 5G and 6G positions. *Corequisite: Intermediate GTAW (TIG) 10442102*

Basic GTAW (TIG)

10442101.....**2 credits** An introduction to the gas tungsten arc welding (GTAW) process commonly known as TIG, including the necessary safety and care of equipment and supplies. The student develops skills with the common production welding joints and materials.

Intermediate GTAW (TIG)

10442102**2 credits** 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 are practiced and evaluated. *Corequisite: Basic GTAW (TIG)* 10442101



surgical technologist

Technical Diploma Program Code: 31-512-1 Total Credits: 36-38

The Surgical Technologist program at Mid-State prepares graduates to work as part of the surgical team in operating rooms, providing instruments and supplies to the surgeon. Students learn skills and techniques used in central service with instrument processing. Training encompasses both classroom and lab instruction. You will gain clinical hands-on experience in surgery, ambulatory centers, central service, and other related areas. After successful completion of the program and certification exam, you will be a Certified Surgical Technologist (CST).

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

- □ FAFSA (www.fafsa.gov)
- Financial Aid Form(s) Form(s):
- □ Follow-Up Appointment:

Where:	
--------	--

When:

With:____

Official Transcripts

Mid-State Technical College

Student Services Assistant

1001 Centerpoint Drive

Stevens Point, WI 54481

Criminal Background Statement of Understanding and Release of Information Form

Other:



ADAMS CAMPUS 401 North Main Adams, WI 53910



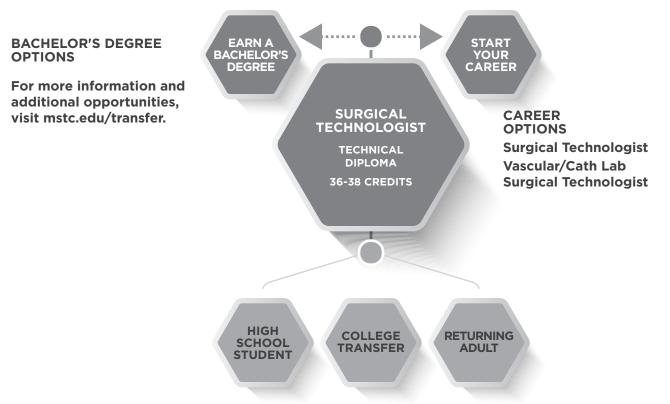
MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449



STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

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career pathway



College Credit • Dual Credit • Military Experience • Work Experience Learn about Credit for Prior Learning at mstc.edu/cpl.



OTHER OPTIONS

RELATED PROGRAMS

- Central Service Technician
- Health Information Management
- Health & Wellness Promotion
- Medical Assistant
- Medical Coder
- Nursing
- Nursing Assistant
- Pharmacy Services Management
- Pharmacy Technician
- Phlebotomy Technician
- Respiratory Therapy

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.

TECHNICAL SKILLS ATTAINMENT

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. Students who successfully complete the final evaluation in ST: Clinical 3 will meet the TSA requirement.

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

25400 US Highway 19 North, Suite 158, Clearwater, FL 33763 727.210.2350 • www.caahep.org

ENTRY CRITERIA

To apply to the Surgical Technologist program, please submit the following documents to Mid-State Admissions:

- 1. Complete a Mid-State Application form and return it with a \$30 non-refundable application fee.
- Submit the Criminal Background Statement of Understanding and Release of Information form found at mstc.edu/programs/surgical-technologist (available after completion of program application).
- 3. Submit the Technical Standards Form found at **mstc.edu/** programs/surgical-technologist.
- 4. Meet with an advisor for your New Student Advising Appointment.
- 5. Complete Accuplacer or ACT if requirements not met via high school grade point average.

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

For placement on list to begin core Surgical Technologist Program courses (515-level classes):

- Complete Medical Terminology with final grade of "C" or better.
- Complete General Anatomy & Physiology with a final grade of "C" or better.
- Verify completion of the above with assigned academic advisor.

TECHNICAL STANDARDS

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 & Information Center 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 health work 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. Mid-State will make two attempts to place a student in an appropriate clinical experience. If Mid-State 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.

PROGRAM PROGRESSION AND COMPLETION

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 program's instructional area.

STUDENT HANDBOOK

Visit **mstc.edu/studenthandbook** to view Mid-State's student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State's Student Code of Conduct, and technology.

GRADUATION REQUIREMENT

The GPS for Student Success course is required for all Mid-State program students and is recommended to be completed before obtaining 12 credits. (Not counted in the total credit value for this program.) Some students are exempt from this requirement. Please see your program advisor for more information.

GPS for Student Success

108901021 credit Integrate necessary skills for student success by developing an academic plan, identifying interpersonal attributes for success, adopting efficient and effective learning strategies, and utilizing Mid-State resources, policies, and processes. This course must be completed prior to obtaining 12 credits and as a graduation requirement.

ADDITIONAL COURSES AS NEEDED

The following courses may be recommended or required if the student does not achieve minimum Accuplacer scores.

Intro to College Reading

10838104**2 credits** Provides learners with the opportunities to develop and expand reading skills, including comprehension and vocabulary skills. Learners apply reading skills to academic tasks and read to acquire information from a variety of sources.

Intro to College Writing

10831103**3 credits** 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 Mid-State.

Prerequisite: Accuplacer Sentence Skills score of 60 or equivalent. Proficiency in word processing skills recommended.

Pre-Algebra

10834109**3 credits** 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, ABE Math Prep V 76854785 and ABE Math Prep VI 76854786 with a grade of "S." (Note: ABE Math Prep V and VI courses cannot be used to satisfy program completion requirements at Mid-State.)

SAMPLE FULL-TIME CURRICULUM OPTION

Term 10501101 10806177	Medical Terminology General Anatomy & Physiology	7 credits 3 4
Term 31512327 31512328 31512329 31512330 10806197	ST: Introduction to Surgical Techr ST: Fundamentals 1 ST: Fundamentals 2 ST: Clinical 1	15-17 credits hology 4 4 2 3 4
31806311	Applied Microbiology	2
Term 10501104 31512331 31512332 31512334	Culture of Healthcare ST: Surgical Procedures ST: Clinical 2 ST: Clinical 3	14 credits 2 4 4 4
	Total c	redits 36-38

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. For details, go to mstc.edu/classfinder.

SAMPLE PART-TIME CURRICULUM OPTION

Term 10501101 10806177	Medical Terminology General Anatomy & Physiology	7 credits 3 4
Term 10806197	-	-6 credits 4
31806311 10501104	Applied Microbiology Culture of Healthcare	2 2
Term 31512327 31512328 31512329 31512330	ST: Fundamentals 1	13 credits ogy 4 4 2 3
Term 31512331 31512332 31512334		12 credits 4 4 4
Total credits 36-38		

Applied Microbiology

31806311.....2 credits 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.

Culture of Healthcare

10501104.....2 credits An introduction to the culture of healthcare for students interested in working in various healthcare settings. Learners examine professionalism, interpersonal and written communication skills, problem-solving skills and patient privacy and confidentiality issues as they relate to healthcare.

General Anatomy & Physiology

10806177...... 4 credits 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: High School GPA of 3.0 or Accuplacer Reading Skills of

236 or ACT of 15, or General Chemistry 10806134 with a grade of "C' or better, or General Biology 10806114 with a grade of "C" or better, or Human Body in Health & Disease 10509102 with a "C" or better. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Medical Terminology

Focuses on the component parts of medical terms: prefixes. suffixes, and word roots. Learners practice formation, analysis, and reconstruction of terms. Emphasizes spelling, definition, and pronunciation. Introduces operative, diagnostic, therapeutic, and symptomatic terminology of all body systems as well as systemic and surgical terminology.

Microbiology

10806197..... 4 credits 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 with a "C" or better, or General Biology 10806114 with a "C" or better, or Plant Biology 10806184 with a grade of "C" or better

ST: Clinical 1

315123303 credits Applies 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

Prerequisites: Introduction to Surgical Technology 31512327, Fundamentals 1 31512328, and CPR certification

ST: Clinical 2

31512332...... 4 credits 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 and ST: Fundamentals 2 31512329; Corequisite: ST: Surgical Procedures 31512331

ST: Clinical 3

31512334 4 credits Enhances the student's technical experience and employee skills. Serves as a transition between student and employee. Applies 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

ST: Fundamentals 1

31512328 4 credits 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, and General Anatomy & Physiology 10806177

ST: Fundamentals 2

315123292 credits 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. Includes lecture and lab experiences. Prerequisites: ST: Introduction to Surgical Technology 31512327 and ST: Fundamentals 1 31512328

ST: Introduction to Surgical Technology

31512327...... 4 credits Provides the foundational knowledge of infection control and asepsis. Legal and ethical issues encountered in the healthcare environment are explored. Simulated laboratory practice enables the learner to develop beginning technical skills. Prerequisites: Admission to Surgical Technologist program 315121, Medical Terminology 10501101, and General Anatomy & Physiology 10806177

ST: Surgical Procedures

31512331 4 credits 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.

rotation case requirements are documented.



welding

Technical Diploma Program Code: 31-442-1 Total Credits: 33-34

The Welding program at Mid-State prepares graduates for a wide variety of welding jobs in production, maintenance, construction, manufacturing, and servicing industries. You will receive hands-on instruction and practice in 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 industry codes. Successful completion of this program prepares you to take welding certification tests.

Estimated tuition and fees: mstc.edu/programcosts

ACADEMIC ADVISOR

To schedule an appointment with an academic advisor, call 715.422.5300. Academic advisors will travel to other campuses as necessary to accommodate student needs. For more information about advising, visit **mstc.edu/advising**.

CHECKLIST:

This section will be completed when meeting with your academic advisor.

□ FAFSA (www.fafsa.gov)

Financial Aid Form(s)
Form(s):

□ Follow-Up Appointment:

Where:	
When:	

With:
 Official Transcripts
 Mid-State Technical College
 Student Services Assistant
 1001 Centerpoint Drive
 Stevens Point, WI 54481



ADAMS CAMPUS 401 North Main Adams, WI 53910



MARSHFIELD CAMPUS 2600 West 5th Street Marshfield, WI 54449

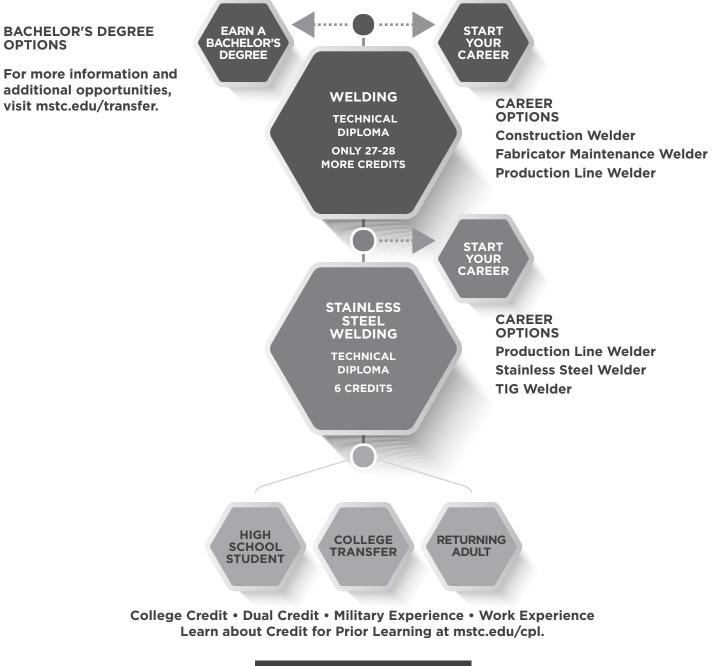


STEVENS POINT CAMPUS 1001 Centerpoint Drive Stevens Point, WI 54481 WISCONSIN RAPIDS CAMPUS 500 32nd Street North Wisconsin Rapids, WI 54494

Mid-State 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 • AAEO@mstc.edu. 3/2020

^{Other:_____}

career pathway



OTHER OPTIONS

RELATED PROGRAMS

- Industrial Mechanical Technician
- Machine Tool Technician
- Manufacturing Operations
 Management

APPRENTICESHIP OPPORTUNITIES

Ironworker Apprenticeship

BEGIN AT ANY POINT IN THE PATHWAY

PROGRAM OUTCOMES

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

- Demonstrate industry-recognized safety practices.
- Interpret welding drawings.
- Produce shielded metal arc welds (SMAW).
- Produce gas metal arc welds (GMAW).
- Produce flux core welds.
- Produce gas tungsten arc welds (GTAW).
- Perform cutting operations.

TECHNICAL SKILLS ATTAINMENT

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. Students are notified of TSA reporting in their final few courses of the program.

PROTECTIVE CLOTHING

Students are required to provide their own protective clothing and equipment including welding gloves, jacket, and helmet. Details of the requirements and where they may be purchased are provided by the program instructor at the beginning of each semester.

NOTES:

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SAMPLE FULL-TIME CURRICULUM OPTION

Term	1	7-18 credits
10442117	Welding Fundamentals 1	1
10442118	Welding Fundamentals 2	1
10442101	Basic GTAW (TIG)	2
10442110	Gas Metal Arc Welding (GMAW)	3
10442112	Welding Print Reading	2
10442130	Shielded Metal Arc Welding (SMA	
10442132	Metal Cutting Welding	2
10462107	Industrial Safety	2
10804107	College Mathematics	3
	-or-	
32420320	Math for Manufacturing	2
_		
Term		16 credits
10442102	Intermediate GTAW (TIG)	2
10442103	Advanced GTAW (TIG) -or-	
10442115	Welding Fabrication Techniques	2
10442111	Intermediate GMAW/FCAW	3
10442159	Welding Metallurgy	2
10442163	Weld Inspections and Testing	1
10457119	Fabrication Fundamentals 1	1
10457120	Fabrication Fundamentals 2	1
10462132	Machine Shop Fundamentals	3
10623106	Intro to AutoCAD	1
Total credits 33-34		

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SAMPLE PART-TIME CURRICULUM OPTION

Term 10442117 10442118 10442101 10442110 10462107	Welding Fundamentals 1 Welding Fundamentals 2 Basic GTAW (TIG) Gas Metal Arc Welding (GMAW) Industrial Safety	9 credits 1 2 3 2	
Term 10442111 10442112 10442130 10442132	Intermediate GMAW/FCAW Welding Print Reading Shielded Metal Arc Welding (SMAW) Metal Cutting Welding	9 credits 3 2 2 2 2	
Term 10442102 10442159 10442163 10804107 32420320	7- Intermediate GTAW (TIG) Welding Metallurgy Weld Inspections and Testing College Mathematics -or- Math for Manufacturing	8 credits 2 2 1 3	
Term 10442103 10442115 10457119 10457120 10462132 10623106	Advanced GTAW (TIG) -or- Welding Fabrication Techniques Fabrication Fundamentals 1 Fabrication Fundamentals 2 Machine Shop Fundamentals Intro to AutoCAD	8 credits 2 1 3 1	
Total credits 33-34			

Advanced GTAW (TIG)

104421032 credits Students learn complete penetration stainless steel pipe welds in the 5G and 6G positions. *Corequisite: Intermediate GTAW (TIG) 10442102*

Basic GTAW (TIG)

10442101.....2 credits

An introduction to the gas tungsten arc welding (GTAW) process commonly known as TIG, including the necessary safety and care of equipment and supplies. The student develops skills with the common production welding joints and materials.

College Mathematics

108041073 credits 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 and 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 US 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.

Prerequisite: High School GPA of 3.0 or Accuplacer Arithmetic of 250 and QAS 234 or ACT of 17 or Pre-Algebra 834109 with a grade of "C" or better or equivalent. Students are encouraged to bring transcripts for further evaluation if they do not meet these requirements.

Fabrication Fundamentals 1

10457119.....**1 credit** An introduction to structural shapes and sheet metal fabrication. Presents fabrication techniques, metal selection, and layout, cutting, bending, drilling, threading, and joining using manual equipment and techniques. Information is presented to the student and followed up with lab activities to provide a hands-on experience. Emphasizes developing an understanding of the tools, techniques, safe work habits, and application of sheet metal fabrication skills.

Fabrication Fundamentals 2

10457120.....1 credit An introduction to plate steel and heavy fabrication. Presents fabrication techniques using heavy fabrication equipment. CNC Cutting, Plate and Tube bending, Sawing and Shearing equipment will be presented and followed up with lab activities to provide a hands-on experience. Emphasizes developing an understanding of the equipment, techniques, safe work habits, and application of heavy metal fabrication skills.

Gas Metal Arc Welding (GMAW)

10442110.....**3 credits** 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.

Industrial Safety

104621072 credits 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. Focuses 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.

Intermediate GMAW/FCAW

10442111.....**3 credits** Builds skills with the GMAW process and performing welds on stainless steel and aluminum sheet metal and plate. Students are able to differentiate and select proper electrodes and shielding gases, and properly adjust parameters. Emphasizes 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. Students are able to weld in several positions, read some basic weld symbols, and have a basic understanding of written welding procedures. *Prerequisite: Gas Metal Arc Welding (GMAW) 10442110*

Intermediate GTAW (TIG)

104421022 credits 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 are practiced and evaluated. *Corequisite: Basic GTAW (TIG) 10442101*

Intro to AutoCAD

106231061 credit Learners will develop practical approaches to constructing basic 2D drawings in AutoCAD software by drawing, modifying, and assigning appropriate layer properties. Learners will also analyze length and area of shapes drawn in AutoCAD, summarize details through dimensions and annotations added to the drawings, and format the drawings for printing. Prior experience with computers is recommended.

Machine Shop Fundamentals

10462132.....**3 credits** Students participating in this class will be introduced to common machine tools and their functions. Classroom activities and hands-on lab exercises will be used to introduce participants to some of the most common applications in machining. Lab activities will introduce students to shop safety and identification of machine tools. Students will also gain understanding of the basic processes performed with different machine tools and basic machine set up and operations.

Math for Manufacturing

324203202 credits Studies Welding and Fabrication problems involving calculations with fractions, decimals, percentages, measurements and conversions. Includes work with the metric system, measurement conversion, shapes, formulas for circumference area and volume and use of a scientific calculator. Formulas with application to bending metal are also studied.

Prerequisite: Admission into Machine Tool Technician program 324201, Welding program 314421, Gas Tungsten Arc Welding (Stainless Steel) 304427, or consent of instructor

Metal Cutting Welding

10442132.....2 credits 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.

Shielded Metal Arc Welding (SMAW)

104421302 credits Begins to build the knowledge and skills of the SMAW process commonly known as stick welding. Students are able to weld in several positions, read some basic weld symbols, and have a basic understanding of written welding procedures.

Weld Inspections and Testing

10442163.....1 credit 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.

Welding Fabrication Techniques

104421152 credits 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

Welding Fundamentals 1

10442117**1 credit** An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of FCAW, GMAW, and OXY-Fuel cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.

Welding Fundamentals 2

10442118**1 credit** An introduction to fundamental welding techniques with an emphasis on safe work habits that covers the processes of GTAW, SMAW and Plasma cutting. Classroom instruction pared with lab activities are designed to provide fundamental skills in each of the welding processes covered in the class.

Welding Metallurgy

10442159.....2 credits Investigates the effects of welding on the mechanical properties of metals. Learners explore hardness, strength, and weldability of various metals. Concepts are applied in various activities including heat treating, hardness testing, and tensile testing.

Welding Print Reading

10442112**2 credits** Students study print format, line types, orthographic views, dimensioning, welding symbols, and bill of materials. Students apply concepts by creating and fabricating from prints in individual and group activities.