

UNIVERSITY TRANSFER- ASSOCIATE OF SCIENCE

Associate of Science (AS)

Program Code: 20-800-2

Total Credits: 61

Students in the University Transfer-Associate of Science 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.

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.

To learn more about this program, visit mstc.edu/programs.

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.

NEW STUDENT CHECKLIST

Complete the following steps to prepare for your New Student Advising appointment with your academic advisor:

- Submit a Mid-State application at mstc.edu/apply.
- Send official transcripts to:
Mid-State Technical College
Student Services
500 32nd Street North
Wisconsin Rapids, WI 54494
- Complete the Free Application for Federal Student Aid (FAFSA) at fafsa.gov. Mid-State's Financial Aid team is available to assist with your FAFSA application and to answer your financial aid questions. Contact Financial Aid or schedule an appointment at mstc.edu/financial-aid.
- Set up student MyCampus account at mstc.edu/mycampus-assistance.
- Schedule a New Student Advising appointment at mstc.edu/advising.

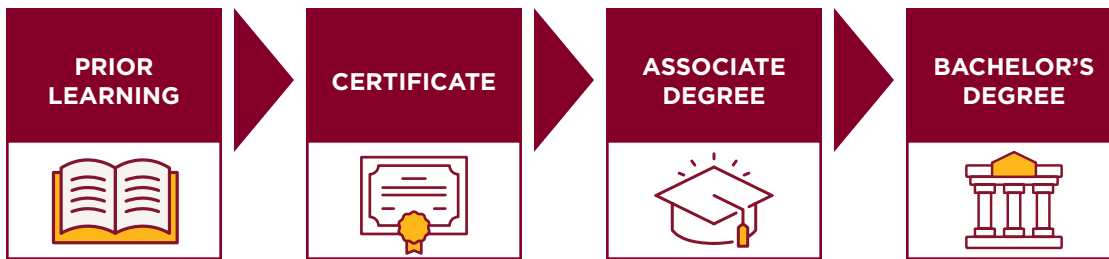
mstc.edu • 888-575-6782 • TTY: 711



Adams Campus • Marshfield Campus • Stevens Point Downtown Campus • Wisconsin Rapids Campus • Virtual Campus • AMETA® Center

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. 3/2026-AC

CAREER PATHWAY



Career pathways help you build your education step by step. Each stage offers one or more credentials that are recognized by employers and lead to real jobs—and you can keep building toward your career goals as you go.

Begin at any point.

Prior Learning

Credit for Prior Learning

- Certifications and Licenses
- Military Experience
- National/Standardized Exams
- Transfer Credit
- Work and Life Experience

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

High School Credit

- High School Dual Credit
- Mid-State Fast Track

Learn about High School Credit at mstc.edu/dc.

Certificate

- Communication Essentials (9 Credits)
- University Transfer (12 Credits)

Associate Degree

- University Transfer-Associate of Science (61 Credits)

Bachelor's Degree

For those interested in continuing their education, Mid-State offers transfer guides with various four-year colleges and universities. For more information, visit mstc.edu/transfer.

Other Options

Related Programs: University Transfer-Associate of Arts

OUTCOMES

Employers will expect you, as a University Transfer-Associate of Science graduate, to possess the following skills:

- **Communication:** Demonstrate effective communication in diverse contexts using appropriate methods.
- **Intellectual Acquisition of Knowledge:** Demonstrate critical and ethical reasoning.
- **Personal and Social Awareness:** Demonstrate knowledge of life skills required of an effective member of a diverse and global community with increased responsibility for self-directed learning and personal wellness.
- **Problem Solving:** Use mathematical and scientific problem-solving processes.
- **Environmental Awareness:** Demonstrate a heightened awareness of our physical, chemical, and biological environment.

TECHNICAL SKILLS ATTAINMENT

The Wisconsin Technical College System (WTCS) has implemented a requirement that all technical colleges measure 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. Faculty will let students know when and how the TSA is being assessed in 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. Some students are exempt from this requirement. Please see your academic advisor for more information.

ADDITIONAL COURSES AS NEEDED

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

College Reading and Writing 1

10831104

3 credits

Provides learners with opportunities to develop and expand reading and writing skills to prepare for college-level academic work. Students will employ critical reading strategies to improve comprehension, analysis, and retention of texts. Students will apply the writing process to produce well-developed, coherent, and unified written work.

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

GPS for Student Success (1 credit required)

Humanities & Fine Arts and Social & Behavioral Sciences (21 credits required)

- **Communication (9 credits required)**
Must include: six credits of English, three credits of Speech.
- **Humanities & Fine Arts (6 credits required)**
Must include courses in at least two disciplines: art, history, journalism/writing, literature, music, philosophy, theatre/film, world language, and political science.
- **Social & Behavioral Sciences (6 credits required)**
Must include courses in at least two disciplines: anthropology, economics, geography, political science, psychology, sociology.

Quantitative Reasoning & Natural Sciences (18 credits required)

- **Quantitative Reasoning (3 credits required)**
- **Natural Sciences with Lab (6 credits required)**
Two lab courses required, one from each science discipline.

Global Studies & Languages (1 course required)

May be met with one year of high school foreign language with a grade of "C" or better.

Health/Wellness/Physical Education (1 credit required)

Diversity & Ethnic Studies (1 course required)

Electives (Additional credits to attain 61 total credits)

Select any college transfer courses beyond the minimum requirements. One credit of health and PE beyond the required credit may be selected.

MULTIPLE MEASURES

Students can place into courses using high school GPA and completed classes. Placement can be determined in the following ways:

- **Multiple Measures Writing (MMW)**
High school GPA of 2.6 & successful completion of 2.0 credits of high school writing courses with a "C" or better
- **Multiple Measures Reading (MMR)**
High school GPA of 2.6 & successful completion of 2.0 credits of high school literature courses with a "C" or better
- **Multiple Measures Math 1 (MMM_1)**
High school GPA of 2.6 & successful completion of 1.0 credit of high school math (Algebra 1 or equivalent) with a "C" or better
- **Multiple Measures Math 2 (MMM_2)**
High school GPA of 2.6 & successful completion of 2.0 credits of high school math including Algebra 1 and Algebra 2 with a "C" or better
- **Multiple Measures Science 1 (MMS_1)**
High school GPA of 2.6 & successful completion of 1.0 credit of high school lab science course with a "C" or better
- **Multiple Measures Science 2 (MMS_2)**
High school GPA of 2.6 & successful completion of 1.0 credit of high school chemistry with a "C" or better

Past high school and college transcripts are used in making course placement decisions.

ALL COURSES FOR UNIVERSITY TRANSFER-ASSOCIATE OF SCIENCE

GPS for Student Success (1 credit required)

Course Number	Course Name	CPL	Credits
10890102	GPS for Student Success	Yes	1

Communication • English (6 credits required)

Course Number	Course Name	CPL	Credits
10801136	English Composition 1	Yes	3
20801223	English 2	Yes	3

Communication • Speech (3 credits required)

Course Number	Course Name	CPL	Credits
10801196	Oral/Interpersonal Communication	Yes	3
10801198	Speech	Yes	3

Students cannot take Oral/Interpersonal to fulfill their required Speech credit. It may be used as an elective.

Humanities & Fine Arts (6 credits required)

Course Number	Course Name	CPL	Credits
10809103	Think Critically & Creatively	Yes	3
10809166	Introduction to Ethics: Theory & Application	Yes	3
20801227	Creative Writing	Yes	3
20801233	Children's Literature	Yes	3
20801247	Contemporary World Literature	Yes	3
20801204	Introduction to Literature	Yes	3
20803211	US History to 1877	Yes	3
20803212	US History 1877 to Present	No	3
20803258	World History to 1500	No	3
20805201	Music Appreciation	Yes	3
20809223	Introduction to World Religions	Yes	3
20809226	Environmental Ethics	No	3
20809260	Introduction to Philosophy	Yes	3

Please Note

- Credit for Prior Learning (CPL) options are available for some courses. You can visit mstc.edu/cpl or contact your academic advisor for details.
- 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/schedule.
- Get the latest updates online at mstc.edu.

Social & Behavioral Science (6 credits required)

Course Number	Course Name	CPL	Credits
10140101	Global Cultural Experience	No	1
10809122	Introduction to American Government	Yes	3
10809172	Introduction to Diversity Studies	Yes	3
10809188	Developmental Psychology	Yes	3
10809195	Economics	Yes	3
10809196	Introduction to Sociology	Yes	3
10809198	Introduction to Psychology	Yes	3
10809217	Race, Class, Gender	No	3
10809283	Cultural Anthropology & Human Diversity	No	3
20809237	Abnormal Psychology	Yes	3
20809254	Educational Psychology	Yes	3
20809204	Marriage and Family	Yes	3
20809287	Principles of Macroeconomics	Yes	3
20809291	Principles of Microeconomics	Yes	3

Quantitative Reasoning (3 credits required)

Course Number	Course Name	CPL	Credits
10804118	Intermediate Algebra with Applications	Yes	4
10804135	Quantitative Reasoning	Yes	3
10804189	Introductory Statistics	Yes	3
10804190	Calculus and Analytic Geometry 1	Yes	5
10804195	College Algebra with Applications	Yes	3
10804196	Trigonometry with Applications	Yes	3
20804227	Elementary Math Education 1	No	4
20804237	Elementary Math Education 2	No	4

Natural Sciences with Lab (6 credits required)

Course Number	Course Name	CPL	Credits
10806112	Principles of Sustainability	Yes	3
10806114	General Biology	No	4
10806134	General Chemistry	Yes	4
10806143	College Physics 1	No	3
10806154	General Physics 1	Yes	4
10806177	General Anatomy & Physiology	Yes	4
10806179	Advanced Anatomy & Physiology	No	4
10806186	Intro to Biochemistry	No	4
10806189	Basic Anatomy	No	3
10806197	Microbiology	Yes	4
10806198	Human Biology	No	4
20806215	Environmental Science	No	3

Courses that have labs: 10806114, 10806134, 10806143, 10806154, 10806177, 10806179, 10806197, and 10806186

Global Studies & Languages (1 course required)

Course Number	Course Name	CPL	Credits
10140101	Global Cultural Experience	No	1
10809283	Cultural Anthropology and Human Diversity	No	3
20802211	Spanish 1	No	4
20802212	Spanish 2	No	4
20809223	Introduction to World Religions	Yes	3

Health/Wellness/PE (1 credit required)

Course Number	Course Name	CPL	Credits
10807205	The Well Traveler	Yes	1
10807210	Environmental Wellness	No	1
20807202	Nutrition for Life	Yes	1
20807203	Stress Management Fitness for Life	Yes	1
20807204	Physical Fitness for Life	Yes	1

Diversity & Ethnic Studies (1 course required)

Course Number	Course Name	CPL	Credits
10140101	Global Cultural Experience	No	1
10809172	Introduction to Diversity Studies	Yes	3
10809217	Race, Class, Gender	No	3
10809283	Cultural Anthropology and Human Diversity	No	3

Electives (Additional credits to attain 61 total credits)

- Select other courses to fill in available credits.
- One additional credit of Health/Wellness/PE may be selected.
- If students satisfy the world language requirement by successfully completing a full year of high school world language with a “C” or better, then they may need elective credits to satisfy the program credit requirement.

Abnormal Psychology

20809237

3 credits

The course addresses the foundations of abnormal psychology and psychological disorders, including their characteristics, possible causes, assessments, diagnostic processes, and treatments. The course includes examination of major historical and theoretical perspectives, research, sociocultural considerations, and elements of psychological wellness.

Prerequisite: Introduction to Psychology 10809198 with a grade of "C" or better

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

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.

Prerequisite: High School GPA of 2.6 and MMM_1 or MMS_1 or Accuplacer QAS 246 or Accuplacer Reading Skills of 249 or ACT Math 19 or ACT Reading score of 15

Calculus & Analytic Geometry 1

10804190

5 credits

Designed for students of mathematics, science, and engineering. An introduction to the basic properties of limits, rate of change of functions, continuity, derivatives of algebraic and elementary transcendental functions, their products quotients and compositions, curve sketching, finding maxima and minima, and indefinite and definite integration with applications.

Prerequisites: College Algebra with Applications 10804195 and Trigonometry with Applications 10804196 with a "C" or better

Children's Literature

20801233

3 credits

Introduces the forms, functions, and merits of literature for children. Students will read and evaluate both classic and contemporary texts for a variety of age levels. Readings, lecture, class discussion, and projects will also explore historical and cultural contexts for, and influences upon, children's literature. Special consideration will be given to diverse and multicultural works. Art and illustration will also be explored as storytelling tools.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading score of 253 and Writing of 262 or ACT English 16 or ACT Reading score of 20 or completion of College Reading and Writing 1 10831104 with a "C" or better

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, combinatorics, and the binomial theorem.

Prerequisite: ACT Math score of 22 or Trigonometry with Applications 10804196 or Intermediate Algebra with Applications 10804118 with a "C" or better

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

Contemporary World Literature

20801247

3 credits

Contemporary World Literature presents a post-World War II overview of diverse and multicultural literature. Through readings in long and short fiction and poetry, students explore the way different cultures and writers see their internal and external worlds in relation to their sense of self. The primary focus will be on diverse and multicultural text analysis, seeking and challenging evidence of universal themes and human experience.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading score of 253 and Writing of 262 or ACT English 16 or ACT Reading score of 20 or completion of College Reading and Writing 1 10831104 with a "C" or better

Creative Writing

20801227

3 credits

Introduces and encourages the creative writing process as an avenue for individual expression. Students will read and respond to works of creative writing in various genres to determine their principles as well as how and why writers break formal conventions. Students will experiment with techniques for producing original work in both poetry and prose. Emphasis is on idea generation, collaborative feedback, and effective revision. This is a workshop-based course.

Prerequisites: MMR; MMW; Accuplacer Reading 253; Accuplacer Writing 262; ACT Reading 21; ACT English 19

Cultural Anthropology and Human Diversity

10809283

3 credits

This course explores the range of human cultural diversity around the world and seeks explanations of both commonalities and differences. The class will focus on anthropological theoretical perspectives, historical ties indicating patterns of population migrations, and the myriad complexities of modern industrialized multicultural societies, like the United States, as influenced by the global economy and technology.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English

**this course does satisfy the Diversity Ethnic Studies requirement and/or Social and Behavioral Sciences requirement*

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 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English

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 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English

Educational Psychology

20809254

3 credits

Explores the psychological theories of development and learning related to education and teaching. Course covers the unique diversity of students that we teach as well as exceptionalities. Students examine learning theory and instructional practice as well as issues of motivation and classroom management. Classroom planning and assessment methods and techniques are evaluated.

Prerequisite: Introduction to Psychology 10809198 or Developmental Psychology 10809188 with a "C" or better

Elementary Math Education 1

20804227

4 credits

Covers mathematics content necessary for prospective early childhood and elementary teachers. Topics include foundational and historical concepts from arithmetic and algebra.

Prerequisite: High school GPA 2.6 and MMM_2 or Accuplacer Arithmetic of 263 and QAS 234 or ACT Math score of 19 or QAS of 245 or Intermediate Algebra with Applications 10804118 with a "C" or better

Elementary Math Education 2

20804237

4 credits

Includes concepts of proportionality, statistics and probability, plane geometry, the geometry of solids, and measurement.

Prerequisite: Elementary Math Education 1 20804227; High school GPA 2.6 and MMM_2 or Accuplacer Arithmetic of 263 and QAS 234 or ACT Math score of 19 or QAS of 245 or Intermediate Algebra with Applications 10804118 with a "C" or better

English Composition 1

10801136

3 credits

Learners develop and apply skills in all aspects of the writing process. Through a variety of learning activities and written documents, learners employ rhetorical strategies, plan, organize and revise content, apply critical reading strategies, locate and evaluate information, integrate and document sources, and apply standardized English language conventions.

Prerequisite: High School GPA of 2.6 and MMW or Accuplacer Writing of 262 or ACT English score of 20 or completion of College Reading and Writing 1 10831104 with a "C" or better; ACT Reading 21; Accuplacer Reading 253

English 2

20801223

3 credits

Students continue the study of academic writing to attain advanced writing and critical thinking skills. Students learn textual synthesis, analysis, advanced source integration, and rhetorical strategies.

Prerequisite: English Composition 1 10801136 or Written Communication 10801195 with a "C" or better

Environmental Ethics

20809226

3 credits

An introduction to environmental ethics for students who have had little or no exposure to the philosophical issues surrounding the problems of nature. Problems to be discussed are endangered species, energy and pollution wilderness, environmental justice, world hunger, immigration and overpopulation, animal rights, and corporate obligations regarding the natural environment. Covers theoretical approaches and practical applications and provides a history of the development of our present ecological situations.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English or completion of College Reading and Writing 1 10831104 with a "C" or better

Environmental Science

10102101

3 credits

Develops an understanding of environmental concerns and current issues including water resources, total land use, population, pollution, and health. Examines ecological, economic, historical, and philosophic views of issues.

Environmental Wellness

10807210

1 credit

This course will explore the relationship between individuals and their environment and provide an overview of environmental wellness in relation to the impacts on human well-being. The student will focus on the individual's role in preserving and interacting with the environment to promote holistic health through sustainable interventions.

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 2.6 and MMS_1 and MMM_1 or Accuplacer Reading Skills of 262 and QAS of 246 or ACT Math score of 19 and Reading score of 19 or College Math 10804107 or Intermediate Algebra with Applications 10804118 with a "C" or better, or General Chemistry 10806134, or General Biology 10806114, or Human Body in Health & Disease 31509302

General Biology

10806114

4 credits

Introduces general biological concepts and principles. Emphasis is on cell structure and function, genetics, evolution, and taxonomical relationships. Consideration is also given to diversity among the various kingdoms.

Prerequisite: High School GPA of 2.6 and MMS_1, MMM_1; Accuplacer QAS 246 or ACT Math 19 or Accuplacer Reading Skills of 249 or ACT Reading score of 15

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.

Prerequisite: High School GPA of 2.6 or Accuplacer QAS of 246 or ACT of 19, or College Mathematics 10804107 with a "C" or better, or Intermediate Algebra with Applications 10804118 with a "C" or better

General Physics 1

10806154

4 credits

Presents the applications and theory of basic physics principles. This course emphasizes problem solving, laboratory investigation, and applications. Topics include unit conversion and analysis, vectors, translational and rotational kinematics, translational and rotational dynamics, heat and temperature, and harmonic motion and waves.

Corequisite: Trigonometry with Applications 10804196

Global Cultural Experience

10140101

1 credit

Through travel, students will gain experiences interacting with people from different cultures as they develop perspectives and skills to effectively interact within a global environment. Intercultural values and behaviors will be studied. The impact of geography, history, religion, and politics in shaping individual identities will be analyzed. Students will explore the importance of healthy group dynamics, professional communications, and interpersonal relationships for career success. Independent travel planning and execution will be a focus.

Corequisite: A college-sponsored domestic or international trip is a requirement of this course.

**this course does satisfy the Diversity Ethnic Studies requirement and/or Social and Behavioral Sciences requirement*

Human Biology

10806198

4 credits

This is an introductory course that emphasizes the structure of the human body and the functional interrelationships of the body's systems. Consideration is given to the human body and disease, human genetics, human ecology, and the role that humans play in the environment. The course consists of 3 hours of lecture and 2 hours of lab per week.

Note: This course does not meet requirements for or substitute for General Anatomy and Physiology or Anatomy & Physiology I and II. Prerequisite: High School GPA of 3.0 or Accuplacer Reading Skills of 236, or ACT of 15, or Accuplacer Reading 262, or QAS 246, or ACT Reading 196, or ACT Math 19, or General Chemistry 10806134, or General Biology 10806114, or Human Body in Health & Disease 31509302

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 2.6 and MMM_1 or Accuplacer Arithmetic of 263 and QAS 234 or ACT Math score of 19 or QAS of 245 or Pre-Algebra 10834109 with a "C" or better

Intro to Biochemistry

10806186

4 credits

Provides students with skills and knowledge of organic and biological chemistry necessary for application within Nursing and other Allied Health careers. Emphasis is placed on recognizing the structure, physical properties and chemical reactions of organic molecules, body fluids, and acids. Additional emphasis is placed on biological functions and their relationships to enzymes, proteins, lipids, carbohydrates and DNA.

Prerequisite: MMM_1, MMS_2; Accuplacer QAS 246, Reading 262, ACT Math 19, Reading 16. Chemistry is waived if you have completed two semesters of lab based high school chemistry with a C or better or college level lab-based chemistry with a C or better

Introduction 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 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English

Introduction to Diversity Studies

10809172

3 credits

This course introduces the study of diversity from a local to a global perspective using a holistic, interdisciplinary approach that encourages exploration and prepares students to work in a diverse environment. The course introduces basic diversity concepts, examines the impact of bias and power differentials among groups, explores the use of culturally responsive communication strategies, and compares forces that shape diversity in an international context.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English

**this course does satisfy the Diversity & Ethnic Studies requirement and/or Social and Behavioral Sciences requirement*

Introduction 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 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English

Introduction to Literature

20801204

3 credits

Presents the major literary genres of poetry, fiction, nonfiction, and drama, and their distinct characteristics. Students will be introduced to relevant theoretical approaches and the influence of culture on a text's creation. Students will discuss, analyze, interpret, and write about literature. This course enhances appreciation of literature and prepares students for further literary study.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading 262, QAS 246 and Writing of 262 or ACT Reading 196, Math 19 or completion of College Reading and Writing 1 10831104 with a "C" or better

Introduction to Philosophy

20809260

3 credits

This course introduces the traditional divisions of philosophy and methods of philosophical inquiry as presented by ancient and modern philosophers. Includes an examination of human nature, reality and being, religion and the existence of God, knowledge and truth, moral values, and social and political philosophy. Students will develop thinking, reasoning, and argumentation skills to support their own philosophical perspectives and challenge the perspectives of others.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English or completion of College Reading and Writing 1 10831104 with a "C" or better

Introduction 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 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English

Introduction 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, social organization, and workplace issues.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English

Introduction to World Religions

20809223

3 credits

This course will familiarize students with the religious traditions of the world by providing a broad overview of major religions including Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, and others. Indigenous religions and new religious movements will also be studied. An emphasis is placed on each religion's origins and historical development, main doctrines, teachings, ethics, sacred texts, and ways of worship.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English or completion of College Reading and Writing 10831104 with a "C" or better

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 2.6 and MMM_2 or Accuplacer QAS 241 or ACT Math score of 19 or Pre-Algebra 10834109 or College Math 10804107 with a "C" or better

Marriage and Family

20809204

3 credits

This course introduces the student to the sociological aspects of marriage and family life in contemporary American society. Students will become familiar with the empirical patterns and trends, political and cultural debates, and policy issues concerning families – and the major theories and research methods used in the sociological study of the family.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English

Microbiology

10806197

4 credits

Examines microbial structure, metabolism, genetics, growth and the relationship between humans and microbes.

Addresses disease production, epidemiology, host defense mechanisms and the medical impact of microbes. Presents the role of microbes in the environment, industry, and biotechnology.

Prerequisite: "C" or better in General Anatomy & Physiology 10806177 or General Biology 10806114 or Plant Biology 10806184

Music Appreciation

20805201

3 credits

Discover how music is intertwined with the history, art, politics, religion, and culture of people from around the world and across the centuries. Students will learn to identify voices, instruments, and genres of music from the Middle Ages to today. Students will develop active listening skills and an understanding of how music, beyond one's personal taste, can be appreciated for its artistry and significance on human interconnectedness. Attendance at one live school, community, or professional musical performance is required.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English

Nutrition for Life

20807202

1 credit

Examines the nutrient requirements of healthy individuals, nutrient categories, and food sources as well as their characteristics in relation to physiological functions, metabolism and disease prevention.

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 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English or College Reading and Writing with a C or better

Physical Fitness for Life

20807204

1 credit

Examines the relationship of physical fitness and activity to healthy lifestyles and wellness. Students will access current level of fitness, then plan and implement a personal fitness program.

COURSE DESCRIPTIONS

Principles of Macroeconomics

20809287

3 credits

Macroeconomics explores the performance and behaviors of a free-market economy; specifically output, income, and employment and how forces act to shape these factors and determine their fluctuations. Government fiscal and monetary roles as well as the impact of international transactions on the domestic economy are studied. Balance is drawn between theory, analysis, and a critique of the institutions that characterize modern mixed-capitalist economies. Conflicting social goals and economic constraints provide the framework through which the macroeconomy is analyzed.

Prerequisite: MMR, MMW, Accuplacer Reading 236, Writing 237; ACT Reading 15, English 16

Principles of Microeconomics

20809291

3 credits

This course introduces economic analysis of individual, business, and industry choices in the market economy. Topics include the price mechanism, supply and demand, optimizing economic behavior, costs and revenue, market structures, factor markets, income distribution, market failure, and government intervention. Upon completion, students should be able to identify and evaluate consumer and business alternatives to achieve economic objectives efficiently.

Prerequisite: MMR, MMW, Accuplacer Reading 236, Writing 237; ACT Reading 15, English 16

Principles of Sustainability

10806112

3 credits

Prepares the student to develop sustainable literacy, analyze the interconnections among the physical and biological sciences and environmental systems, summarize the effects of sustainability on health and well-being, analyze connections among social, economic, and environmental systems, employ energy conservation strategies to reduce the use of fossil fuels, investigate alternative energy options, evaluate options to current waste disposal and recycling in the U.S., and analyze approaches used by your community to promote and implement sustainability.

Quantitative Reasoning

10804135

3 credits

This course is intended to develop analytic reasoning and the ability to solve quantitative problems. Topics to be covered may include construction and interpretation of graphs; descriptive statistics; geometry and spatial visualizations; math of finance; functions and modeling; probability; and logic. Appropriate use of units and dimensions, estimates, mathematical notation, and available technology will be emphasized throughout the course.

Prerequisite: High School GPA of 2.6 and MMM_1 or Accuplacer QAS 241 or ACT Math score of 19 or Pre-Algebra 10834109 or College Math 10804107 with a "C" or better

Race, Class, Gender

10809217

3 credits

This course considers how race, class, gender, and sexuality, with roots in historical legacies of power, privilege, and oppression, continue to be constructed in a global context. Rather than analyzing race, class, gender, and sexuality as separate and distinct categories of difference, this course utilizes various theories to explore how these variables integrate, overlap, and intersect to affect individuals' and groups' lived experiences with structures of power. The course concludes with an examination of social movements and their role in constructing identity, challenging structural inequality, and creating social change.

Prerequisite: Introduction to Diversity Studies 10809172 or Introduction to Sociology 10809196

**this course does satisfy the Diversity Ethnic Studies requirement and/or Social and Behavioral Sciences requirement*

Spanish 1

20802211

4 credits

For students beginning the study of Spanish. Emphasizes development of basic communicative skills through practice in listening, speaking, reading, and writing. Stresses vocabulary and grammar to enhance students' ability to speak and write in Spanish. Study of customs and values provides an increased awareness of Spanish speaking cultures. On completion students are expected to participate in uncomplicated conversations on everyday topics.

Spanish 2

20802212

4 credits

Enhances student ability to learn to read, write, understand, and speak Spanish.

Prerequisite: Spanish 1 20802211 with a "C" or better

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. Includes informative, persuasive, and occasion speech presentations.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading Skills of 253 and Writing of 262 or ACT of 21 Reading/19 English or completion of College Reading and Writing 1 10831104 with a "C" or better

Stress Management: Fitness for Life

20807203

1 credit

The course explores the nature of stress, determinant causes, the physiological and psychological reactions to stress and will introduce and implement physiological, cognitive, and behavioral stress management techniques.

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 1 10801136 or Written Communication 10801195 with a "C" or better

The Well Traveler

10807205

1 credit

In this course the student will examine components of travel as it impacts their personal dimensions of health and wellness. The student will develop global citizenship skills by preparing for travel with an emphasis on maximizing opportunities that support individual well-being and the appreciation of growth through experiences. We will also explore interventions to ensure safety while traveling.

Think Critically & Creatively

10809103

3 credits

Provides instruction about critical and creative thinking that is in high demand in all occupations. Models, theories, and processes provide the foundation for learning logical thinking strategies. Students will apply a systematic approach to problem solving by analyzing the problem, assessing possible solutions, and making effective decisions. In addition, students will generate ideas and analyze complex issues. This course assists students with developing a critical thinking mindset which is essential at every level of personal and professional life.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English

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: ACT Math score of 22 or Intermediate Algebra with Applications 10804118 with a "C" or better

U.S. History 1877 to Present

20803212

3 credits

Surveys U.S. political, social, and economic development from the post-Civil War era to the present. Emphasizes reading, writing, and discussion.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English or completion of College Reading and Writing 1 10831104 with a "C" or better

U.S. History to 1877

20803211

3 credits

Surveys U.S. political, social, and economic development from the pre-colonial era to the post-Civil War period. Emphasizes reading, writing, and discussion.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English or completion of College Reading and Writing 1 10831104 with a "C" or better

World History to 1500

20803258

3 credits

Survey to 1500 of the political, economic, social, geographic, and religious/philosophical characteristics of the major world civilizations and the interactions among these civilizations.

Prerequisite: High School GPA of 2.6 and MMR and MMW or Accuplacer Reading Skills of 236 and Writing of 237 or ACT of 15 Reading/16 English or completion of College Reading and Writing 1 10831104 with a "C" or better