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7th Grade

0207 7th Grade Art

Seventh Grade Art is no longer available at NPMHS

0307 7th Grade Computer Development

Recognizing that computers are used both in higher education and the workplace, students will improve touch method keyboarding techniques, increasing accuracy and speed. Basic technical communication skills will focus on proper email format and email etiquette. The development of skills that students will use throughout their schooling will be introduced as they are taught to use word processing, spreadsheet and presentation software. Students are also introduced to technological research as they find, classify, order and cite information. Computer ethics and policies are taught by examining the school computer usage policy.

0507 Reading in the Content Areas 7

The primary focus of Reading in the Content Areas 7 is literacy and the important role it plays in our lives. Students will be introduced to the power of literacy for personal, academic, and social growth. Through this course, students will access a wide range of reading genre; they will simultaneously acquire the skills necessary to choose effective, related reading strategies. The reading Apprenticeship framework will be used as the basis for skill development in the course.

0807 Grade 7 English

Seventh grade English includes a study of grammar, composition, spelling, and literature. Literature includes a study of short stories, the novel, poetry, mythology, fables, folklore, and drama. Composition encompasses informative, persuasive, and narrative paragraph writing done in conjunction with the study of literature.

0907 7th Grade Family and Consumer Science

This course serves as an introduction to the Family and Consumer Sciences program. Basic concepts and skills in food and nutrition and in personal development will be covered at this level.

1507 7th Grade Industrial Arts

This course is an exploration of concepts of design and basic materials. The students will construct an assigned project to demonstrate the proper use of various tools.

1607 Grade 7 Standards Math

This course establishes a firm mathematical foundation upon which 7th grade students can utilize and refine skills introduced in elementary courses as well as prepare for studies in higher-level mathematics. The course focuses on the practical application of mathematical concepts and problem solving. The course content is closely aligned to Pennsylvania State Standards of Academic Achievement.

1607A Pre-Algebra 7

Pre-Algebra provides the mathematical background, skills, and thinking processes necessary for the successful completion of Algebra. Topics include: (1) number sense and computation, (2) algebra and functions, (3) geometry, (4) measurement, (5) data analysis, and (6) probability. The instructional program of this course addresses both the understanding and use of the concepts in appropriate problem-solving situations.

1707 7th Grade Music Composition

General music in seventh grade is an introductory course to more formal styles of music. The elements of music (melody, harmony, tone color, rhythm, form, and texture) are studied through singing, playing, writing, listening, and composing. Musical theater may be introduced through a study of one musical. Musical instruments may be explored through listening, lecture, playing, and hands-on assembly.

1714 Junior High Chorus

Junior High Chorus is a performance ensemble. Two concerts a year may be prepared and performed. Attendance at all concerts is mandatory. Students participating in chorus come to understand and are able to perform music in a variety of vocal styles from various periods of music history. Selections may be sung in a wide variety of languages.

1807 7th Grade Health & Physical Education

Physical Education at this level is designed to promote physical, mental, and social well-being of the student through active participation in physical activities including team sports, rhythm and dance, and personal health fitness. Nutrition, physical fitness, safety, and the prevention of alcohol, chemical, and tobacco abuse will be addressed.

1907 Life Science 7

Seventh grade Integrated Science provides comprehensive coverage of life, earth, and physical science including units on earth's materials, the atmosphere, life structure, the body systems, interdependence of life forms, and matter & energy. There is a strong focus on critical thinking, decision-making and real-world applications.

2007 World History & Geography 7th

During the course, students will examine the basic themes of geography and social studies. Through an examination of World and US Geography, students will focus on how geography is used to explain the past, interpret the present, and plan for the future. Students will also be exposed to the key themes of culture and historical analysis through the exploration of past civilizations

8th Grade

0208 8th Grade Art

The eighth grade art course is intended to be an introduction to the junior high/high school art experience. Art Eight focuses on the four visual arts acquisition skills outlined in the PA Academic Standards for the Arts and Humanities:

1. Production/Performance/Exhibition (processes of making and showing art)
2. Historical and Cultural Context (history of art)
3. Critical Response (analysis of art)
4. Aesthetic Response (artistic choices)

The objectives of the course are to introduce students to a variety of media and techniques, help students build creative problem solving skills in art production and interaction, assist students in building, defining, and using an art vocabulary, teach students to apply critical responses and aesthetic judgments to their own artwork and the work of others, and build upon prior art experiences, and prepare students for future art experiences

0308 8th Grade Computer Literacy

This course expands upon the Computer Development Class. Emphasis is placed on mastery of computer knowledge and skills, including hardware and software elements. Students refine skills in formatting documents such as personal business letters, reports, tables, and using mail merge features. Students will be prepared to take the Word Core Certification Test. Proofreading skills are developed with emphasis on grammar, punctuation and producing accurate work. Explore and use resource materials – use online and offline help, tutorials, and resources to learn software. Projects will integrate computer applications.

0508 Reading in the Content Areas 8

Reading in the Content Areas 8 will build on the previous year's course of study by applying strategies to specific reading in the areas of nonfiction and research.

0808 8th Grade English

Eighth grade English is an integration of literature, grammar, vocabulary, and composition. Literature includes the study of American folk tradition and the study of the elements of the novel. Grammar focuses on the study of mechanics. Composition includes the five-paragraph theme

0908 8th Grade Family and Consumer Science

This course provides the second level introduction to the Family and Consumer Sciences program. Basic concepts and skills in clothing and textiles and in family roles will be covered at this level.

1508 8th Grade Industrial Arts

This course continues the concepts taught in 7th grade and introduces additional equipment. The students will construct an assigned project to demonstrate the proper use of various tools. Students will also be given a basic introduction to drafting and design, free hand sketching, and enlarging and reducing drawings.

1608 8th Grade Standards Math

Topics in this class will include operations of algebra, investigations of geometry, using probability, and graphing in the coordinate plane. The course content is closely aligned to Pennsylvania State Standards of Academic Achievement.

1708 8th Grade Music History

Emphasis for eighth grade music is on studying the main periods of music history: Medieval and Renaissance, Baroque, Classical, Romantic, and Twentieth Century. The focus includes American music and composers from various periods. It also includes the history of the American Musical and opera. A major objective will be to guide students to learn how to listen to music for life-long appreciation. A variety of musical styles will be presented through various listening exercises so students will become aware of the vast amount of music that is available.

1714 Junior High Chorus

Junior High Chorus is a performance ensemble. Two concerts a year may be prepared and performed. Attendance at all concerts is mandatory. Students participating in chorus come to understand and are able to perform music in a variety of vocal styles from various periods of music history. Selections may be sung in a wide variety of languages.

1808 8th Grade Health & Physical Education

Physical Education at this level is designed to promote physical, mental, and social well-being of the student through active participation in physical activities including team sports, rhythm and dance, and personal health fitness. Nutrition, physical fitness, safety, and the prevention of alcohol, chemical, and tobacco abuse will be addressed.

1908 8th Grade Physical Science

Eighth grade integrated Science continues with in-depth coverage of life, earth, and physical science realms. Units include heredity, ecology, changes in the earth's physical make-up, the universe as it relates to earth, basic chemistry, motion and the forces of energy, and physical interactions. Students are given many opportunities to relate the material to real-world decisions.

2008 8th Grade American History I 8th grade history is now US History 1: Course focuses on the age of exploration up through the American Revolution, the Constitution and the beginnings of the United States.

This course is a micro - American History focusing on Pennsylvania. The course also explores local historical events and people in American History from the earliest Native Americans through the closing events of the Civil War. Highlights will include Native Americans, exploration, colonization, the Revolutionary Era, the Constitution, slavery, and the Civil War.

Grades 9 – 12

Agribusiness (01)

0109 Introduction to Agribusiness

0.5 Credit

The introduction of Agribusiness is designed to introduce the dynamics of agricultural science and business. Through classroom, laboratory, and greenhouse work, students will be better equipped to make culturally, environmentally, and financially responsible judgments in and about the agricultural world around them. Topics for inquiry will include forestry, wildlife management, animal and plant husbandry, environmental science, horticulture, aquaculture, hydroponics, biotechnology, agribusiness, and others. Units of topic will also include vehicle, machinery and farm equipment systems. . **(At North Penn-Liberty High School ONLY)*

0110 Mechanics and Technology I

1.0 Credit

The topics in this course will include systems of masonry, plumbing, and basic framing carpentry. Safe usage of common power hand tools will be emphasized. Skills applicable to the average homeowner will be taught. Career opportunities, apprenticeship, and vocational/technical schooling for these topic areas will be explored **(At North Penn-Liberty High School ONLY)*

0111 Horticulture

1.0 Credit

Classroom instruction consists principally of instruction in plant science and horticultural principles and practices. Topics will include the importance of plants in society, plant anatomy and physiology, soil science, growth and reproduction of important agronomic crops, and disease and pest control in plants. Students in this class are assigned the responsibility of managing several greenhouse crops. Emphasis is also given to laboratory technique in plant tissue culture (cloning of plants). Landscape design and implementation projects may be undertaken. Hydroponics labs will be conducted. Career opportunities in horticulture, floriculture, landscaping, and plant propagation are discussed. **(At North Penn-Liberty High School ONLY)*

0112 Environmental Science & Natural Resource Management

1.0 Credit

This course is designed to give the student an understanding and appreciation of the impact of man's activities on the environment. Ground water contamination, waste disposal, soil conservation and management, the management of renewable natural resources, and topics in forestry and wildlife conservation and management are included in this course. Basic mapping and surveying techniques will be demonstrated to complement general scientific process. The course content is designed to meet the needs of those students who wish to pursue careers in environmental science, conservation, forestry, and fish and wildlife management. **(At North Penn-Liberty High School ONLY)*

0113 Animal Science

1.0 Credit

This class consists of advanced study in the science of animal agriculture. Topics include the history, development, and future of animal agriculture. This course involves the in-depth study of all animal systems and current topics in animal biotechnology, such as cloning, intensive/selective breeding, artificial insemination, and growth and production hormones. Non-traditional animal crops and systems will be discussed. Some lab or production work may be required, especially with our aquaculture system. Course content is designed to meet the needs of those students who may be considering a career in animal agriculture, pet care, veterinary medicine, or animal nutrition. *(Biology is recommended prior to this course) *(At North Penn-Liberty High School ONLY)*

0114 Agribusiness Computer Applications

1.0 Credit

The computer lab in the agriscience classroom will be used for applied study in agribusiness. Word-processing, presentation graphics, web page design, spreadsheets, databases, digital photography, and Internet research will be covered. Use of computers and technology in agriscience will be demonstrated by real-time data collection and analysis from the aquaculture, hydroponics, and greenhouse systems. Agribusiness production, distribution, and financial models will be examined. Market structures will be studied and tracked via the Internet. **(At North Penn-Liberty High School ONLY)*

0115 Mechanics and Technology II

1.0 Credit

This course is designed for students who enjoy practical, hands-on work. Topics will include systems of welding (oxy-acetylene and stick welding), small gasoline engines, and AC electrical service. Safe usage of common power hand tools will be emphasized. Skills applicable to the average homeowner will be taught. Career opportunities,

apprenticing, and vocational/technical schooling for these topic areas will be explored. **(At North Penn- Liberty High School ONLY)*

Art (02)

0209 9th Grade Art

1.0 Credit

Ninth grade art is an elective course, intended to be an introduction to high school art experience and a continuance of the skills, techniques and processes learned in Art 8.. Art Nine focuses on the four visual arts acquisition skills outlined in the PA Academic Standards for the Arts and Humanities:

1. Production/Performance/Exhibition (processes of making and showing art)
2. Historical and Cultural Context (history of art)
3. Critical Response (analysis of art)
4. Aesthetic Response (artistic choices)

The objectives of the course are to build upon prior experiences with visual media and techniques, develop in depth creative problem solving skills in art production and interaction, enhance student use of an art vocabulary, and hone critical responses and aesthetic judgments to their own artwork and the work of others.

0209E 9th Grade Art

0.5 Credit

(½ Year) Ninth grade art is an elective course, intended to be an introduction to high school art experience and a continuance of the skills, techniques and processes learned in Art 8. Art Nine focuses on the four visual arts acquisition skills outlined in the PA Academic Standards for the Arts and Humanities:

1. Production/Performance/Exhibition (processes of making and showing art)
2. Historical and Cultural Context (history of art)
3. Critical Response (analysis of art)
4. Aesthetic Response (artistic choices)

The objectives of the course are to build upon prior experiences with visual media and techniques, develop in depth creative problem solving skills in art production and interaction, enhance student use of an art vocabulary, and hone critical responses and aesthetic judgments to their own artwork and the work of others.

0210 Drawing and Painting

1.0 Credit

Drawing and Painting is the second elective high school art course, intended to follow Ninth Grade Art. Drawing and Painting focuses on the four visual arts acquisition skills outlined in the PA Academic Standards for the Arts and Humanities:

- Production/Performance/Exhibition (processes of making and showing art)
- Historical and Cultural Context (history of art)
- Critical Response (analysis of art)
- Aesthetic Response (artistic choices)

The objectives of the course are to work specifically within two dimensional media, in a wide range of tools and techniques. Students will further their understanding and develop their skills in graphite pencil, charcoal, ink, pastel, watercolor, acrylics, and a variety of other two dimensional materials. Cultural content, critical, and aesthetic responses will be aligned to the materials and techniques used, and will change for each unit of study.

(9th Grade Art is recommended prior to this course)

0210E Drawing and Painting

0.5 Credit

(½ Year) Drawing and Painting is the second elective high school art course, intended to follow Ninth Grade Art. Drawing and Painting focuses on the four visual arts acquisition skills outlined in the PA Academic Standards for the Arts and Humanities:

1. Production/Performance/Exhibition (processes of making and showing art)
2. Historical and Cultural Context (history of art)
3. Critical Response (analysis of art)
4. Aesthetic Response (artistic choices)

The objectives of the course are to work specifically within two dimensional media, in a wide range of tools and techniques. Students will further their understanding and develop their skills in graphite pencil, charcoal, ink, pastel, watercolor, acrylics, and a variety of other two dimensional materials. Cultural content, critical, and aesthetic responses will be aligned to the materials and techniques used, and will change for each unit of study.

(9th Grade Art is recommended prior to this course)

0211 Ceramics and Sculpture

1.0 Credit

Ceramics and Sculpture is the third elective high school art course, intended to follow Drawing and Painting. Ceramics and Sculpture focuses on the four visual arts acquisition skills outlined in the PA Academic Standards for the Arts and Humanities:

1. Production/Performance/Exhibition (processes of making and showing art)
2. Historical and Cultural Context (history of art)
3. Critical Response (analysis of art)
4. Aesthetic Response (artistic choices)

The objectives of the course are to work specifically within three dimensional media, in a wide range of tools and techniques. The primary focus of Ceramics and Sculpture will be work in clay (ceramics.) Additionally, students will work in plaster, wire, papers, fabric, metal, and a variety of other three dimensional materials. Glazing and other finishes for ceramics will be considered, and students will gain an understanding of bisque and glaze firing processes. Cultural content, critical, and aesthetic responses will be aligned to the materials and techniques used, and will change for each unit of study.

(Drawing and Painting is recommended prior to this course)

0211E Ceramics and Sculpture

0.5 Credit

(1/2 year) Ceramics and Sculpture is the third elective high school art course, intended to follow Drawing and Painting. Ceramics and Sculpture focuses on the four visual arts acquisition skills outlined in the PA Academic Standards for the Arts and Humanities:

1. Production/Performance/Exhibition (processes of making and showing art)
2. Historical and Cultural Context (history of art)
3. Critical Response (analysis of art)
4. Aesthetic Response (artistic choices)

The objectives of the course are to work specifically within three dimensional media, in a wide range of tools and techniques. The primary focus of Ceramics and Sculpture will be work in clay (ceramics.) Additionally, students will work in plaster, wire, papers, fabric, metal, and a variety of other three dimensional materials. Glazing and other finishes for ceramics will be considered, and students will gain an understanding of bisque and glaze firing processes. Cultural content, critical, and aesthetic responses will be aligned to the materials and techniques used, and will change for each unit of study.

(Drawing and Painting is recommended prior to this course)

0212 Advanced Art/Portfolio Prep

1.0 Credit

This advanced level course will provide students intending to further pursue visual art interests with the opportunity to enhance their technical, critical, and aesthetic skills and insights. Students will focus on developing portfolios of their work and advancing their skills in a variety of two and three dimensional media and techniques. In addition, they will conduct in depth research of art history as it pertains to the projects in the course. This course may be elected for 0.5 or 1.0 credit depending on students' scheduling needs. Admission into the course should be by decision of the art teacher and the guidance counselor.

0212E Advanced Art/Portfolio Prep.

0.5 Credit

(1/2 year) This is an advanced level course which provides an overview for students intending to further pursue visual art interests with the opportunity to enhance their technical, critical, and aesthetic skills and insights. Students will focus on developing portfolios of their work and advancing their skills in a variety of two and three dimensional media and techniques. In addition, they will conduct in depth research of art history as it pertains to the projects in the course. This course may be elected for 0.5 or 1.0 credit depending on students' scheduling needs. Admission into the course should be by decision of the art teacher and the guidance counselor.

0213-D Art History (Dual Enrollment)

1.0 Credit (3.0 College Credits)

Overview of the dominant movements and ideas in art and architecture from the 1880's to 1970. Includes Impressionism, Post-Impressionism, symbolism, Art Nouveau, Fauvism, German Expressionism, Cubism, Futurism, Dada, Surrealism, Suprematism, Constructivism, De Stijl, Abstract Expressionism, Color-Field, Minimalism, Pop, Realism, and Superrealism. ***MU Course Name/Description: ARH 3331 – History of Modern Art Prerequisites & Notes: ARH 1101 or ARH 1102. **Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees*****

Business (03)

Innovate 1.0

1.0 Credit

This new course allows students to actively learn entrepreneurship, leadership, and business by creating, designing, and implementing integrated curricular projects and personalized learning. Students will participate in a real-world, career-focused education which allows students to be entrepreneurs of their own education.

0310 Exploring Business

1.0 Credit

This introductory course will bring students into contact with a vast array of business subjects/areas. Units covered will include: basic business concepts, economic systems and indicators, stock market operations, business ownership, entrepreneurial characteristics and skills, ethics and social responsibility of business, using banking and financial services, government regulations, business communication skills, and business career opportunities. Throughout the course, students will learn how to construct, read and interpret business data. This project-based class will have the student's research, compose and present a business plan to open a business.

0310E Exploring Business

0.5 Credit

(1/2 year): This introductory course will bring students into contact with a vast array of business subjects/areas. Units covered in this course include but are not limited to: basic business concepts, economic systems and indicators, business ownership, entrepreneurial characteristics and skills, ethics and social responsibility of business. Students are required to research, compose and present a business plan to start a business. Microsoft Office tools will be used by the student to complete all assignments and projects for this course.

0319 DigiCom

1.0 Credit

This course is designed to provide students with skills and knowledge to effectively communicate with digital technologies. Topics include: computer systems, computer applications, emerging technologies, input technologies (digital cameras, scanners, wireless devices, and speech recognition), input or ergonomic techniques, and networking. Students will be required to produce quality business documents with an emphasis on desktop publishing. Students taking this class will be eligible to earn IC3 Certification indicating that they are proficient in computer operations and applications.

0319E DigiCom

0.5 Credit

(1/2 year): This course is designed to provide students with skills and knowledge to effectively communicate with digital technologies. Topics include but are not limited to: computer platforms, application and system software, computer applications, emerging technologies, input technologies and networking. Special projects will be assigned based on the needs and goals of each individual learner. Project topics include: Website development, Computer Buying, Electronic Portfolios, Podcasting, Video Podcasting, Animation and Graphic Design.

I 0311 Accounting

1.0 Credit

Accounting I is designed for the student who would like a strong foundation in basic accounting theory and procedures. Emphasis is placed on the recording and reporting phases of accounting for service and merchandising businesses organized as sole proprietorships and corporations. The student will gain computer literacy and a general understanding of how the computer can be used to perform various accounting activities. A unit on business and personal banking is also included in this course.

0314 Accounting II

1.0 Credit

Accounting II is a course designed for the student who would like to further his/her accounting knowledge. The emphasis of the course will be placed on advanced accounting procedures, such as payroll, promissory notes, depreciation, and uncollectable accounts. Analyzing and interpreting financial statements is also included. The student will be utilizing the computer extensively for completion of accounting activities. (*Accounting I is recommended prior to this course*)

0325AC ACE Accounting

1.0 Credit (4 College Credits)

Vocabulary and concepts of accounting and bookkeeping for the small business. Provides some knowledge of accounting for working in a business environment and some skills to do the accounting in a small business organization.

Corning Community College Course Name/Description: ACCT 1000 Accounting Practices. To receive college credit from Corning Community College students must pay a fee – see Guidance for details.

0312 Marketing I**1.0 Credit**

Students will acquire knowledge of marketing functions, marketing research, economic systems, product design and pricing, promotion, purchasing, sales promotion, visual marketing techniques, inventory management, personal and business communication skills, and consumer education. Projects and activities reinforce math, reading and English knowledge in addition to critical thinking and problem-solving skills. Computer skills are reinforced through the use of different applications

0312E Marketing I**0.5 Credit**

(1/2 year): Students will acquire knowledge of marketing functions, marketing research, economic systems, product design, pricing, promotion, purchasing, sales, visual marketing techniques and business communication skills. Projects and activities reinforce math, reading and English knowledge in addition to critical thinking and problem-solving skills. Computer skills are reinforced through the use of different applications.

0315 Advanced Marketing**1.0 Credit**

Students will continue to expand their knowledge and apply marketing, management, and entrepreneurial principles in fields of interest. Topics of study include: sports and entertainment, hospitality and services, travel and tourism, fashion, merchandising, e-commerce and e-tailing, and international marketing. Emphasis is placed on the development of business math and advanced communication skills. Web page development will be integrated in the course. (*Marketing I is recommended prior to this course*)

0315E Advanced Marketing**0.5 Credit**

(1/2 year): Students will continue to expand their knowledge and apply marketing, management, and entrepreneurial principles in fields of interest. Projects topics include but are not limited to: design and development of an Ecommerce website, marketing strategies for the sale of products on Ebay and other Ecommerce sites. (Marketing I is recommended prior to this course.)

0316 Business/Consumer Law**1.0 Credit**

This course is designed for students interested in the legal system. This course introduces an overview of awareness and knowledge of common legal problems/issues facing young adults. Topics studied include the American legal system, criminal and civil law, the court system, contracts, computer law, consumer's role in society, and rights and responsibilities of a minor. Guest speakers and field trips to local courthouses are part of this class. This course is a good introduction to college level Business Law and those students interested in pursuing a career in law or in a law-related field, i.e., attorney, law enforcement, probation, paralegal, or legal secretary.

0316E Business/Consumer Law**0.5 Credit**

(1/2 year) This course is an overview designed for students interested in the legal system. This course introduces an overview of awareness and knowledge of common legal problems/issues facing young adults. Topics studied include the American legal system, criminal and civil law, the court system, contracts, computer law, consumer's role in society, and rights and responsibilities of a minor. Guest speakers and field trips to local courthouses are part of this class. This course is a good introduction to college level Business Law and those students interested in pursuing a career in law or in a law-related field, i.e., attorney, law enforcement, probation, paralegal, or legal secretary.

0317 Real World Business**1.0 Credit**

Skills learned in this class will enable the student to obtain entry-level employment skills. Topics focused on will include: business writing and communication, records management, note taking and transcription, machine transcription, telephone etiquette, integration of computer applications, proofreading skills, use of reference materials, collaborative technologies.

0317E Real World Business**0.5 Credit**

(1/2 year) This course is an overview of skills which enable student to obtain entry-level employment skills. Topics focused on will include: business writing and communication, records management, note taking and transcription, machine transcription, telephone etiquette, integration of computer applications, proofreading skills, use of reference materials, collaborative technologies.

0318 Personal Financial Planning**1.0 Credit**

With personal bankruptcies on the rise, it is important that students become equipped with knowledge and skills, to help them to manage their money wisely. Topics covered in this class will be budgeting, gross and net pay, payroll taxes, income and expenses, investing for the short and long term, credit, major consumer purchases, debt management, insurance and taxes, banking, and financial systems.

0318E Personal Financial Planning **0.5 Credit**
(1/2 year) This course is an overview to equip students with knowledge and skills, to help them to manage their money wisely. Topics covered in this class will be budgeting, gross and net pay, payroll taxes, income and expenses, investing for the short and long term, credit, major consumer purchases, debt management, insurance and taxes, banking, and financial systems

0318-D Personal Financial Planning (Dual Enrollment) **1.0 Credit (3.0 College Credits)**
The focus of this course is to provide financial decision making tools and techniques of money management. The course will analyze handling of financial records, financing of home and automobiles, financing of education, estate and retirement planning. **MU Course Name/Description: BUS 2202 – Personal Finance** ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay reduced university tuition/fees****

0320 Advanced Computer Applications – Microsoft Office Specialist **1.0 Credit**
Become certified! This advanced computer applications class will give students the opportunity to earn their certification as a Microsoft Office Specialist. This globally recognized certification certifies a student as being proficient in one or more of the following desktop applications: Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Access, Microsoft Outlook, and Microsoft Project. While the goal is to have students take certification exam(s), students may elect to take the class and not take the exams. Knowledge of how to efficiently use these applications will benefit the student who chooses to either enter the workforce or continue to higher education.

0320E Advanced Computer Applications – Microsoft Office Specialist **0.5 Credit**
Microsoft Office Specialist (1/2 year): Become certified! This advanced computer applications class will give students the opportunity to individualize their course of study and become certification as a Microsoft Office Specialist. This globally recognized certification certifies a student as being proficient in one or more of the following desktop applications: Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Access, Microsoft Outlook, and Microsoft Project. While the goal is the have students take certification exam(s), students may elect to take the class and not take the exams. Knowledge of how to efficiently use these applications will benefit the student who chooses to either enter the workforce or continue to higher education.

ACC1133 Introduction to Financial Accounting **1.0 Credit (3 Lecture Credits)**
Basic principles and applications of financial accounting for business students. Preparation and interpretation of financial information are emphasized. Course work provides the accounting knowledge necessary for success in more advanced accounting courses and in the business field.

BWM150 Introduction to Web Page Development (Dual Enrollment) **1.0 Credit (3 Lecture Credits)**
Introductory coverage of the Internet and online Web technologies. Skills learned include how to plan, create, and maintain static Web pages. (Formerly CIT150) *Prerequisite(s): Placement by Examination or MTH004 and Placement by Examination or RDG111.*

CSC124 Information, Technology, and Society (Dual Enrollment) **1.0 Credit (3.0 Lecture Credits)**
Introduction to the basic concepts and applications of computer and Internet-related information technology and its impacts on individual users, businesses, groups, organizations, and society. Topics include access, evaluation, and use of digital information; ethical and security implications of information use and storage; human-computer interactions; social aspects of information systems; economic and legal issues; and professional presentation and communication of information. Information literacy skills that promote lifelong learning are developed through exposure to various existing and emerging technologies, including information resources, communication methods, and technology. 3 Credits (3 Lecture) *Prerequisite(s): Placement by Examination or RDG111.*

0322AC ACE Computer Literature and Microcomputer Application (Dual Enrollment) **1.0 Credit (4.0 College Credits)**
Students will complete projects integrating spreadsheets, databases, word processing, and graphic presentations with embedding and linking applications. Graphic User Interface (Windows operating system) will be utilized throughout the course. Hardware analysis, operating system comparison, binary numbers system manipulation, and telecommunications and network technology literacy will be studied. **CCC Course CSIT 1390 To receive college credit from Corning Community College students must pay a fee – see Guidance for details.**

0323AC ACE Financial Accounting (Dual Enrollment)**1.0 Credit (4 College Credits)**

This course covers theories, principles, and procedures related to financial or general accounting. Generally accepted accounting principles as they related to the valuation of assets and equities and the measurements of accrual-based income - **CCC Course ACCT 1030 To receive college credit from Corning Community College students must pay a fee – see Guidance for details.**

0324AC ACE Website Development (Dual Enrollment)**1.0 Credit (3.0 College Credits)**

This class uses web page development techniques using HTML, XHTML, and web site authoring software. Presents skills necessary to build, deploy and manage professional web pages. Topics include basic tags and more advanced features while emphasizing accessibility, compatibility, security, and emerging Internet trends.- **CCC Course CSWT 1200 To receive college credit from Corning Community College students must pay a fee – see Guidance for details.**

MGT105 Introduction to Business (Dual Enrollment)**1.0 Credit (3.0 Lecture Credits)**

Introduction to a variety of business concepts and practices that impact all organizations, as well as the knowledge and skills needed to be successful in an organization. Topics include interpersonal communications, emotional intelligence, economics, accounting, and finance and investments. An integrative approach connects topics and provides context within organizational environments, relevance to current business situations, and advances across various fields of business. Sophomore-Approved Course

Reading & Communications (05)

0512 Communications/Senior Project**0.5 Credit**

This course is project-based with an emphasis on completing the Graduation Project. Students complete the project based on the goals and timeline established in their Junior year. A major component of the Graduation Project is the reflection paper completed in this course. The reflection paper is a personal evaluation of the entire Graduation Project experience. In addition, students prepare for an oral presentation of their project. This presentation documents the project, reflects on personal growth, and must include a visual and a brief question and answer period.

The purpose of the Graduation Project is to provide an opportunity for students to demonstrate the knowledge and maturity gained during their high school career. The project is the culmination of the knowledge, skills, and experience achieved throughout their high school career. The Graduation Project is a multi-faceted production. The components include the following: documentation, experience, reflection, and presentation.

- The Documentation component, involves writing a career-related research paper. This paper is written during the junior year and may build on career research conducted during the Career Preparation Portfolio (CPP) class. The writing and evaluation of this paper occurs in the 11th grade Communications class. This research paper becomes an integral part of the Documentation component of the Graduation Project.
- The Experience component, requires the student to produce a tangible product. The product might include something physical that can be seen and touched, a community-based service that can be documented, or something performed. The experience must include a minimum of twenty hours, which must be verified by an adult familiar with the topic.
- A Reflection paper is written and evaluated during the 12th grade Communications course.
- A Presentation, followed by a question and answer period, completes the Graduation Project.

Community Service (06)

0601 Community Service**1.0 Credit**

The Community service Volunteer Service Program is designed to help our students focus on the needs of individuals within our local community and schools. This is consistent with the goals of our character education program. A minimum of 80 hours of service will be required. Hours may be accumulated from the beginning of the freshmen year. Community Volunteer Service may be completed outside the regular school day. Students may earn no more than 50% of the required hours by tutoring in the elementary schools.

0602 Educational/Clerical Aide

0.5 – 1.0 Credit

Each high school has a limited number of positions in which students work with office staff or teachers. These students assist district personnel in whatever capacity is required to support educational programming. Students will work under the direction of a supervisor, but will be expected to complete projects which require independent initiative, communication and organizational skills. Students will receive grades for achievement as identified in a pre-designed assessment instrument. A student may receive only one credit for participation in this program. By participation in this program a student can earn no more than 50% of the required hours needed to fulfill the Graduation Requirement for Community Service. Students scheduled to fill these positions will be approved by the supervising teacher/staff member, guidance counselor, parent, and building principal.

0603 Tutoring

0.5 – 1.0 Credit

Students may elect to serve as tutor in the elementary school or in the junior/senior high school if there is a need and the student has achieved an appropriate level of proficiency in the specific curricular area. A student may receive one credit for participation in this program. Students will receive grades for achievement as identified in a pre-designed assessment instrument. By participation in this program a student can earn no more than 50% of the required hours needed to fulfill the Graduation Requirement for Community Service. Students scheduled to fill these positions will be approved by the supervising teacher/staff member, guidance counselor, parent, and building principal.

Driver's Education (07)

0701 Driver's Education

0.5 Credit

The classroom curriculum will center around the following general areas which include, but not be limited to, basic vehicle control and maneuvers, safe driving and efficient practices, handling complex emergencies, emergency skills, influences that affect a driver's ability, and consumer responsibilities. These areas will be covered using the *PA Manual* and the textbook and workbook *Drive Right*.

English (08)

0809 Grade 9 English, Introduction to Literary Genre

1.0 Credit

Ninth grade English continues the study of literature including the elements of the novel, literary devices, *Romeo and Juliet*, and poetry. Literary analysis is introduced at this level. Students continue the practice of composition and grammar studies including subject/verb agreement, usage, modifiers, and principal parts of verbs. The study of vocabulary continues.

0810 Grade 10 English, World Literature

1.0 Credit

Tenth grade English is a balanced study of literature, language, and composition. A collection of culturally diverse literature is used to study the elements of the short story and the novel. The elements of drama are examined in a unit on William Shakespeare which includes the reading of *Julius Caesar*. English grammar is taught in the context of the students' writing. The organization of written text is examined in depth. ****KEYSTONE EXAM GIVEN FOR THIS COURSE (STARTING WITH CLASS OF 2017****

0811 Grade 11 English, Literature of the Americas

1.0 Credit

Eleventh grade English focuses on the study of American literature with a concentration on how literature reflects the society in which it was written. A selection of American novels supplements the literature text. Composition includes literary analysis, narratives, and the five paragraph essay. Grammar and mechanics are approached through application to a student's work and through the analysis and editing of the writing of others. Vocabulary studies are derived from literature as well as through a formal program.

0811-D Literature of America, American Literature (Dual Enrollment)

1.0 Credit (3.0 College Credits)

For students in Grades 11 and 12) Focuses on the study of American literature with a concentration on how literature reflects the society in which it was written. A selection of American novels supplements the literature text. Composition includes literary analysis, narratives, and the five paragraph essay. Grammar and mechanics are approached through application to a student's work and through the analysis and editing of the writing of others. Vocabulary studies are derived from literature as well as through a formal program. ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

0818 Grade 11 Advanced English

1.0 Credit

This course includes all elements of Grade 11 English, but an accelerated and in depth study of grammar, composition, and literary analysis. This course is designed to complement the college bound student's goals.

0818-D Composition (Dual Enrollment)

1.0 Credit (3.0 College Credits)

(For students in grades 11 and 12) English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The course includes intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. Reading in an AP course is both wide and deep. This reading necessarily builds upon the reading done in previous English courses. In their AP course, students read works from several genres and periods—from the sixteenth to the twenty-first century—but, more importantly, they get to know a few works well. They read deliberately and thoroughly, taking time to understand a work's complexity, to absorb its richness of meaning, and to analyze how that meaning is embodied in literary form. In addition to considering a work's literary artistry, students reflect on the social and historical values it reflects and embodies. Writing is an integral part of the AP English Literature and Composition course and exam. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

0812 Grade 12 English, British Literature (Dual Enrollment)

1.0 Credit

Twelfth grade English includes the study of British literature from the Anglo-Saxon period to the Twenty-First Century. Vocabulary is drawn from literary selections as well as from formal vocabulary programs. Composition includes the writing of and the study of the essay, critical analysis, persuasive writing, and personal writing. Grammar is studied as is determined necessary for student writing.

0812-D Grade 12 English, British Literature (Dual Enrollment)

1.0 Credit (3.0 College Credits)

for students in grades 11 and 12) Twelfth grade English includes the study of British literature from the Anglo-Saxon period to the Twenty-First Century. Vocabulary is drawn from literary selections as well as from formal vocabulary programs. Composition includes the writing of and the study of the essay, critical analysis, persuasive writing, and personal writing. Grammar is studied as is determined necessary for student writing. ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

0817 A.P. Literature & Composition

1.0 Credit

An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The course includes intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. Reading in an AP course is both wide and deep. This reading necessarily builds upon the reading done in previous English courses. In their AP course, students read works from several genres and periods—from the sixteenth to the twenty-first century—but, more importantly, they get to know a few works well. They read deliberately and thoroughly, taking time to understand a work's complexity, to absorb its richness of meaning, and to analyze how that meaning is embodied in literary form. In addition to considering a work's literary artistry, students reflect on the social and historical values it reflects and embodies. Writing is an integral part of the AP English Literature and Composition course and exam. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays. Yearly, the AP English Literature Development Committee prepares a three-hour exam that gives students the opportunity to demonstrate their mastery of the skills and abilities previously described. The AP English Literature and Composition Exam employs multiple-choice questions that test the student's critical reading of selected passages. But the exam also requires writing as a direct measure of the student's ability to read and interpret literature and to use other forms of discourse effectively. Note: Taking the A.P. exam is voluntary and the cost is the responsibility of the students.

0816 ACE English Grade 12

1.0 Credit (3.0 College Credits)

This course, taught by STSD personnel in partnership with Corning Community College, is a college level course and appears as **English 105 and English 106 in the CCC catalog**. The course is an accelerated composition and literature study. **To receive college credit from Corning Community College students must pay a fee – see Guidance for details.**

0813-1 Journalism I

1.0 Credit

In this class, students will learn the basics of mass communications and photo journalism ethics, including projects involving press releases, photography, layout and design, and electronic scrapbooking. Students may produce and/or contribute to the students' activities report, the school newsletter, and the yearbook. **(This class does not meet requirement for English credit)**

0813-2 Journalism II

1.0 Credit

In this class, students will learn the basics of news broadcasting and photojournalism ethics, which will include reporting, photography, creating scripts, editorializing, and interviewing. Students may produce and/or contribute to the students' activities report, the school newsletter and the yearbook. Students may produce a thirty-minute television show to be aired on Channel 13 periodically with the assistance of the Video Productions students. **(This class does not meet requirement for English credit)**

0813-3 Journalism III

1.0 Credit

In this class, students will learn the basics of news reporting and photojournalism ethic via blogging and online newspaper technology; tasks will include reporting, editorializing, photography, layout and design interviewing. Students may produce and/or contribute to the students' activities report, the school newsletter and the yearbook. **(This class does not meet requirement for English credit)**

0814 Composition

1.0 Credit

This course will emphasize the writing process which involves pre-writing, writing, peer conferencing, rewriting, and publishing (sharing with an audience). The course will be a literature-based study in which students will be exposed to the skills needed to critically and independently analyze poetry, short stories, novels, and non-fiction writing. Emphasis in readings will be given to those which reflect a multi-cultural perspective. **(This class does not meet requirement for English credit)**

0815 Forensics

1.0 Credit

This course will develop students' skills in public speaking, oral interpretation, and debate. Students will be able to orally interpret various forms of literature, prepare and deliver speeches, prepare arguments and participate in formal debates. **(This class does not meet requirement for English credit)**

0810 Grade 10 English, World Literature

1.0 Credit

Tenth grade English is a balanced study of literature, language, and composition. A collection of culturally diverse literature is used to study the elements of the short story and the novel. The elements of drama are examined in a unit on William Shakespeare which includes the reading of *Julius Caesar*. English grammar is taught in the context of the students' writing. The organization of written text is examined in depth. ****KEYSTONE EXAM GIVEN FOR THIS COURSE (STARTING WITH CLASS OF 2017**)**

0811 Grade 11 English, Literature of the Americas

1.0 Credit

Eleventh grade English focuses on the study of American literature with a concentration on how literature reflects the society in which it was written. A selection of American novels supplements the literature text. Composition includes literary analysis, narratives, and the five paragraph essay. Grammar and mechanics are approached through application to a student's work and through the analysis and editing of the writing of others. Vocabulary studies are derived from literature as well as through a formal program.

0820 Theater

1.0 Credit

Theater is an introductory course which will include some history (as it relates to character development), vocal production, role playing, learning to develop a character, stage direction terminology, theater vocabulary, contrasting performance styles for musicals and drama or comedy. The technical aspects of sound, lighting, and set design may be included. **(This class does not meet requirement for English credit)**

Career Writing

1.0 Credit

This course is designed to improve the communication skills and career prospects for technology, focused careers. Students will learn how analyze and produce typical office documents, such as letters, memoranda, presentations, proposals, and reports. Through individual and collaborative projects, students will develop purpose driven messages that reflect the needs of professional audiences of various media, genres, and situations. Students will gain knowledge on how to enhance their marketability by learning about workplace writing such as revising fact sheets according to plain language principles, developing clear instructions, and conducting reporting on usability tests. **(This class does not meet requirement for English credit)**

2111 Video Technology

1.0 Credit

This course provides a basic introduction to video and media production and related communication skills. Camcorder operation, VCR operation and maintenance, non-linear and linear video editing, basic audio production, script writing, basic television broadcasting and lighting are the basic skill areas. Written and oral communications skills are emphasized

ENL111 English Composition I

3.0 Credits (3.0 Lecture Credits)

Fundamental writing and research skills with an emphasis on expository writing. Emphasis on analysis, discussion, and practice of writing that explores, explains, and argues. Course work includes a significant research component. *Prerequisite(s): Placement by Examination or ENL001.*

2214-D Sports and the Media

1.0 Credit (3 College Credits)

MU Course Name/Description: COM 2214 - Sports and the Media *Elective*

****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

1101-D Oral communication

1.0 Credit (3.0 College Credits)

Objectives are to help the student to formulate his/her own ideas coherently, evaluate factual material, and use sound reasoning patterns in his/her preparation and attempts to communicate concepts orally; to determine and select the most effective means of expression in formal and informal speaking situations. Required of all Mansfield students.

MU Name/Description: Com 1101- Oral communication **Elective, Not an English Credit **Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

Family & Consumer Science (09)

0909 Career Prep Portfolio

0.5 Credit

This course provides opportunities for students to identify and explore career interests. Students use personal assessments to identify the kinds of careers that they would like to explore, complete career research projects, explore the personal and educational requirements for their career paths, and continue to make connections between school and the work world through interviews and speakers. Students learn basic employability skills needed to seek and keep a job. They also develop their first showcase/career portfolios. Student portfolios can be used for other classes or projects in their future, and can be used to exhibit their skills and interests to college admissions personnel and employers. Portfolios are also part of the Health Careers Level II, and Career Exploration - Field Experience requirements. This course employs the PA. Reading, Speaking, and Writing Standards, and the proposed PA Career and Work Standards. Portfolios can be used for college or work placement.

0910 Housing & Interior Design

1.0 Credit

The focus of Housing and Interior Design is the home, which provides the setting for, and influenced the well-being and the development of individuals and families. Students will examine current housing needs and options for individuals and families throughout the lifecycle. Students will research current trends and issues in housing, furnishings and equipment. Students will apply knowledge, skills and principles in design to the living environment. Students will use this knowledge to select, purchase and arrange furnishing and equipment. The course will also look into homecare maintenance, safety and security. Opportunities will be available for students to explore related careers in housing and interior design, and develop a portfolio in these areas. Emphasis will be given to labs and portfolio projects.

0910E Housing & Interior Design

0.5 Credit

The focus of Housing and Interior Design is the home, which provides the setting for, and influences the well-being and development of individuals and families. Students will use principles of design to analyze and create interiors and furnishings that meet the needs of individuals and families. Opportunities will be available for students to explore related careers in housing and interior design, and begin to develop career portfolios in these areas. Emphasis will be given to labs and portfolio projects.

0911 Child Development I

1.0 Credit

This course is designed for all senior high students who interact (now or later) with children at home, school, and at work. The study of human development from birth through childhood (physical, social, emotional, and intellectual), child guidance, and resources to strengthen family life are included. The course also looks at the many decisions involved in parenting, distinguishing between parenting and parenthood, and the roles and responsibilities that apply to each. Students participate in the operation and management of the laboratory preschool at each high school. Instruction is given in developing age-appropriate activities for preschoolers, guidance techniques, and safety concerns.

0912 Child Development II

1.0 Credit

Students use the skills learned in Child Development I to prepare for careers in areas such as child care, guidance, early childhood education, and other occupations dealing with children. Students develop age-appropriate curriculum, activity centers, lesson plans, prepare nutritious food for children, interact with, and guide child behaviors in the preschool laboratory. Students continue to learn the processes of operating and managing the preschool, and gain experience in interacting with parents through interviews and newsletters.

0917 Foods

1.0 Credit

The purpose of this course is to teach basic concepts in skills in food preparation. The concepts will include nutrition, basic measurement, kitchen safety, recipe reading, equipment and tools, layout of a kitchen, and basic preparation of food. The goal of the course is to provide a framework for using creative and critical thinking skills to address optimal nutrition and wellness. The approach would incorporate hands on, real-life experiences to promote proper nutrition and safe and effective food preparation.

0917E Foods

0.5 Credit

Foods I introduces students to the basic concepts and skills in food preparation. Concepts will include a review of nutrition, basic measurement, recipe reading, and basic kitchen equipment and tools related to food preparation. The approach will focus on accurate and safe recipe preparation.

0914 Advanced Foods

1.0 Credit

Advanced foods, a second level culinary course, prepares students for gainful employment or post-secondary education in the food industry. This course provides laboratory experiences that focus on commercial food production, food selection, food storage, foods in other cultures, and related careers. Emphasis will be given to safe and sanitary practices, conversion skills, proper equipment use, quality service and commercial preparation in the kitchen. Students will also have an opportunity to explore different careers related to food production.

0914E Advanced Foods

0.5 Credit

The purpose of this course is to provide extended opportunities in the study of nutrition to meet the wellness needs of individuals and families across the life span. Advanced concepts in food selection, storage, and prep are integral to this course.

0920AC ACE Freshman Experience School Orientation (Dual Enrollment) 1.0 Credit (3.0 College Credits)

This course is for students planning to attend college. It facilitates intellectual and social integration of first-year students into the academic community. This course provides specific methods and strategies which students may adopt to promote personal growth and success both in the college environment and throughout life. **To receive college credit from Corning Community College students must pay a fee – see Guidance for details.**

EDU201 Health, Safety, and Nutrition for Early Childhood (Dual Enrollment) 1.0 Credit (3.0 Lecture Credits)
Study of the specific health and hygiene concerns of early childhood. Discussion includes common childhood diseases, chronic illnesses, disorders, and conditions, with emphasis on identification and management within an early childhood setting. Additional topics include assisting young children in the development of personal hygiene, safety skills, and nutrition education. State licensing regulations and community service agencies in health, safety, and nutrition are examined. **Prerequisite(s): EDU100.**

FHD118 Sanitation (Dual Enrollment) 1.0 Credit (1.0 Lecture Credits)
Principles for the prevention of food borne illness in the hospitality industry. Control measures are covered with emphasis on maintaining a sanitary foodservice operation through knowledge of biological and physical hazard issues. Hazard Analysis Critical Control Point (HACCP) fundamentals and steps for implementation are also covered. National certification exam is conducted as a part of this course.

Health Careers (14)

1411 Health Careers I 1.0 Credit
This course is designed for senior high students who are interested in exploring health related careers. Students study the scope of the health care industry and its occupations, personal qualities of health care workers, legal responsibilities, anatomy and physiology, medical terminology, human growth and development, geriatric care, health care skills, and the use of technology in health care.

1411E Health Careers I 0.5 Credit
This course is designed for senior high students who are interested in exploring health related careers. Students study the scope of the health care industry and its occupations, personal qualities of health care workers, legal responsibilities, anatomy and physiology, medical terminology, human growth and development, geriatric care, health care skills, and the use of technology in health care.

Industrial Arts (15)

1509 Industrial Arts III 1.0 Credit
This course will teach the fundamentals of drafting and design. The student will learn to use standard drafting equipment to produce project plans and orthographic projections. Lettering, section views, multi-views and drafting geometry are all concepts to be explored. The students will demonstrate their knowledge by producing assigned drawings. As the student progresses, he/she may move into Computer Aided Design.

1509E Industrial Arts III 0.5 Credit
This course will continue the concepts from IA 8. It will emphasize giving the students an overview of various technologies, including woodworking, electronics and robotics. A special emphasis will be placed upon an introduction into mechanical drawing, the language of industry. This course is a good introduction into computer aided drafting (CAD).

1510 Industrial Arts IV 1.0 Credit
This course is designed to develop an understanding of mass production concepts that are utilized in industry today. The class will design and produce a mass production project.

1510E Industrial Arts IV 0.5 Credit
This course is an introduction to woodworking. The course will look at topics pertaining to all aspects of woodworking. It will also stress safe utilization of tools and equipment used in a woodshop setting. The course will also talk about design and use cad to produce cuts on a CNC machine. The course will be assessed on successful completion of various assigned projects.

1511 Industrial Arts V 1.0 Credit
This course is designed to develop competence in the use of industrial equipment and terminology to produce advanced projects.

1511E Industrial Arts V

0.5 Credit

This course is designed to develop competence in the use of industrial equipment and terminology to produce advanced projects.

1512 Computer Aided Drafting CAD

1.0 Credit

Computer Aided Drafting (CAD) will introduce students to the diverse opportunities provided in the field of industrial mechanical drawing. Students will use computer aided drafting programs to develop skills and become proficient draftsmen/women. Lessons will include the use of drawing, modifying, detailing and transforming commands. Students may be required to reproduce an existing drawing and will be given a tangible object from which to produce a working drawing. Drawings will be three dimensional which requires a strong background in mathematical concepts. This level of learning and design is the beginning of engineering, and students will be expected to devise more than one part in an assembly that will function together as a working machine.

1512E Computer Aided Drafting CAD

0.5 Credit

This course will focus on various CAD programs primarily AutoCAD and sketch-up. Normal 2-d drawing up through solid modeling and rendering will be discussed. There will also be some assignments which use shop skills to demonstrate the application of this essential knowledge. This course is ideal for anyone interested building or engineering type careers or if you enjoy working with computers and learning cutting edge industry leading programs.

1513 Design Engineering

1.0 Credit

Design Engineering will introduce students to the exploration and application of engineering principles to various problem solving activities. Students will apply theoretical background to an applied environment. They will learn engineering concepts, applications, and occupations with an emphasis on problem solving and critical thinking. This course will investigate the impact of technology on society and investigate current trends in the engineering, business, manufacturing, and production sectors.

1513E Design Engineering

0.5 Credit

This course will work on the basics of drafting and design. It will have information on drafting programs as this is necessary to create designs. It will also have various problem solving activities that will push the students to use problem solving techniques to their fullest abilities. Some utilization of shop machinery and CNC machining will be required.

ACH135 Architectural Computer Aided Drafting

1.0 Credit (2.0 Lecture - 3.0 Lab)

Introduction and practical application of Computer-Aided Drafting (CAD) techniques and standards used to create two-dimensional architectural drawings. Focus on hardware and software components, operating systems, file management, CAD commands, system variables, drawing setup, creation of lines and shapes, and the editing, saving, and printing of drawings. Advanced topics include external references, layouts, paper space, attributes, dimensioning, text, and the creation of a symbols library. (Formerly ACH116/ACH118 combination)

BCT103 Construction Hand and Power Tools (Dual Enrollment)

1.0 Credit (1 College Credit)

Survey of hand and power tools typically used to perform construction work. Emphasis on the development of skills needed to effectively perform layout, measurement, cutting, fastening, and finishing operations. Study also includes maintenance of tools and equipment, safe use of hand and power tools, and emerging tool technology.

Mathematics (16)

1609 Algebra I

1.0 Credit

This class is the study of elementary algebra. Topics include operations with real numbers, algebraic expressions, equations in one variable, inequalities in one variable, systems of equations and inequalities, polynomials, factoring, graphing linear equations, probability, and data analysis. ****KEYSTONE EXAM GIVEN FOR THIS COURSE STARTING WITH CLASS OF 2017****

1609A Algebra A 1.0 Credit

This class is the study of fundamentals of algebra. Topics include basic operations of real numbers, algebraic expressions, equations in one variable, inequalities in one variable, systems of equations and inequalities, polynomials, factoring, graphing linear equations, probability and data analysis.

Students are required to take Algebra B upon completion of this course.

1609B Algebra B 1.0 Credit

This class is an extension of Algebra A and provides continued development of the study of fundamentals of algebra. Topics include basic operations of real numbers, algebraic expressions, equations in one variable, inequalities in one variable, systems of equations and inequalities, polynomials, factoring, graphing linear equations, probability and data analysis. ****KEYSTONE EXAM GIVEN FOR THIS COURSE STARTING WITH CLASS OF 2017****

1610 Geometry 1.0 Credit

The focus of modern geometry lies in the study of one, two, and three-dimensional shapes and how they relate in math theory and in practical application.

1611 Algebra II 1.0 Credit

Topics in this class will cover operations of algebra, properties of real numbers, linear and quadratic equations and graphs, inequalities, systems of equations, polynomials, radicals, and radical equations.

1614 Introductory Probability and Statistics 1.0 Credit

This is a basic course suited for a variety of students. Topics include gathering and interpreting numerical data: mean, median, and mode, permutations and combinations, random sampling and sampling distribution.

1614D Probability/Statistics (Dual Enrollment) 1.0 Credit (3.0 College Credits)

This is an introductory level statistics class with a primary focus on probability, inferential statistics, and regression analysis. Inferential statistics topics include confidence intervals and hypothesis tests for regression parameters, goodness of fit tests, ANOVA, and non-parametric tests. **MU Course Name/Description: MA 1126 – Inferential Statistics and Probability** ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

1615 Business Math 1.0 Credit

The students will become proficient in basic math skills common to business and finance. Students will explore career opportunities as they learn business and financial concepts. Mathematical concepts will be applied to promote an understanding of personal finance. **(Math credit will be given to Business Math when taught by a Math teacher. Business credit will be given to Business Math when taught by a Business teacher.)**

1616 AP Calculus AB 1.0 Credit

Calculus AB is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. The courses emphasize a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The course includes the in-depth study of functions, graphs, and limits; derivatives; and integrals. Students should have demonstrated mastery of material from courses covering the equivalent of four full years of high school mathematics before attempting calculus. These courses should include the study of algebra, geometry, coordinate geometry, and trigonometry, with the fourth year of study including advanced topics in algebra, trigonometry, analytic geometry, and elementary functions. The AP Calculus Development Committee recommends that calculus should be taught as a college-level course. With a solid foundation in courses taken before AP, students will be prepared to handle the rigor of a course at this level. Students who take an AP Calculus course should do so with the intention of placing out of a comparable college calculus course. This may be done through the AP Exam, a college placement exam, or any other method employed by the college. Note: Taking the A.P. exam is voluntary and the cost is the responsibility of the students.

1617 College Algebra 1.0 Credit

This course is for the college bound student. The topics that are covered are properties of real numbers, solving equations and inequalities, simplifying exponential and radical expressions, graphing and solving linear, quadratic, rational and polynomial functions, solving radical equations, solving systems of equations, inverse functions and graphing the conic sections.

1617-D College Algebra (Dual Enrollment)

1.0 Credit (3.0 College Credits)

(for students in grades 11 and 12) This course is for the college bound student. The topics that are covered are properties of real numbers, solving equations and inequalities, simplifying exponential and radical expressions, graphing and solving linear, quadratic, rational and polynomial functions, solving radical equations, solving systems of equations, inverse functions, graphing the conic sections, and an introduction to matrices. ***(Trigonometry is recommended prior to this course)*** ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

1618 Consumer Math

1.0 Credit

This course covers math geared toward the consumer: basic arithmetic, geometry in life (around the home, etc.), earning and saving money, checking account skills, taxes, consumer goods and services, travel, and transportation. ***(Algebra I is recommended prior to this course)***

1621 Survey of Mathematics

1.0 Credit

This course will provide course content emphasizing and reinforcing the fundamental concepts of Mathematics. It is intended that students will achieve proficiency in the areas of Basic Operations, Estimations, Measurement, Ratio, Algebra, Geometry, and Probability & Statistics.

1622C Calculus

1.0 Credit

This course covers the first semester of differential and integral single variable calculus. Basic theory using algebraic and trigonometric function and applications are covered concurrently. Topics include limits, derivatives, considered by algebraically and graphically, differentials and their use as approximations, the indefinite and definite integrals with applications to areas, volumes, surface area, arc length, moments and center of mass.

1620D Calculus II

1.0 Credit (4.0 College Credits)

The purpose of this course is to develop a good understanding of limit, continuity, the derivative and its uses (including modeling and solving problems), to introduce the definite integral, and to establish the important relationship between the derivative and the definite integral. In this context the course will examine different classes of functions numerically, symbolically, and graphically. This course is intended for mathematics, science, and engineering majors. (Addresses NCTM Standards 1 .5.8 and 1 .5.10 for Mathematics Education majors.) ***MU Course Name/Description: MA 2231 – Calculus I*** ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

1622 ACE Calculus

1.0 Credit (4.0 College Credits)

This course covers the first semester of differential and integral single variable calculus. Basic theory using algebraic and trigonometric function and applications are covered concurrently. Topics include limits, derivatives, considered by algebraically and graphically, differentials and their use as approximations, the indefinite and definite integrals with applications to areas, volumes, surface area, arc length, moments and center of mass. ***To receive college credit from Corning Community College students must pay a fee – see Guidance for details.***

Music (17)

1709 Music Appreciation

1.0 Credit

Love listening to all kinds of music? You have come to the right place! Have you ever wondered why you like the music that you like? Have you always wanted to learn more about your favorite singers and bands? This class will introduce you to musical concepts using the music you listen to every day! You will learn to use multiple software programs and real instruments to create, perform, edit, explore, and learn about all types of music. Basic concepts of music theory will be covered, as well as an introduction to the instrument of your choice and tons of listening to music!

1711 Senior High Chorus

0.5 Credit

Senior High Chorus is a performance ensemble open to all students in grades 7-12. Students will learn vocal music skills and technique, focusing on the following: proper breathing, vocal tone production, proper posture, range expansion, blend, good intonation, ear training, solfege, and music reading. Participation in various performances is a requirement of the class... (From this ensemble, select groups are organized and many opportunities for musical growth arise.)

1712 Band

0.5 Credit

Band is a performance ensemble for grades 7-12. Music is learned for usually two concerts a year. A variety of other opportunities for solo and ensemble playing is also provided through the band program. In addition to the learning that takes place through note reading drills, technical skill studies, and music interpretation; students learn to set goals and meet them, to work as part of a team, to be responsible for the instrument care, attend lessons, and practice.

1713 Music Theory

1.0 Credit

Music theory is a class that focuses on the “nuts and bolts” of music. Students will gain a deep understanding of melody, harmony, rhythm, chord structure, solfege (sight singing), ear training, and will also learn how to play the piano. For students who are interested in music careers, this class is a must!

1717 Music Production

1.0 Credit

This course will introduce students to the fundamentals of using hardware and software for producing music. The class will stress application and creative content, which will enable students to produce, edit, and perform music in real world settings. Students will be given the opportunity to not only experience these skills as the performing musician, but also be exposed to sound reinforcement and stage enhancement techniques. Students will have the opportunity to use these skills in authentic performance situations through DJing live events, running sound and lights for shows, and creating music and mixes for various events.

1713AC ACE Intro to Music Theory (Dual Enrollment)

1.0 Credit (4.0 College Credits)

This class is the same as the regular music theory class, except you get college credit! Sign up for the AC version of the class to receive 3 elective credits through Corning Community College. ***To receive college credit from Corning Community College students must pay a fee – see Guidance for details.***

3313 Electronic music

1.0 Credit (2.0 College Credit)

Survey of electroacoustic music technology with emphasis on MIDI applications. Provides hands-on experience with computer-based sequencing and music notation. **MU Course Name/Description MU 3313 – Electronic Music**
Elective* **Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees*

Physical Education (18)

1809 9th - 12th Grade Health & Physical Education

0.75 Credit

Physical Education at this level is designed to promote physical, mental, and social well-being of the student. At this level students will experience a variety of activities ranging from team sports, individual/lifetime sports, and fitness activities. Students will learn that physical activity is fun, yet understand the importance of cooperation, sportsmanship, and overall physical fitness. Healthy lifestyle choices, including proper nutrition and weight management; and the avoidance of drugs, alcohol, and tobacco are stressed.

Science (19)

1911 Ecology

1.0 Credit

This course covers the basic principles of environmental science as they affect the world around us. It includes learning to live on this planet without damaging or threatening our own existence in the process. Both biological and non-biological components are examined and a study of the interaction of these components is made.

1911E Ecology

0.5 Credit

This course covers the basic principles of environmental science as they affect the world around us. It includes learning to live on this planet without damaging or threatening our own existence in the process. Both biological and non-biological components are examined and a study of the interaction of these components is made.

1910A Biology A

1.0 Credit

First year will focus on the introductory processes of life in the terms of cellular organization, structure, chemistry, transportation, and respiration. The year will conclude with concepts pertaining to photosynthesis, energy transfer, and a minor introductory of ecological concept (diversity of ecosystems, communities, populations, energy flow and human impact).

1910B Biology B

1.0 Credit

Second year will continue with the focus on the introduction of ecological concepts of life in the terms of evolution and the reproductive factors influencing evolution. The year will conclude with concepts pertaining to gene and chromosome activity, the role of nucleic acids in protein synthesis, and genetic concepts applies to the 21st century careers and the ethical influences in today's society. Laboratory activities and demonstration throughout the year's course will be used to reinforce concepts pertaining to the key areas of focus within both first and second year course discussions.

1910AP AP Biology

1.0 Credit

Learn about core scientific principles, theories, and processes governing living organisms, biological systems, and natural phenomena. Understand key science practices you can use to develop explanations and predictions of natural phenomena, which you will test and refine through laboratory investigations. Develop advanced reasoning and inquiry skills as you design experiments, collect and analyze data using mathematics and other methods, and interpret that data to draw conclusions.

1912 Chemistry

1.0 Credit

Investigations into the world of matter begin in the classroom and continue into the lab. Students will begin with an in-depth study of atomic structure and the periodic table. Phases of matter will be explored at the molecular level, with an emphasis on the gas laws. Problem solving skills will be developed with the introduction of gram-mole calculations, chemical equation writing and stoichiometry concepts. Solution chemistry and acid/base reactions will round out the course. Laboratory investigations will introduce students to the scientific method, proper lab safety and techniques, and enhance classroom lectures. *(Algebra I is recommended prior to this course)*

1900C College Chemistry

1.0 Credit

Students in this advanced course investigate the same topics as the Chemistry course, enriched with college level content and lab investigations. Independent research is an integral part of this course. Students will study matter with an emphasis placed on reaction rates and thermodynamics, chemical equilibrium, precipitation reactions and nuclear chemistry. This course will also include an introduction to organic chemistry. Laboratory investigations will be highlighted.

1909 Earth Science

1.0 Credit

This course emphasizes earth and space science while integrating various other science disciplines. Subjects covered are basic astronomy, meteorology, oceanography, geology, aquatic chemistry, and basic ecology.

1909-D Earth Science (Dual Enrollment)

1.0 Credit (3.0 College Credits)

(For students in grades 11 and 12) This college level course available for 11th and 12th graders, emphasizes earth and space science while integrating various other science disciplines. Subjects covered are basic astronomy, meteorology, oceanography, geology, aquatic chemistry, and basic ecology. ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

1909E Earth Science

0.5 Credit

(1/2 year) This course is an overview of earth and space science while integrating various other science disciplines. Subjects covered are basic astronomy, meteorology, oceanography, geology, aquatic chemistry, and basic ecology.

1915 Anatomy

1.0 Credit

The content covered includes the integumentary, skeletal, and muscular systems of the body as well as cell structures, tissues, and articulations and biomechanics of body movement. Any student planning to obtain a degree in the medical field is advised to take this class.

1916 Physics

1.0 Credit

This is a trigonometry-based course that deals with the physics of motion, vectors, universal gravitation, momentum work, energy, and a basic introduction to electricity, magnetism, and optics. Students are required to write lab reports which include an introduction, hypothesis, list of materials, observations, calculations, and conclusions. *(The prerequisites for this course are Algebra I and II, Geometry, and Trigonometry)*

1914-D Physics (Dual Enrollment)

1.0 Credit (4.0 College Credits)

A one-year sequential calculus course discussing classical mechanics, fluids, thermodynamics, classical electricity and magnetism, optics and waves, modern physics. Application of physics to life science is made in problem and laboratory experimentation. **Prerequisites & Notes: Co-requisite: MA 2231.**

MU Course Name/Description: PHY 1191 – Physics I ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

1917 Applied Physics

1.0 Credit

Students cover these concepts: Fundamental math, measurement; straight line motion, graphical analysis of motion, Vectors; dynamics, momentum conservation, 2-dimensional motion, and gravitation; work and power, heat, energy, kinetic theory; gas laws; waves and energy transfer; light, reflection and refraction, mirrors and lenses, light diffraction; static electricity, electric currents, series and circuits; magnetic field, electromagnetic induction and field applications; quantum theory and atoms.

HRT101 Introduction to Ornamental Horticulture (Dual Enrollment)

1.0 Credit (1.0 Lecture Credit)

Overview of the diverse ornamental horticulture industry, including the worldwide scope and economic impact of the industry in today's marketplace. Emphasis on information access through the Internet, trade journals, trade organizations, the horticulture industry, guest speakers, and visitations to various horticultural businesses.

Exploration includes products, services, and information used in the industry; production and marketing (wholesale and retail) of horticultural products and services; and traditional and nontraditional career paths within the industry.

HRT113 Ornamental Plants (Dual Enrollment)

1.0 Credits (2.0 Lecture – 3.0 Lab Credits)

Introduction to the fields of study of horticulture. Outdoor identification of annuals, perennials, woody shrubs and trees, weeds, and wildflowers. The use of these plant materials in the landscape is stressed.

Social Studies (20)

1919-D Anthropology

1.0 Credit (3.0 College Credits)

Introduction to culture as a conceptual mode and to the variations in behavior systems found among human societies. Cultural institutions are examined including the process associated with their development and change. This course provides a basic introduction to cultural anthropology, the study of human cultural variation across time and space. It will follow an evolutionary framework in dealing with human cultural systems including kinship, social organization, political organization, language, economics, and religion. **MU Course Name/Description: ANH 1101 Cultural Anthropology**

2010 American History II

1.0 Credit

This course begins with a look at the early phases of US History including the War of 1812 and The Lewis and Clark Expedition. Further crucial topics on expansion include the Texas Revolution and the Mexican War. The watershed historical events that encompass the Civil War, its causes and Reconstruction after the Civil War are vital elements in the shaping of American History. Eastward expansion continues after the Civil War with the conflicts with Native Americans, The course continues with growth of industry in the late 1800s and the ensuing problems of industrialization and immigration. We study the early 1900s, the Progressive movement and immigration. US History II discusses America's brief international imperialism era of the Spanish American War. The course ends with American as a budding world power in World War I. M3 (9th Grade). **(American History I is recommended prior to this course)**

2010-D American History II (Dual Enrollment)

1.0 Credit (3.0 College Credits)

(For students in grades 11 and 12) This course begins with a look at Reconstruction after the Civil War and moves through the westward expansion, the conflicts with Native Americans, and the growth of industry in the late 1800s. We study the early 1900s, the Progressive movement and immigration, World War I, the 1920s, and the Great Depression. Several chapters are devoted to World War II and the ensuing Cold War with the Soviet Union. The course concludes with a study of contemporary events. **(American History I is recommended prior to this course)**

****students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

2010-3 American History III

1.0 Credit

The purpose of this course is to conduct an in depth study of United States history since 1919. The course discusses such vital historical eras from the Great Depression, World War Two, the Cold War and the American War on Terror. History III focuses on continuity and change during the last one hundred years of American history. M3 (10th Grade).

2011 World Cultures

1.0 Credit

Using current events and history to understand what is happening in today's world and why it is significant for young adults is the emphasis of this course. Within this paradigm there is a constant emphasis on the origins of diversity and the need for tolerance, respect, and involvement to successfully exist in our ever shrinking world. Major units included are an overview of America's changing worldview during the 20th century, problems to be faced in the 21st century, tolerance/diversity, and world hot spots.

2011-D World Cultures (Dual Enrollment)

1.0 Credit (3.0 College Credits)

For students in grades 11 & 12) Using current events and history to understand what is happening in today's world and why it is significant for young adults is the emphasis of this course. Within this paradigm there is a constant emphasis on the origins of diversity and the need for tolerance, respect, and involvement to successfully exist in our ever shrinking world. Major units included are an overview of America's changing worldview during the 20th century, problems to be faced in the 21st century, tolerance/diversity, and world hot spots. ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

2012 American Government

1.0 Credit

The course begins with a review of governmental concepts gained from our English heritage and describes the early attempts at union by the colonists, the framing of the Constitution, and an overview of that document and its amendments. Equality under the law and protections for those accused of crimes with emphasis on the 5th and 14th amendments are covered and the course ends with chapters on each branch of government and their roles, powers, and responsibilities. **(American History II is recommended prior to this course)**

2012-D American Government (Dual Enrollment)

1.0 Credit (3.0 College Credits)

(For students in grades 11 and 12) The course begins with a review of governmental concepts gained from our English heritage and describes the early attempts at union by the colonists, the framing of the Constitution, and an overview of that document and its amendments. Equality under the law and protections for those accused of crimes with emphasis on the 5th and 14th amendments are covered and the course ends with chapters on each branch of government and their roles, powers, and responsibilities. **(American History II is recommended prior to this course) **students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

2019 A.P. Government

1.0 Credit

Course content will include the following topics: constitutional underpinnings of the United States government; political beliefs and behaviors; political parties, interest groups and mass media; institutions of national government; public policy; and civil rights and civil liberties. Course work will give students an analytical perspective on government and politics in the United States. Students should become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. Students will know important facts, concepts, and theories pertaining to US government and politics; will understand typical patterns of political processes and behavior and their consequences; and will be able to analyze and interpret basic data relevant to US government and politics. They should be prepared for the AP exam consisting of multiple choice and free-response questions. Note: Taking the A.P. exam is voluntary and the cost is the responsibility of the students.

2013 Economics

1.0 Credit

The goal of this course is for students to demonstrate an understanding of basic economic concepts, and their roles as consumers, workers, business owners, investors and citizens. Topics to be discussed include global economic systems, the stock market, and the impact of political and social decision on the economy. The importance of investments and entrepreneurship will be emphasized. This course is for any students who will be entering the work force, and is strongly recommended for those pursuing any degree in business.

2013-D Economics (Dual Enrollment)

1.0 Credit (3.0 College Credits)

(For students in grades 11 7 12) This course is a study of the characteristics of the American System of Capitalism sometimes called the Free Enterprise System. There will be a focus on the terminology of economics as well as its many laws and principles. Students will do a comparative study of our economic system with other economic systems, past and present. They will become aware of the various roles we all play in our system as workers, investors, voters, and consumers. The importance of investment and entrepreneurship will be emphasized. This course is recommended for students with a good knowledge of American History. **(American History II is recommended prior to this course)** ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

2014 Geography

1.0 Credit

This course will give students an understanding of physical geography and how it relates to world issues today. Students will identify major landmasses, countries, bodies of water, major mountain ranges, and climatic environments.

2014E Geography

0.5 Credit

(1/2 year) This course is an overview of physical geography and how it relates to world issues today. Students will identify major landmasses, countries, bodies of water, major mountain ranges, and climatic environments.

2015 Psychology

1.0 Credit

This course will center on an introduction to psychological principles and include human and animal behavior. Areas covered will include learning, personality, socialization, sensation/perception, memory, and development.

2015-D Psychology (Dual Enrollment)

1.0 Credit (3.0 College Credits)

(For students in grades 11 and 12) This course will center on an introduction to psychological principles and include human and animal behavior. Areas covered will include learning, personality, socialization, sensation/perception, memory, and development ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

2016 Sociology

1.0 Credit

The course is an introduction to the basic concepts, ideas, and techniques in the scientific approach to the study of human cultures. There will be a focus on personal, group, and societal levels of modern America and World Cultures.

2016-D Sociology (Dual Enrollment)

1.0 Credit (3.0 College Credits)

(For students in grades 11 and 12) The course is an introduction to the basic concepts, ideas, and techniques in the scientific approach to the study of human cultures. There will be a focus on personal, group, and societal levels of modern America and World Cultures ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

0315-D Intro to Globalization (Dual Enrollment)

1.0 Credit (3.0 College Credits)

This course introduces the students to the increasing global interconnections between countries. These interconnections reveal themselves through economic, political, cultural, environmental, and trade issues. The course will expand students' understanding about the world economy and enhance their ability to grasp so many global issues reported in the media. Students can use this course as a gateway to choose among the many different programs offered by Mansfield University, including anthropology, business and women's studies. **MU Course Name/Description: BUS 1140 – Introduction to Globalization** ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

World Languages

1208 Spanish I

1.0 Credit

Spanish I is a basic course offered to students who have no previous Spanish language experience. It will include entry-level drills and materials to develop the four language skills: reading, writing, listening, and speaking. Materials will also be used to develop a student's cultural awareness of the countries that speak Spanish.

1209 Spanish II

1.0 Credit

Spanish II is a continuation of the Spanish I course procedures and methods. It will include a greater emphasis on the four language skills, using more advanced grammar and verb skills. Cultural awareness of Hispanic countries and their customs and traditions will be presented in greater detail through a variety of formats. (*Spanish I is recommended prior to this course*)

SPAI-D Spanish I-D (Dual Enrollment)

1.0 Credit (3.0 College Credits)

For students who have not previously studied Spanish. Fundamentals of grammar, intensive drill in pronunciation, comprehension, and speaking. Two hours language laboratory required weekly. **MU Course Name/Description: SPA 1101 – Introductory Spanish I** ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

SPAII-D Spanish II-D (Dual Enrollment)

1.0 Credit (3.0 College Credits)

Continuation of SPA 1101, two hour language laboratory weekly. **MU Course Name/Description: SPA 1102 – Introductory Spanish II** ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

1210 Spanish III

1.0 Credit

Spanish III will involve more complex structures of Spanish grammar and an intensive presentation of all of the indicative verb tenses. Greater cultural awareness of geography, history, and current social topics will be studied through a variety of Spanish language materials which require more advanced usage of the four language skills. Students at this level should acquire a command of the key vocabulary and structures necessary for personal communication within the Spanish-speaking world. (*Spanish II is recommended prior to this course*)

1211 Spanish IV

1.0 Credit

Spanish IV will have a mini-course format. Each marking period we will study and stress a particular Spanish language topic. Such topics might include but are not be limited to: current events in Spanish language periodicals, Spanish short story selections, biographies of important Hispanic people, creative writing, and independent study by appointment. (*Spanish III is recommended prior to this course*)

1008-D Introductory French I-D (Dual Enrollment)

1.0 Credit (3.0 College Credits)

For students in grades 11 and 12) For beginning students and those with less than two years of high school French. Emphasis is on grammar, pronunciation drills, aural comprehension, speaking, reading, and writing with language lab. ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

1009-D French II – D (Dual Enrollment)

1.0 Credit (3.0 College Credits)

(For students in grades 11 and 12) Continuation of 1101 with language lab. Prerequisites & Notes: Prerequisite: FR 1101 or equivalent ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

GER1-D Introductory German I-D (Dual Enrollment)

1.0 Credit (3.0 College Credits)

(For students in grades 11 and 12) For beginning students and those with less than two years of high school German who wish to review their knowledge starting from the very beginning. Students will learn the most basic communicative skills and will be able to greet people, give personal information, and otherwise form simple sentences and ask questions. Skills are all taught from a cultural emphasis and include pronunciation and speaking, listening comprehension, reading, writing proper structures. Online language laboratory and other exercises are required weekly. ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

GERII-D German II – D (Dual Enrollment)

1.0 Credit (3.0 College Credits)

(For students in grades 11 and 12) Continuation of 1101. This course is appropriate for students who have had 1 or 2 years of high school German. Students will strengthen skills in all areas and should be able to survive in a German-speaking environment at a minimum level by the end of the course. Online language laboratory and other exercises are required weekly. Prerequisites & Notes: Prerequisite: GER 1101 or equivalent. ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

Additional Course Offerings

0401 Academic Skills Support

1.0 Credit

This program is designed for students with Individualized Education Programs (IEP) that identify the need for interdisciplinary support in order to progress through the regular education curriculum. A student may access this course each semester and receive one credit each time the course is completed.

0913 Career Exploration - Field Experience

1.0 Credit

This course is designed to help students learn more about the importance of work in our society. The course includes the study of future work trends from local as well as global perspectives, explore education and training options, and participate in activities to help identify personal and career goals. Students will continue to develop career plan portfolios. Work related communications skills will be emphasized. Students are placed in work sites via internships, apprenticeships or cooperative education experiences.

0913E Career Exploration - Field Experience

0.5 Credit

This course is designed to help students learn more about the importance of work in our society. The course includes the study of future work trends from local as well as global perspectives, explore education and training options, and participate in activities to help identify personal and career goals. Students will continue to develop career plan portfolios. Work related communications skills will be emphasized. Students are placed in work sites via internships, apprenticeships or cooperative education experiences.

Independent Study

1.0 Credit

An Independent Course of Study is available upon the approval of the School Board, the recommendation from the Superintendent, and compliance with School Board Policy #118. Prior consultations resulting in a recommendation to the Superintendent may include the student, parent(s), relevant staff, counselors, and the principal.

0821 English as a Second Language (ESL)

1.0 Credit

This course is designed for English Language Learners whose ability to communicate, comprehend and express themselves through writing in the English Language is not at a proficient and fluent level. This course is offered in lieu of English courses when the level of English Language Proficiency dictates this need, as measured in the annual assessment of English Language Learners.

DUAL ENROLLMENT PROGRAM

Southern Tioga has multiple dual enrollment agreements with local institutions of higher education including Mansfield University, Pennsylvania College of Technology, and. The Dual Enrollment Program allows students to matriculate in certain identified college courses while in high school. Dual (high school and college) credit is awarded for successful completion of courses. Dual Enrollment is open to juniors and seniors who are in good academic standing based on criteria set by the Dual Enrollment Committee. Students who are interested should see their guidance counselors for details.

Pennsylvania College of Technology: Penn College NOW is a *nationally accredited* dual enrollment program that features Pennsylvania College of Technology courses taught by approved teachers in the home school. Learn more by visiting k12.pct.edu/penncollegenow

ACC133 Introduction to Financial Accounting

1.0 Credit (3.0 Lecture Credits)

Basic principles and applications of financial accounting for business students. Preparation and interpretation of financial information are emphasized. Course work provides the accounting knowledge necessary for success in more advanced accounting courses and in the business field.

ACH135 Architectural Computer Aided Drafting 1.0 Credit1 (2.0 Lecture – 3.0 Lab Credits)

Introduction and practical application of Computer-Aided Drafting (CAD) techniques and standards used to create two-dimensional architectural drawings. Focus on hardware and software components, operating systems, file management, CAD commands, system variables, drawing setup, creation of lines and shapes, and the editing, saving, and printing of drawings. Advanced topics include external references, layouts, paper space, attributes, dimensioning, text, and the creation of a symbols library. (Formerly ACH116/ACH118 combination)

BCT103 Construction Hand/Power Tools 1.0 Credit (3.0 Lab Credits)

Survey of hand and power tools typically used to perform construction work. Emphasis on the development of skills needed to effectively perform layout, measurement, cutting, fastening, and finishing operations. Study also includes maintenance of tools and equipment, safe use of hand and power tools, and emerging toll technology.

BWM150 Introduction to Web Page Development 1.0 Credit (3.0 Lecture Credits)

Introductory coverage of the Internet and online Web technologies. Skills learned include how to plan, create, and maintain static Web pages. (Formerly CIT150) **Prerequisite(s): Placement by Examination or MTH004 and Placement by Examination or RDG111.**

CAD120 AutoCAD – Comprehensive 1.0 Credit (2.0 Lecture – 3.0 Lab Credits)

Comprehensive application of 2D and 3D techniques using AutoCAD® software. Topics include the generation, editing, and analysis of geometry in alignment with industry standards with an emphasis on productivity. **Spring Only.**

CAD122 3-D Parametric Modeling Using Autodesk Inventor® 1.0 Credit (2.0 Lecture – 3.0 Lab Credits)

Study and application of solid and surface modeling using Autodesk Inventor® parametric modeling software. Topics include the generation and editing of mechanical parts and assemblies, analysis of mass properties, rendering and animation, and the development of physical models using rapid prototyping (additive manufacturing) equipment. Also included are basic 3D-to-2D documentation techniques.

CIT112 Introduction to Gaming and Simulation 1.0 Credit (3.0 Lecture Credits)

Introductory topics include gaming industry history, game development processes, game genres, storyboarding, game environment, character design, interface design, game play, AI, the psychology of game design, and professionalism. Study provides overall view of the gaming and simulation components. Practical hands-on application includes using a simple game design environment to design and write simple games. **Prerequisite(s): CSC124**

CSC124 Information, Technology, and Society 1.0 Credit (3 Lecture Credits)

Introduction to the basic concepts and applications of computer and Internet-related information technology and its impacts on individual users, businesses, groups, organizations, and society. Topics include access, evaluation, and use of digital information; ethical and security implications of information use and storage; human-computer interactions; social aspects of information systems; economic and legal issues; and professional presentation and communication of information. Information literacy skills that promote lifelong learning are developed through exposure to various existing and emerging technologies, including information resources, communication methods, and technology **Prerequisite(s): Placement by Examination or RDG111.**

EET124 Engineering, Technology, and Society 1.0 Credit (2.0 Lecture – 3.0 Lab Credits)

Introduction to the basic concepts and applications of computer and engineering technologies and the effects on professional and casual users, their employers and employees, and society. Applied skills include the use of current computer technology for data/information collection and organization; visualization, analysis, and interpretation of numeric computations; and the dissemination and presentation of solutions to engineering technology problems.

EDU 100 Child Development 1.0 Credit (3.0 Lecture Credits)

Overview of typical growth and development of young children from birth to age eight. Cognitive, language, physical growth, gross and fine motor, emotional and social developmental milestones are the focus of this course, with a special emphasis on the implications they have for the care and education of young children. Other topics include an introduction to the basic concepts of major developmental theories; principles of learning and development; and developmentally appropriate practice. A strong focus on a family-centered approach is integrated throughout the course.

EDU201 Health, Safety, and Nutrition for Early Childhood **1.0 Credit (3.0 Lecture Credits)**
Study of the specific health and hygiene concerns of early childhood. Discussion includes common childhood diseases, chronic illnesses, disorders, and conditions, with emphasis on identification and management within an early childhood setting. Additional topics include assisting young children in the development of personal hygiene, safety skills, and nutrition education. State licensing regulations and community service agencies in health, safety, and nutrition are examined. **Prerequisite(s): EDU100.**

ENL111 English Composition I **1.0 Credit (3.0 Lecture Credits)**
Fundamental writing and research skills with an emphasis on expository writing. Emphasis on analysis, discussion, and practice of writing that explores, explains, and argues. Course work includes a significant research component. **Prerequisite(s): Placement by Examination or ENL001.**

FHD118 Sanitation **1.0 Credit (1.0 Lecture Credits)**
Principles for the prevention of food borne illness in the hospitality industry. Control measures are covered with emphasis on maintaining a sanitary foodservice operation through knowledge of biological and physical hazard issues. Hazard Analysis Critical Control Point (HACCP) fundamentals and steps for implementation are also covered. National certification exam is conducted as a part of this course.

HIS115 World Civilization I **1.0 Credit (3.0 Lecture Credits)**
Study of the history of humanity from its beginnings to C.E. (Common Era) 1500. Equal emphasis on the political, economic, and social development of Western and non-Western civilizations. (Cultural Diversity) **Fall Only.**

HRT101 Introduction to Ornamental Horticulture **1.0 Credit (1.0 Lecture Credit)**
Overview of the diverse ornamental horticulture industry, including the worldwide scope and economic impact of the industry in today's marketplace. Emphasis on information access through the Internet, trade journals, trade organizations, the horticulture industry, guest speakers, and visitations to various horticultural businesses. Exploration includes products, services, and information used in the industry; production and marketing (wholesale and retail) of horticultural products and services; and traditional and nontraditional career paths within the industry.

HRT113 Ornamental Plants **1.0 Credits (2.0 Lecture – 3.0 Lab Credits)**
Introduction to the fields of study of horticulture. Outdoor identification of annuals, perennials, woody shrubs and trees, weeds, and wildflowers. The use of these plant materials in the landscape is stressed.

Mansfield University Dual Enrollment Courses: a concurrent enrollment program in which high school students take Mansfield University courses on MU Campus, earning college credit through MU and graduation credit through STSD. Learn more here admissions.mansfield.edu. ****Students opting to take dual enrollment courses are responsible to register for classes through university admissions office and pay highly reduced university tuition/fees****

0213-D Art History (Dual Enrollment) **1.0 Credit (3.0 College Credits)**
Overview of the dominant movements and ideas in art and architecture from the 1880's to 1970. Includes Impressionism, Post-Impressionism, symbolism, Art Nouveau, Fauvism, German Expressionism, Cubism, Futurism, Dada, Surrealism, Supremacism, Constructivism, De Stijl, Abstract Expressionism, Color-Field, Minimalism, Pop, Realism, and Superrealism. **MU Course Name/Description: ARH 3331 – History of Modern Art**
Prerequisites & Notes: ARH 1101 or ARH 1102.

0318-D Personal Financial Planning **1.0 Credit (3.0 College Credits)**
The focus of this course is to provide financial decision making tools and techniques of money management. The course will analyze handling of financial records, financing of home and automobiles, financing of education, estate and retirement planning. **MU Course Name/Description: BUS 2202 – Personal Finance**

0811-D Grade 11 Literature of America **1.0 Credit (3.0 College Credits)**
An introductory level course for the non-English major to develop interpretive and critical-analytical skills, cultural understanding, and enjoyment of literature through selected reading in American Literature. **MU Course Name/Description: ENG 2208 – Readings in American Literature**

0812-D Grade 12 British Literature **1.0 Credit (3.0 College Credits)**
Survey of major British literature from Beowulf through Neoclassicism. **MU Course Name/Description: ENG 3269 0 Survey of British Literature I**

0818-D Composition **1.0 Credit (3.0 College Credits)**
Intensive reading and writing of expository prose. Analytical and critical thinking and college-level research skills are emphasized. **MU Course Name/Description: ENG 1112 – Composition I**

1008-D Introductory French I **1.0 Credit (3.0 College Credits)**
For beginning students and those with less than two years of high school French. Emphasis is on grammar, pronunciation drills, aural comprehension, speaking, reading, and writing with language lab. **MU Course Name/Description: FR 1101 – Introductory French I**

1009-D French II **1.0 Credit (3.0 College Credits)**
Continuation of French 1101 with language lab. **MU Course Name/Description: FR 1102 – Introductory French II**

1101-D Oral communication **1.0 Credit (3.0 College Credits)**
Objectives are to help the student to formulate his/her own ideas coherently, evaluate factual material, and use sound reasoning patterns in his/her preparation and attempts to communicate concepts orally; to determine and select the most effective means of expression in formal and informal speaking situations. Required of all Mansfield students.
MU Name/Description: Com 1101- Oral communication **Elective, Not an English Credit**

1614-D Probability/Statistics **1.0 Credit (3.0 College Credits)**
This is an introductory level statistics class with a primary focus on probability, inferential statistics, and regression analysis. Inferential statistics topics include confidence intervals and hypothesis tests for regression parameters, goodness of fit tests, ANOVA, and non-parametric tests. **MU Course Name/Description: MA 1126 – Inferential Statistics and Probability**

1617-D College Algebra **1.0 Credit (3.0 College Credits)**
Review of ideas in basic algebra, graphs, equations, inequalities, and strong emphasis on functions (general, polynomial, rational, exponential and logarithmic). **MU Course Name/Description: MA 1128 – College Algebra**

1620-D Calculus II **1.0 Credit (4.0 college Credits)**
The purpose of this course is to develop a good understanding of limit, continuity, the derivative and its uses (including modeling and solving problems), to introduce the definite integral, and to establish the important relationship between the derivative and the definite integral. In this context the course will examine different classes of functions numerically, symbolically, and graphically. This course is intended for mathematics, science, and engineering majors. (Addresses NCTM Standards 1 .5.8 and 1 .5.10 for Mathematics Education majors.) **MU Course Name/Description: MA 2231 – Calculus I**

1909-D Earth Science **1.0 Credit (3.0 College Credits)**
A descriptive astronomy course concerning contemporary astronomical and astrophysical theories about the solar system. **MU Course Name/Description: AST 1105 – The Exploration of the Solar System**

1914-D Physics **1.0 Credit (4.0 College Credits)**
A one-year sequential calculus course discussing classical mechanics, fluids, thermodynamics, classical electricity and magnetism, optics and waves, modern physics. Application of physics to life science is made in problem and laboratory experimentation. **MU Course Name/Description: PHY 1191 – Physics I**
Prerequisites & Notes: Co-requisite: MA 2231.

1919-D Anthropology

1.0 Credit (3.0 College Credits)

Introduction to culture as a conceptual mode and to the variations in behavior systems found among human societies. Cultural institutions are examined including the process associated with their development and change. This course provides a basic introduction to cultural anthropology, the study of human cultural variation across time and space. It will follow an evolutionary framework in dealing with human cultural systems including kinship, social organization, political organization, language, economics, and religion. **MU Course Name/Description: ANH 1101 Cultural Anthropology**

2010-D American History II

1.0 Credit (3.0 College Credits)

A continuation of 2201, covering significant trends and events in the rise of modern industrial America, its emergence as a world power and events into the 21st century. **MU Course Name/Description: HST 2202 – United States History Since 1877**

2011-D World Cultures

1.0 Credit (3.0 College Credits)

A survey of the cultural, political, economic, and social forces that have shaped world history since 1900, with particular emphasis on global historical trends. **MU Course Name/Description: HST 1113 – World History Since 1900**

2012-D American Government

1.0 Credit (3.0 College Credits)

An introductory course on the major institutions and processes of the U.S. political system. Topics discussed include the principles of governance, separation of powers, checks and balances, federalism, civil rights and liberties, policy making. **MU Course Name/Description: PSC 2201 – Introduction to American Government**

2013-D Economics

1.0 Credit (3.0 College Credits)

An introduction to aggregate economics with emphasis on interdependence of sectors of an economy, aggregate concepts, determination of national income and fiscal and monetary policy of stabilization. **MU Course Name/Description: ECO 1101 – Principles of Macroeconomics**

2015-D Psychology

1.0 Credit (3.0 College Credits)

Designed to familiarize students with the application of scientific psychology to human life. Emphasis is on “normal” behavior and its antecedents. Includes the study of broad categories of human behavior through various psychological models. **MU Course Name/Description: PSY 1101 – Introduction to General Psychology**

2016-D Sociology

1.0 Credit (3.0 College Credits)

Introduction to the basic concepts, premises, and techniques involved in the scientific approach to the study of human societies. Analysis is made of selected aspects of social behavior at interpersonal, intergroup, and societal levels. Global perspectives are explored. **MU Course Name/Description: SOC 1101 – Introduction to Sociology**

2214-D Sports and the Media

1.0 Credit (3 College Credits)

MU Course Name/Description: COM 2214 - Sports and the Media *Elective*

3313 Electronic music

1.0 Credit (2.0 College Credit)

Survey of electroacoustic music technology with emphasis on MIDI applications. Provides hands-on experience with computer-based sequencing and music notation. **MU Course Name/Description MU 3313 – Electronic Music *Elective***

GER1-D Introductory German I

1.0 Credit (3.0 College Credits)

For beginning students and those with less than two years of high school German who wish to review their knowledge starting from the very beginning. Students will learn the most basic communicative skills and will be able to greet people, give personal information, and otherwise form simple sentences and ask questions. Skills are all taught from a cultural emphasis and include pronunciation and speaking, listening comprehension, reading, writing proper structures. Online language laboratory and other exercises are required weekly. **MU Course Name/Description: GER 1101 Introductory German**

GERII-D German II – D

1.0 Credit (3.0 College Credits)

Continuation of GER 1101. This course is appropriate for students who have 1 or 2 years of high school German. Students will strengthen skills in all areas and should be able to survive in a German-speaking environment at a minimum level by the end of the course. Online language laboratory and other exercises are required weekly. **MU Course Name/Description: GER 1102 – Introductory German II**

SPAI-D Spanish I-D **1.0 Credit (3.0 College Credits)**
For students who have not previously studied Spanish. Fundamentals of grammar, intensive drill in pronunciation, comprehension, and speaking. Two hours language laboratory required weekly. **MU Course Name/Description: SPA 1101 – Introductory Spanish I**

SPAII-D Spanish II-D **1.0 Credit (3.0 College Credits)**
Continuation of SPA 1101, two hour language laboratory weekly. **MU Course Name/Description: SPA 1102 – Introductory Spanish II**

0315-D Intro to Globalization – Dual **1.0 Credit (3.0 College Credits)**
This course introduces the students to the increasing global interconnections between countries. These interconnections reveal themselves through economic, political, cultural, environmental, and trade issues. The course will expand students' understanding about the world economy and enhance their ability to grasp so many global issues reported in the media. Students can use this course as a gateway to choose among the many different programs offered by Mansfield University, including anthropology, business and women's studies. **MU Course Name/Description: BUS 1140 – Introduction to Globalization**

Corning Community College: Accelerated College Education (ACE) is a concurrent enrollment program in which high school students take CCC courses at their own high school, earning college credit through CCC and graduation credit through STSD. <https://www.corning-cc.edu/ace>

ACE Program Courses:

Corning Community College's (CCC) Accelerated College Education Program (A+CE) is offered in the Southern Tioga School District. Students have the opportunity to access courses taught by district personnel who are also approved CCC adjunct faculty. Students have the opportunity to experience highly challenging college level curriculum in their home school while earning credits at a minimal tuition. A+CE course offerings will vary from school to school and from year to year depending on student requests.

0325AC ACE Accounting **1.0 Credit (4 College Credits)**
Vocabulary and concepts of accounting and bookkeeping for the small business. Provides some knowledge of accounting for working in a business environment and some skills to do the accounting in a small business organization. **Corning Community College Course Name/Description: ACCT 1000 Accounting Practices**

0323AC ACE Financial Accounting **1.0 Credit (4 College Credits)**
Theories, principles, and procedures related to financial or general accounting. Generally accepted accounting principles as they relate to the valuation of assets and equities and the measurement of accrual-based income. **Corning Community College Course Name/Description: ACCT 1030 Financial Accounting**

0322AC ACE Computer Literacy and Micro Computing **1.0 Credit (4 College Credits)**
Student will complete projects integrating spreadsheets, databases, word processing, and graphic presentations with embedding and linking applications. Graphical User Interface (Windows operating system) will be utilized throughout the semester. Hardware analysis, operating system comparison, binary numbers system manipulation, and telecommunications and network technology literacy will be studied. **Corning Community College Course Name/Description: CSIT 1390 Computer Literacy & Microcomputer Applications**

0324AC ACE Website Development **1.0 Credit (4 College Credits)**
Web page development techniques using HTML, XHTML, and web site authoring software. Presents skills necessary to build, deploy, and manage professional web pages. Topics include basic tags and more advanced features while emphasizing accessibility, compatibility, security, and emerging Internet trends. **Corning Community College Course Name/Description: CSWT 1200 Web Site Development Fundamentals**

0816 ACE English 12 **1.0 Credit (4 College Credits)**
Essay writing designed to sharpen the student's perceptions of the worked through the study and use of non-fiction writings and to facilitate communications with correctness, clarity, unity, organization, and depth. Assignments include expository writing, argumentation, and research techniques. **Corning Community College Course Name/Description: ENGL 101 College Composition I**

0920AC ACE Freshman Experience

1.0 Credit (4 College Credits)

This course facilitates intellectual and social integration of first-year students into the academic community. The course provides specific methods and strategies which students may adopt to promote personal growth and success both in the college environment and throughout life. **Corning Community College Course Name/Description: FYEX 1000 First-Year Experience**

1622 ACE Calculus

1.0 Credit (4 College Credits)

The first semester of differential and integral single variable calculus. Basic theory using algebraic and trigonometric function and applications are covered concurrently. Topics include limits, derivatives, considered by algebraically and graphically, differentials and their use as approximations, the indefinite and definite integrals with applications to areas, volumes, surface area, arc length, moments and center of mass. **Corning Community College Course Name/Description: MATH 1610 Calculus I**

0713AC ACE Intro to Music Theory

1.0 Credit (4 College Credits)

Music notation, scales, modes, keys, intervals, simple chord progressions, elementary sight singing, and elementary keyboard accompaniment using primary chords. **Corning Community College Course Name/Description: MUSIC 1110 Introduction to Theory**

AP Courses

0817 AP English Language and Composition

1.0 Credit

An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The course includes intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. Reading in an AP course is both wide and deep. This reading necessarily builds upon the reading done in previous English courses. In their AP course, students read works from several genres and periods—from the sixteenth to the twenty-first century—but, more importantly, they get to know a few works well. They read deliberately and thoroughly, taking time to understand a work's complexity, to absorb its richness of meaning, and to analyze how that meaning is embodied in literary form. In addition to considering a work's literary artistry, students reflect on the social and historical values it reflects and embodies. Writing is an integral part of the AP English Literature and Composition course and exam. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays. Yearly, the AP English Literature Development Committee prepares a three-hour exam that gives students the opportunity to demonstrate their mastery of the skills and abilities previously described. The AP English Literature and Composition Exam employs multiple-choice questions that test the student's critical reading of selected passages. But the exam also requires writing as a direct measure of the student's ability to read and interpret literature and to use other forms of discourse effectively. Note: Taking the A.P. exam is voluntary and the cost is the responsibility of the students.

1616 AP Calculus AB

1.0 Credit

Calculus AB is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. The courses emphasize a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The course includes the in-depth study of functions, graphs, and limits; derivatives; and integrals. Students should have demonstrated mastery of material from courses covering the equivalent of four full years of high school mathematics before attempting calculus. These courses should include the study of algebra, geometry, coordinate geometry, and trigonometry, with the fourth year of study including advanced topics in algebra, trigonometry, analytic geometry, and elementary functions. The AP Calculus Development Committee recommends that calculus should be taught as a college-level course. With a solid foundation in courses taken before AP, students will be prepared to handle the rigor of a course at this level. Students who take an AP Calculus course should do so with the intention of placing out of a comparable college calculus course. This may be done through the AP Exam, a college placement exam, or any other method employed by the college. Note: Taking the A.P. exam is voluntary and the cost is the responsibility of the students.

1910AP AP Biology

1.0 Credit

Learn about the core scientific principles, theories, and processes governing living organisms, biological systems, and natural phenomena. Understand key science practices you can use to develop explanations and predictions of natural phenomena, which you will test and refine through laboratory investigations. Develop advanced reasoning and inquiry skills as you design experiments, collect and analyze data using mathematics and other methods, and interpret that data to draw conclusions.

2019 AP Government

1.0 Credit

Course content will include the following topics: constitutional underpinnings of the United States government; political beliefs and behaviors; political parties, interest groups and mass media; institutions of national government; public policy; and civil rights and civil liberties. Course work will give students an analytical perspective on government and politics in the United States. Students should become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. Students will know important facts, concepts, and theories pertaining to US government and politics; will understand typical patterns of political processes and behavior and their consequences; and will be able to analyze and interpret basic data relevant to US government and politics. They should be prepared for the AP exam consisting of multiple choice and free-response questions. Note: Taking the A.P. exam is voluntary and the cost is the responsibility of the student.