ACADEMIC & CAREER PLANNING GUIDE

2017-2018

CREATE YOUR VOYAGE

- ACADEMIC & CAREER PLANNING INFORMATION
- PROGRAMS OF STUDY
- COURSE OFFERINGS
- CAREER-BASED LEARNING

SCHOOL DISTRICT OF MARSHFIELD |1010 E. FOURTH STREET, MARSHFIELD, WI 54449

SCHOOL DISTRICT OF MARSHFIELD

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Address: 1010 E 4th Street; Phone: 715-387-1101; Website: www.marshfieldschools.org

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425 W Upham Street
Marshfield, WI 54449
Phone: 715-384-4747

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11044 US Highway 10
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Washington Elementary School
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Marshfield Middle School
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CTE Coordinator

Jennifer Fredrick (High School)
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NONDISCRIMINATION

The School District of Marshfield is committed to equal educational opportunity for all students in the District. It is the policy of Marshfield schools, pursuant to s. 118.13, Wis. Stats, and PI9 that no person may be denied admission to any district school or be denied participation in, be denied the benefits of or be discriminated against in any curricular, extracurricular, pupil services, recreational or other program or activity because of the person's sex, race, religion, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation or physical, mental, emotional or learning disability.

VISION OF OUR GRADUATE

All students will graduate "College and Career Ready" which means they will:

- Understand how their unique strengths and interests align to a wide variety of future opportunities
- Prepare and maintain a personal plan for goal attainment that provides flexibility based on individual experiences
- Develop a general understanding of how the problem-solving process has been applied to innovate, invent, design, and build products and systems in a variety of environments/industries
- Effectively be able to navigate both the world of higher education and employment to support a transition to adulthood
- Possess confidence in their level of mastery of the following in relation to their personal and career goals:

Knowledge:

- Core subject areas
- Global, civic, environmental, financial, health, media literacy
- Career
- Technical

Dispositions:

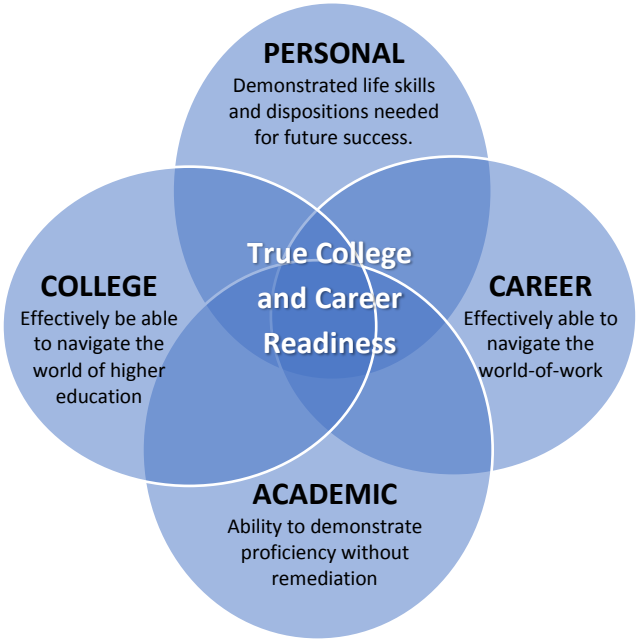
- Productive self-concept
- Effective self-management
- Effective organizational and social behavior
- Growth mindset (creativity, innovation, perseverance)
- Values life-long learning

Skills:

- Academic
- Critical thinking, problem solving
- Proper access, analysis and application of information
- Proficient use of technology
- Ability to collaborate and effectively communicate
- Technical

We Support the Vision of our Graduate by:

- Providing developmentally appropriate opportunities to learn and demonstrate required/desired knowledge, skills and dispositions
- Guiding all students through the academic and career planning process
- Supporting students as they strive to master required desired coursework
- Encouraging active engagement in extra-curricular activities and career-based learning programs
- Collaborating with partners to provide exposure to a wide range of industries and careers
- Aligning curriculum to a variety of post-secondary opportunities



ACADEMIC & CAREER PLANNING GUIDE

This guide was designed to support each student in creating his/her personal Academic & Career Plan (ACP). All sections of this guide are related.

ACADEMIC & CAREER PLAN INFO

- Students in grades 6-12 explore an Academic & Career Plan to guide their middle and high school learing experiences and set goals for themselves. The Academic & Career Planning process helps students connect what they are learning today to their post-high school plans.

PROGRAMS OF STUDY

- Programs of Study allow students to explore courses and learning experiences that support various Programs of Study. Student may choose to take courses in several different Programs of Study.

COURSE OFFERINGS

- Course Offerings are listed by department. Each listing includes the course length, number of credits offered, prerequisites, Programs of Study it is aligned to, and if the course offers college credit or includes an industy credential.

CAREER-BASED LEARNING

- Career-based learning allows students to explore different career areas and the world-of-work. Through this program, students gain employability skills while earning credit for their work experience.

TABLE OF CONTENTS

COMPONENTS OF ACP

Each student's Academic and Career Plan documents his/her unique personal, academic, social and career goals and the action plans to achieve those goals. Below are components of an Academic and Career Plan:

Course Plan
- Course Selections

Career-Based Learning Experiences
- Co-ops or Internships
- Youth Apprenticeship
- Pathway Partners

Learning Styles/Personality Traits
- Learning Styles Inventory

Service Learning Experiences
- Volunteer Efforts
- Youth Service Learning

Programs of Study/Career Pathways of Interest
- _____

Certificates
- Assistant Child Care Teacher
- Nursing Assistant

Co-Curricular Activities
- Clubs
- Athletics
- Arts

Assessment Results
- State accountability and other data

Work Values and Work Skills
- _____

Potential Post-High School Options
- Employment
- Apprenticeship
- Military
- Technical College
- University
- _____

Financial Plan
- Consumer and Personal Finance course
- Financial Aid Night
- Scholarships

REFLECTIVE QUESTIONS FOR STUDENTS

Throughout the Academic & Career Planning process, students are encouraged to reflect on four main questions to help develop their ACP. Students are encouraged to reflect on these questions as they develop their Academic & Career Plan.

WHO AM I?

- What interests me?
- What are my strongest skills?
- What academic, career, and/or life skills would I like to develop before I graduate?
- What is my preferred learning style?

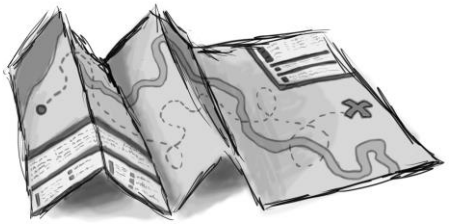
WHAT DO I WANT TO DO?

- What are the Programs of Study I am most interested in and why?
- Are there any specific career pathways that are of interest to me?
- What type of degree or certificate do I need to support my post-secondary goals?
- Will this career choice support what I want for my financial future?
- Which internal and external courses can I take to continue to explore my interests?
- What jobs would I like to shadow and when will I do that?

HOW DO I GET THERE?

- What do I want to get out of my post-high school education experience?
- What schools offer related degree/major?
- What are the typical credit numbers in each subject I need for college admissions?
- What will I need to provide competitive admissions application for the schools/majors I might be interested in? For example:
  - What level of math must I complete?
  - Which specific science courses are required?
  - Do I have to take a world language?
  - Do I have to take fine arts classes?
  - Do I need to complete a portfolio?
  - What ACT scores are required for admission?

- In what areas will I pursue more rigorous coursework to support my strengths and/or areas of interest?
- Will I take AP Courses, Youth Options, Transcripted Credit, Dual Enrollment, etc.?
- If I want to take an AP course, do I want to take it to explore a major or career? For example, if you are planning to go into law enforcement, did you know that it may help to take AP Psychology?
- Will my credits transfer to school(s) I want to attend?
- What credentials should I explore?



FINANCIAL PLANNING QUESTIONS

- How much do I anticipate that my post-high school education might cost and how will I pay for it?
- Will I qualify for Financial Aid and Scholarships?
- Will I have any savings from employment during high school?
- Will I have the dispositions needed to find/sustain employment following high school?
- Which extra-curricular activities will support my interests?
- What skills and work-based learning experiences will help me develop desired skills?
- What adults in my life do I feel could act as a mentor as I continue to explore opportunities for my future?

GO!

- Students are an active participant in their Academic & Career Planning Process. Students are encouraged to reflect often on their choices and update their plans, sometimes more than yearly. This will include:
  - Reviewing, adapting or modifying course selections
  - Reviewing, adapting or modifying personal goals
  - Conferencing with counselors and/or parents

ACP OUTCOMES BY GRADE LEVEL

At each grade level, students will practice goal setting and planning by developing and/or revising their personal Academic & Career Plan with guidance from adult mentors (staff, counselors, parents). This is meant to be a gradual process that builds from one year to the next and supports the unique development of each student. Student goals and plans are expected to change annually based on their personal experiences.

6TH GRADE STUDENT OUTCOMES

- Understand definitions and terms related to the Academic and Career Plan
- Begin exploring your interests
- Learn and explore each of the 16 Career Clusters and develop Programs of Study to explore further.
- Develop an initial course plan to modify over time
- Participate in college and career readiness events

7TH GRADE STUDENT OUTCOMES

- Complete inventories that help students understand themselves and the concept of a personal brand, and use the inventories to identify potential career interests to explore further
- Understand how to set academic and personal goals, and use school resources including the ACP Guide to develop a six-year academic plan
- Understand how to align course selection with potential career interests

8TH GRADE STUDENT OUTCOMES

- Understand graduation requirements, what makes up a high school transcript and the high school timeline of college and career readiness events
- Review the high school course offerings to revise the six-year course plan, and use the Programs of Study to select courses that support personal goals
- Learn how to create a resume

9TH GRADE STUDENT OUTCOMES

- Update personal inventories to identify any key changes that could affect goals or plans
- Be exposed to the concepts of "post-secondary alignment," available opportunities and financial planning that supports post-secondary

10th GRADE STUDENT OUTCOMES

- Conduct structured research on potential careers
- Identify roles and responsibilities, skills and abilities, education/training needed for identified careers
- Learn about career-based learning opportunities

11TH GRADE STUDENT OUTCOMES

- Understand how to evaluate post-secondary opportunities, do a college search, and locate and complete a college application
- Understand how to research job opportunities, create and use a network to find employment, and leverage labor market projections to assess future job opportunities
- Review assessment results and how they support post-secondary choices
- Understand financial implications for alternative post-secondary options along with resources available
- Create a resume for employment

12TH GRADE STUDENT OUTCOMES

- Develop a financial plan to support post-secondary transition
- Ensure Academic and Career Plan and related documents accurately reflect all honors, credentials, endorsements, etc. in the high school portfolio.
- Transition Academic and Career Plan portfolio elements to ensure access after graduation

ARTIFACT COMMUNICATION

Students will store ACP artifacts in Career Cruising. The advantage of using this platform is that it allows students to access their ACP information wherever they have internet access and they will update this information from year-to-year. Students are expected to share this information with their counselor, advisory teacher, and parents. Parents are an important part of the ACP process. We recommend that parents have ongoing discussions with their child about their personal, academic, and post-secondary goals.

Here are some suggestions for parents:

- Become familiar with the information located under the College and Career Readiness webpage on the Marshfield School District website.
- Discuss what subjects your son or daughter would like to learn about and what experiences they would like to participate in to develop their ACP.
- Ask your child to share their personal statement, goals, and action plan.

In each grade level, students will work towards achieving different outcomes. These outcomes are differentiated by grade level. The ACP process is designed to build each year to support the development of each student. The artifacts generated by students in each grade level are outlined in the table on the following page.

GRADE	ARTIFACTS	
6th	• Career Cruising Activities • Middle School Tours	• MHS Career Explorer • Middle School Counseling Presentation-Courses and Registration
7th	• Career Cruising Activities/Lunch and Learn • Career and Technical Student Organizations	• Parent Registration Night • Personal Development Night • MSTC Career Exploration • Counseling Registration Information Session
8th	• Career Cruising Activities/Lunch and Learn • Job Application and Mock Interview • Career Quest Café • Senior Panel • Pathway Partners Mentoring Program Intro	• Heavy Metal Tour • Reality Store • High School Counseling Presentation • Individual Learner Plans • Tiger Course Hunt • Career and Technical Student Organizations
9th	• Career Cruising Activities/Advisory Lessons • Tiger Course Hunt • Pathway Partners Mentoring Program	• Ready for Success (Parent/Student exposure to post-secondary options) • Student Services and College/Career Exploration
10th	• Career Cruising Activities/Advisory Lessons • Wisconsin Education Fair • MSTC CareerView • Career and Technical Student Organizations	• Tiger Course Hunt • Career-based Learning Program Intro • Ready for Success • Pathway Partners Mentoring Program
11th	• Career Cruising Activities/Advisory Lessons • Xtreme Xploration • Wisconsin Education Fair • Junior Conference Action Plan • MSTC CareerView • Pathway Partners Mentoring Program	• Career-based Learning Programs • Career and Technical Student Organizations • Tiger Course Hunt • Financial Aid Night/Scholarships • Content Specific Business Experiences • Ready for Success
12th	• Career Cruising Activities/Advisory Lessons • MSTC CareerView • Career-based Learning Programs/Certificates • Career and Technical Student Organizations	• Financial Aid Night/Scholarships • Content Specific Business Experiences • Pathway Partners Mentoring Program • Ready for Success

REDEFINING READY!

America's high schools have a profound responsibility to ensure that our nation's students are college ready, career ready, and life ready. Standardized test scores – traditionally used as the primary readiness indicator – do not always provide an accurate representation of our students' potential. Today's students are driven by ideas and innovations. They should not be reduced down to, or defined by, a single test score.

Our students are MORE than a SCORE.

Providing an opportunity to consider the whole child, we seek to redefine readiness and change the national narrative surrounding public education in the country by focusing on the three main areas of importance to students, parents, teachers, and employers: college readiness, career readiness, and life readiness. Since the implementation of No Child Left Behind, educators have looked to meet the needs of a diverse student body with a narrow focus on assessment results. Now with the Every Student Succeeds Act the law of the land, Redefining Ready! offers educators an opportunity to diversify the manner in which we measure student success overall.

It is imperative that we consider research-based, multi-metrics when assessing readiness for life after high school. We know that our students are more than one standardized test score and using a "one score judges all" approach is simply unfair to our students, our teachers, our school boards and our communities. We need a more authentic, appropriate, and relevant definition of readiness in this country. We are educating a generation of innovators – motivated by ideas and ingenuity. They learn in a variety of ways. And, they should be able to demonstrate college, career, and life readiness in a variety of ways. A multitude of decisions are based on student readiness including college acceptance, which oftentimes sets a course for a student's success in career and life. Higher education institutions and businesses will have a broader look into a student's commitment, character, and resilience rather than basing their decisions on a standardized test score that may or may not accurately reflect a student's readiness level. This new definition provides a full picture of how well students are prepared for a 21st century workforce that relies on creativity, vision, communication, and other skills that cannot be measured through standardized tests.

To view the research source documents, visit the Redefining Ready! Website at www.RedefiningReady.org.

LIFE READY

Being Life Ready means students leave high school with the grit and perseverance to tackle and achieve their goals. Students who are Life Ready possess the growth mindset that empowers them to approach their future with confidence, to dream big, and to achieve big. Our nation's schools provide social and emotional support and experiences to equip students with the Life Ready skills they will need for success in their future. In grades 6-12 in the School District of Marshfield, students receive one general rating for social skills and one general rating for work skills for each subject area quarterly, which are considered Life Ready indicators for students in the school district. Life Ready students exhibit a minimum score of "2" in all classes for Social and Work Skills.

Social Skills

1. Respects others and property
2. Takes responsibility for own actions
3. Seeks positive solutions to problems
4. Practices self-control
5. Displays effort to produce quality work

Work Skills

1. Organized and prepared for class
2. Follows directions and participates
3. Pays attention
4. Completes tasks/uses time wisely

Performance Levels

1 – Exemplary – Student shows this quality with words and actions without reminders and is a highly productive member of the class.

2 – Doing Well – Student shows this quality with words and actions most of the time.

3 – Needs Improvement – Frequent reminders and redirection are needed.

Career Ready

Students are Career Ready if they have identified a career interest and meet two of the behavioral and experiential benchmarks listed below. In addition, students entering the military upon graduation must meet the passing scores on the Armed Services Vocational Aptitude Battery (ASVAB) for each branch of the military. Career Ready indicators include a student identifying a Career Cluster of interest and two or more of the following benchmarks:

- 90% Attendance
- 25 hours of Community Service
- Career-based Learning Experience (Youth Apprenticeship, Internship, Capstone, Pathway Partners)
- Industry Credential
- Dual Credit Career Pathway Course
- Two or more organized Co-Curricular Activities

College Ready

Students are College Ready if they meet the academic indicators OR standardized testing benchmarks below.

Academic Indicators

GPA 2.8 out of 4.0 and one or more of the following academic indicators:

- Advanced Placement Course (A, B, or C) and/or Advanced Placement Exam (3+)
- Dual Credit College English and/or Math (A, B, or C)
- College Developmental/Remedial English and/or Math (A, B, or C)
- Algebra II (A, B, or C)

Standardized Testing Benchmarks (minimum score on one or more of the following)

- SAT Exam: Math (530) | Reading and Writing (480)
- ACT Exam: English (18) | Reading (22) | Science (23) | Math (22)
- College Readiness Placement Assessment (determined by post-secondary institution)

Additional Factors that Contribute to College Success

- Earning As, Bs, Cs
- FAFSA completion
- Enrollment in career pathway course sequence
- College academic advising
- Senior year math class

PROGRAMS OF STUDY: OVERVIEW

"Programs of Study provide a framework to connect rigorous and relevant learning experiences to a wide variety of opportunities after high school."

What is a Program of Study?

The School District of Marshfield's Programs of Study are based on the national Programs of Study framework, which aligns high school and post-secondary education with the demands of the changing global economy. The information provided is customized to the School District of Marshfield in alignment with the Vision of Our Graduate. Programs of Study are designed to provide a context for purposeful conversations with counselors and staff as students develop and revise their Academic and Career Plan over time.

Career Clusters and Career Pathways within the Programs of Study

There are sixteen Career Clusters organized by a common theme or interest. Learning experiences from different Programs of Study often complement each other so it is important to review a variant of them. Career Clusters (for example, Health Science) are often refined further by career pathways (for example, Nursing) for those students who already know which career they plan to pursue. Students can get more information through their account on Career Cruising.

Connecting Programs of Study to a Student's ACP

We expect every Academic and Career Plan to be as unique as each of our students. For example,

- Students passionate about pursuing a specific career can pursue opportunities aligned to a single Program of Study
- Students can choose to blend portions of one Program of Study with another based on their skills and interest
- Students who are unsure of their long-term career interests can explore opportunities in many different Programs of Study that will help them better understand themselves and the skills and knowledge needed for different careers
- Students may also choose a liberal arts approach to their education by focusing on the course sequences in each of the core subject areas along with coursework in the humanities, fine arts, and world languages. This approach defers certain aspects of career exploration to a student's postsecondary education.
- All students are advised to select opportunities for rigor (college level coursework in academic and/or technical subjects) in their areas of strength and/or interest to ensure that they continue to develop their knowledge, skills and dispositions for success each year.

Coursework in the Programs of Study

The School District of Marshfield has listed specific courses in each of the Programs of Study to assist students in the process of course selection. **Courses offered are subject to change at any time**. Courses listed in each cluster provide exposure, and help students build skills related to, the careers in that cluster. Recommendations for related post-secondary coursework have also been provided for those up for added challenge. Please note that the courses listed are broad recommendations only and are not intended to direct students away from other areas of interest. All courses are designed to teach valuable knowledge and skills. The courses that are listed are examples of courses that support a given Program of Study. But, which ones you select depends on the goals and action plans you have set for yourself. For example, you will notice that we have included some AP coursework in each of the Programs of Study. Demonstrating success in college level coursework is one way to evaluate college readiness. However, the coursework you choose to challenge yourself with depends, in part, on what you want to learn about, as well as, the education level and Program of Study you plan to pursue after high school. Please refer to the reflective question found earlier in this guide, as well as, the example 'Career Types by Pathway' in each Program of Study to assist you in this process. Your counselor can also help you select courses that will help you achieve your personal, academic, social and career goals.

Post-Secondary Planning

Students can utilize Wisconsin's Youth Options/Course Options program, courses that provide Transcripted Credit/Advanced Standing, and Advanced Placement coursework, as well as, Career and Technical Education, to begin some of their post-secondary education while still in high school. Students can also use the 16 Program of Study charts, on the following pages to review what type of education is needed for each career within the cluster.

For more information about post-secondary planning in high school, click on the links below:

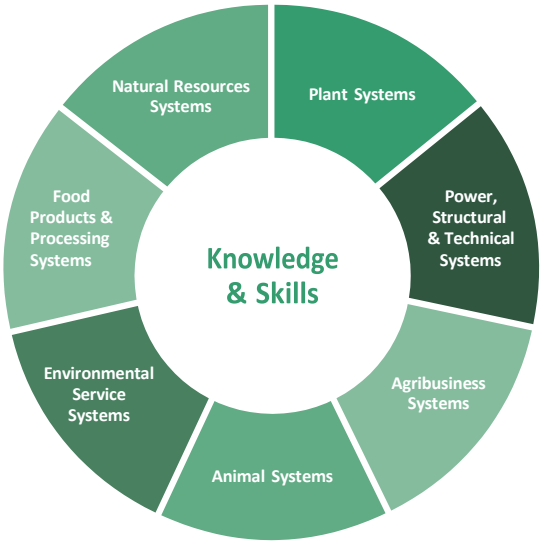
- Career Cruising
  - https://public.careercruising.com/en/home/
- Wisconsin Department of Public Instruction and ACP
  - http://dpi.wi.gov/acp
- School District of Marshfield ACP:
  - https://www.marshfieldschools.org/acp

AGRICULTURE, FOOD AND NATURAL RESOURCES

This Program of Study prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services. This includes food, firewood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical and educational services.

Pathways:

- Agribusiness Systems
- Animal Systems
- Environmental Service Systems
- Food Products and Processing Systems
- Natural Resources Systems
- Plant Systems
- Power, Structural, and Technical Systems



Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• Prin of Biomed Sciences (PLTW) • World Languages	• Human Body Systems (PLTW) • World Languages	• World Languages • Medical Interventions (PLTW)	• AP Economics • World Languages • Biomedical Innovations (PLTW)
Career & Technical Education	• Career Pathways • Construction I • Intro to Metal	• TC Horticulture • Forestry • Dairy Science • Animal Mgmt Small Animal Vet- Science • Wildlife Mgmt • Agribusiness Mgmt • Small Engine and Repair	• TC Accounting I and II • Food Science • TC Business Core	• See Work-Based Learning Options below

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
English	• English I • English I Essentials	• English II R/H/Essentials • AP Lang/US History • English II Essentials	• AS Oral and Interpersonal Communication • English III R/H/Essentials	• AS Written Comm • Contemporary Media & Lit • TC English 101/102 • AP English Lit & Comp • English IV Essentials
Math	• Essentials I • Algebra I	• Essentials II • Geometry	• Adv. Math Applications • Algebra II	• AS Technical Math • TC Math 105/110 • Pre-Calculus • AP Statistics
Science	• Biology • Agriscience • Earth and Space Science	• Chemistry • AP Biology • ES-Animal Science • ES-Biotechnology • ES-Plant & Soil Science	• Physics • AP Environmental Science • Anatomy & Physiology • Dairy Science • Small Animal Vet	• AP Physics
Social Studies	• U.S. History and American Government R/Essentials/AP	• American Republic R/Essentials • AP US History • AP Lang/US History	• World Studies R/Essentials • AP European History • AP World History • Crime • Justice and Law	• Crime, Justice, and Law • Psychology R/AP
Other Required	• Computer Applications • Healthy Choices • Physical Education	• Healthy Choices • Physical Education Computer Applications	• Consumer & Personal Finance • Physical Education	• Consumer & Personal Finance • Physical Education
Work-Based Learning Options	Agribusiness Co-op, Youth Apprenticeship			
Other Activities	FBLA, FFA, Pathway Partners, National Honor Society, Youth Service Learning, Science Olympiad			

AGRICULTURE, FOOD AND NATURAL RESOURCES

Career Types by Pathway

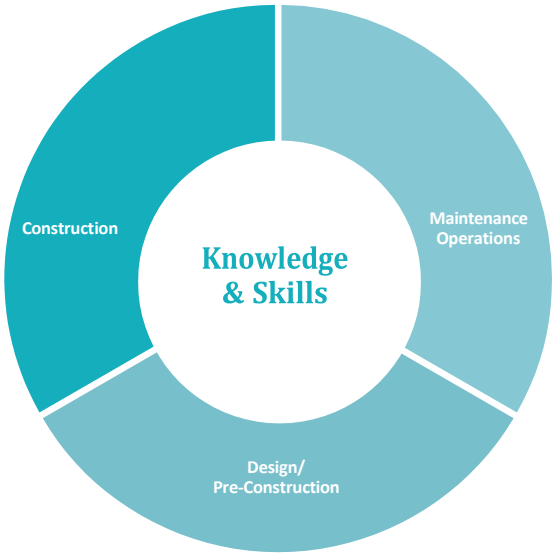
High School Diploma/ON-THE-JOB-TRAINING	Certificate/License	Associate's Dress	Bachelor's Degree	Master's/Doctoral Professional Degree
AGRIBUSINESS SYSTEMS				
• Farm and Ranch Workers	• Agriculture Contact Provider	• Agribusiness Management • Agribusiness Operations Technology • Agriculture • Agri-Communications • Farm and Ranch Business Management	• Agricultural Economics • Agribusiness • Agricultural Education • Agricultural Journalism • Hospitality Restaurant and Tourism Management • Professional Golf Management	• Agricultural Economics • Agricultural Leadership • Education Statistics
ANIMAL SYSTEMS				
• Animal Caretakers • Feed Sales	• Ag Dairy Technician • Beef Quality Assurance • Livestock Production • Pork Quality Assurance	• Animal Science • Equine Industry Management • Livestock Industry Management • Swine Management • Veterinary Technology	• Animal Science Biochemistry • Grazing Livestock Systems • Veterinary Science • Veterinary Technologist	• Animal Science (Nutrition, Genetics or Physiology Focus) Biochemistry • Integrative Biomedical Sciences • Veterinary Medicine
ENVIRONMENTAL SERVICE SYSTEMS				
• Refuse and Recyclable Material Collection		• Environmental Science • Laboratory Science Technology	• Aquatic Ecology • Conservation Biology • Environmental Soil Science • Environmental Studies Habitat Management • Insect Science	• Entomology • Natural Resource Sciences
FOOD PRODUCTS & PROCESSING SYSTEMS				
• Butchers and Meat Cutters • Meat Processing • Slaughter and Meat Packer	• Ag Dairy Technician • Commercial Plant Production • Food Handlers Permit • Quality Control	• Agronomy • Diversified Agriculture • Dietary Management • Food Science and Technology • Quality Control	• Agronomy • Animal Science Food Science and Technology • Hospitality, Restaurant and Tourism Management • Mechanized Systems Management	• Agronomy • Animal Science (Meat Science Focus) • Food Science and Technology Nutrition
NATURAL RESOURCES SYSTEMS				
		• Natural Resources Systems • Soil and Water Conservation • Wildlife Management	• Environmental Soil Sciences • Environmental Studies • Fisheries and Wildlife • Grassland Ecology/Management • Natural Resources and Environmental Economics • Water Science • Waste Water Operator	• Horticulture and Forestry • Natural Resources Sciences
PLANT SYSTEMS				
• Nursery and Greenhouse Workers • Seed Sales • Tree Trimmers and Pruners	• Commercial Horticulture	• Agronomy Commercial • Horticulture Crop Production • Forestry Landscape/Nursery • Sport Turf Technology	• Agronomy • Biochemistry • Diversified Agriculture Studies • Grazing Livestock Systems Horticulture • Insect Science • Plant Protection Sciences	• Agriculture Agronomy • Biochemistry Entomology Horticulture • Horticulture and Forestry
POWER, STRUCTURAL & TECHNICAL SYSTEMS				
• Electrician Apprenticeship • Plumbing Apprenticeship • Welding Apprenticeship	• Parts Distribution & Management • Parts/Sales and Management	• Agri-Technology Farm • Mechanics Irrigation Technology • John Deere Ag Technician • Mechanized Agriculture	• Agricultural Operations • Mechanized Marketing • Mechanized Science • Mechanized Systems Management • Processing Operations	• Agricultural and Biological Systems Engineering • Mechanized Systems Management

ARCHITECTURE AND CONSTRUCTION

This Program of Study prepares learners for careers in designing, planning, managing, building and maintaining the building environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs

Pathways:

- Construction
- Design/Pre-Construction
- Maintenance Operations



Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• World Languages	• World Languages	• World Languages • AP Economics	• World Languages TC Accounting I and II
Career & Technical Education	• Construction Tech I • Intro to Engineering Design (PLTW) • Career Pathways • Electricity and Electronics	• Construction Tech II • Principles of Engineering (PLTW)	• Adv. Construction-Technology • TC Business Core • Digital Electronics (PLTW)	• Construction Technology Capstone • Civil Engineering and Architecture (PLTW) • See Work-Based Learning Options below

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
English	• English I R/H/Essentials	• English II R/H/Essentials, AP Lang/US History	• AS Oral and Interpersonal Communication, R/H/Essentials, AP Language & Composition	• AS Written Communications, AP Literature & Composition, TC English 101/102, Contemporary Media & Lit, English IV Essentials
Math	• Essentials I Math • Algebra I • Geometry	• Essentials II Math • Geometry • Algebra II	• Advanced Math Applications • Algebra II • Pre-Calculus	• AS Technical Math • TC Math 105/110 • Pre-Calculus • AP Calculus • AP Statistics
Science	• Biology • Agriscience • Earth and Space Science	• Chemistry • AP Biology	• AP Environmental Science • Physics	• AP Physics
Social Studies	• US History & American Government • AP Government • Essentials	• American Republic R/Essentials • AP US History • AP Lang/US History	• World Studies R/Essentials • AP European History • AP World History	• Crime, Justice, and Law
Other Required	• Healthy Choices • Physical Education • Computer Applications	• Healthy Choices • Physical Education	• Consumer & Personal Finance • Physical Education	• Consumer & Personal Finance • Physical Education
Work-Based Learning Options	Youth Apprenticeship, ACE Academy			
Other Activities	FFA, National Honor Society, Pathway Partners, Skills USA, Youth Service Learning			

Career Types by Pathway

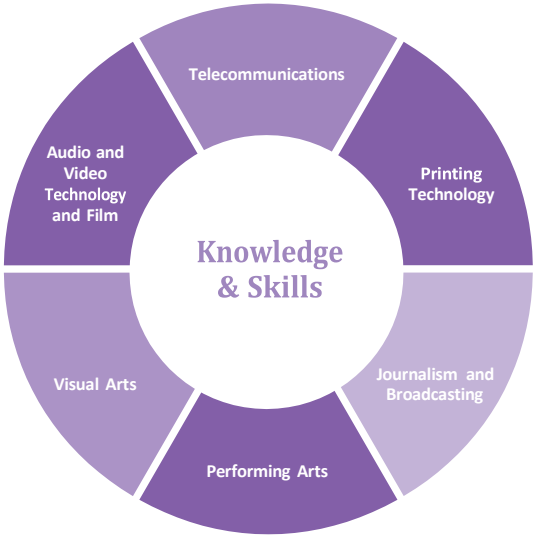
High School Diploma/ON-THE-JOB-TRAINING	Certificate/License	Associate's Dress	Bachelor's Degree	Master's/Doctoral Professional Degree
CONSTRUCTION				
• Carpentry • Iron Working • Masonry	• Carpentry • Construction Management • Electrical and Power Transmission • Iron Working	• Carpentry • Construction Management • Electrical and Power Transmission • Iron Working	• Construction Management	• Construction Management • Construction Engineering
DESIGN AND PRE-CONSTRUCTION				
	• Interior Design • Surveying Technology		• Architectural Engineering Technology • Civil Engineering Technology • Interior Design • Landscape Architecture	• Architectural Engineering Technology • Civil Engineering Technology • Environmental Design • Interior Design • Landscape Architecture
MAINTENANCE AND OPERATIONS				
• Electrical/Electronics Equipment, Installation and Repair • Grounds-keeping • Heating, Air Conditioning, and Refrigeration Technology	• Electrical/Electronics Equipment, Installation and Repair • Grounds-keeping • Heating, Air Conditioning, and Refrigeration Technology	• Electrical/Electronics Equipment, Installation and Repair • Grounds-keeping • Heating, Air Conditioning, and Refrigeration Technology	• Industrial Engineering	

ARTS, A/V TECHNOLOGY & COMMUNICATIONS

Individuals that work in the AV communications industry manufacture, sell, rent, design, install, integrate, operate, and repair the equipment of audiovisual communications. Careers include designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Pathways:

- Audio and Video Technology and Film
- Journalism and Broadcasting
- Performing Arts
- Printing Technology
- Telecommunications
- Visual Arts



Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• World Languages • Art Electives	• World Languages • AP Art History • Art Electives • Art Photography	• World Languages • Art Electives, Psychology • AP Psychology • Adv. Art Photography	• World Languages • Art Electives, Studio Photography
Career & Technical Education	• Intro to Programming • Web Design • Career Pathways • Digital Publications	• Comp Hardware Systems • Advanced Web Design • Sports Marketing • Computer Networking	• TC Business Core • Intermediate Programming	• AP Computer Science • See Work-Based Learning Options below

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
English	• English I R/H/Essentials	• English II R/H/Essentials • AP Lang/US History • Speech • Drama	• English III R/H/Essentials • AS Oral and Interpersonal Communication • AP Lang. & Composition	• English IV Essentials • AS Written Communication • TC 101/102, AP Lit & Comp • Contemporary Media & Lit
Math	• Essentials I Math • Algebra I • Geometry	• Essentials II Math • Algebra II	• Advanced Math Applications	• AS Technical Math • TC Math 105/110 • Pre-Calculus
Science	• Biology, Agriscience and You • Earth and Space Science	• Chemistry • AP Biology • ES Animal Science • Earth and Space Science	• Physics • AP Environmental Science	• Science Electives
Social Studies	• US History & Government • AP Gov	• American Republic • AP US History • AP Lang/US History	• World Studies • AP World History • AP European History	• Crime, Justice, and Law • Psychology
Other Required	• Computer Applications • Healthy Choices • Physical Education	• Physical Education • Computer Applications	• Consumer & Personal Finance • Physical Education	• Consumer & Personal Finance • Physical Education
Work-Based Learning Options	Youth Apprenticeship			
Other Activities	Arts Club, FBLA, National Honor Society, Pathway Partners, Skills USA, Youth Service Learning, Madrigals, Drama Club, Student Council, Musicals, Plays			

ARTS, A/V TECHNOLOGY & COMMUNICATIONS

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
AUDIO & VIDEO TECHNOLOGY & FILM				
	• Audio and Recording Technology • Video Production	• Audio and Recording Technology • Communications Technology • Electronics • Industrial Video Production • Film/Video Technology	• Design and Visual Communications • Electrical Engineering • Film Studies and Production • Mechanical Engineering • Telecommunications Management	• Electronics Engineering
JOURNALISM & BROADCASTING				
	• Certification by the Society of Broadcast Engineers • Radio Announcing • Radio Production	• Audio and Recording Technology • Radio/TV Journalism Mass • Media/Communications • Media Arts	• Advertising • Broadcasting • Journalism • News-Editorial • Visual Communication	• Journalism
PERFORMING ARTS				
• Movie and Stage Grip • Usher and Ticket Taker • Movie Projectionist	• Musical Instrument Repair and Tuning Sound Engineering • Theater Technology	• Camera Operation • Music • Musical Instrument Repair and Tuning Sound Engineering • Sound Engineering • Theater Technology	• Arts Administration • Dance • Music • Stage Management • Theater Arts	• Music • Musical Arts
PRINTING TECHNOLOGY				
• Bookbinder and Bindery Worker • Graphic and Printing Equipment Operator	• Desktop Publishing • Digital Publishing • Graphic Communication • Offset Publishing • Web Page Design	• Electronic Imaging and Graphics • Graphic Design • Media Arts • Printing Technology • Visual Publications	• Computer Graphics • Graphic Design • Industrial Design • Printing Management • Visual Communication and Design	
TELECOMMUNICATIONS				
	• Electronics Technology	• Computer and Information Sciences • Computer Systems Analysis • Electronics Technology in Telecommunications • Information Technology	• Computer Networking and Telecommunications • Electronics Engineering • Operations Technology • Telecommunications Management	• Electronics Engineering • Information Technology • Telecommunications • Engineering
VISUAL ARTS				
• Photograph Processing Worker	• Commercial Art • Digital Publishing • Graphic Art • Multimedia Photography	• Commercial Art • Graphic Design • Interior Design • Media Arts • Visual Publications	• Art History • Fashion Design • Graphic Design • Interior Design • Studio Arts • Visual Communication	• Art History • Studio Arts

BUSINESS, MANAGEMENT & ADMINISTRATION

The Business, Management and Administration Cluster prepares learners for careers in planning, organizing, directing and evaluating business functions essential to effective and productive business operations. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication.

Pathways:

- Administrative Support
- Business Information Management
- General Management
- Human Resources Management
- Operations Management

Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• World Languages • AP Human Geography	• World Languages	• World Languages	• World Languages
Career & Technical Education	• Career Pathways • Intro Programming • Digital Publications	• Sports Marketing • Comp Hardware Systems • Web Design • Accounting Principles	• Comp. Networking I • TC Business Core • Intermediate Programming • Adv. Web Design	• AP Comp Science • TC Accounting I & II • See Work-Based Learning Options below

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
English	• English I R/H/Essentials	• English II R/H/Essentials • AP Lang/US History • Speech	• English III R/H/Essentials • AS Oral and Interpersonal Communication • AP Lang. & Composition	• AS Written Communication • TC English 101/102 • Contemporary Media & Literature • AP Literature & Composition • English IV Essentials
Math	• Essentials I • Algebra I • Geometry	• Essentials II • Algebra II	• Adv. Math Applications • Pre-Calculus • AP Statistics	• AS Technical Math • Math 105/110 • AP Calculus
Science	• Biology • Agriscience	• Chemistry • AP Biology	• AP Chemistry • Physics • AP Enviro Science	• Science Elective
Social Studies	• US History & American Government R/Essentials/AP	• American Republic Essentials/R • AP US History • AP Lang/US History	• World Studies R/Essentials • AP World History • AP European History • AP Economics, Crime • Justice & Law	• History of American Gov • AP Government & Politics
Other Required	• Computer Applications R/H • Healthy Choices • Physical Education	• Physical Education • Healthy Choices	• Consumer & Personal Finance • Physical Education	• Consumer & Personal Finance • Physical Education
Work-Based Learning Options	Youth Apprenticeship, Business Internship			
Other Activities	FBLA, National Honor Society, Pathway Partners, Youth Service Learning, Student Council, Mock Trial			

BUSINESS, MANAGEMENT & ADMINISTRATION

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
ADMINISTRATIVE SERVICES				
• Administrative Assistant • Computer Operator • Customer Service • Data Entry Specialist	• Court Reporting • Information Processing • Legal or Medical • Information Technology • Office Administration	• Court Reporting • Information Processing • Legal or Medical Information Technology • Office Administration	• Information Systems • Information Technology Management	
BUSINESS INFORMATION MANAGEMENT				
	• Business Administration • Information Technology • Office Technology	• Business Administration • Information Technology • Office Technology	• Business Administration • Information Systems • Information Technology Management	• Business Administration • Information Technology
HUMAN RESOURCES MANAGEMENT				
• Human Resources Clerk	• Business Administration	• Business Administration	• Human Resources Management	• Business Administration
MANAGEMENT				
	• Certified Government Auditing Professional • Certified Professional Consultant	• Agribusiness Business • Administration • Marketing	• Business Administration • Entrepreneurship • Marketing • Finance • Hospital Management • International Business	• Business Administration • Management
OPERATIONS MANAGEMENT				
	• Business Administration • Retail Management	• Agribusiness • Business Administration	• Business Administration • Marketing Operations Management	• Business Administration

EDUCATION & TRAINING

This Program of Study prepares learners for careers in planning, managing and providing education and training services, and related learning support services such as administration, teaching/training, administrative support, and professional support services.

Pathways:

- Administrative and Administrative Support
- Professional Support Services
- Teaching and Training

Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• World Languages • AP Human Geography • Career Pathways • Art Electives	• World Languages • Art Electives	• World Languages • Art Electives	• World Languages • Art Electives
Career & Technical Education	• Career Pathways • Agriculture Electives • Business & Information Technology Electives • Family & Consumer Science Electives • Technology Education Electives • Music Electives	• Agriculture Electives • Business & Information Technology Electives • Family & Consumer Science Electives • Technology Education Electives	• Agriculture Electives • Business & Information Technology Electives • Family & Consumer Science Electives • Technology Education Electives • TC Career with Kids	• Future Teacher Internship • Agriculture Electives • Business & Information Technology Electives • Family & Consumer Science Electives • Technology Education Electives

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
English	• English I R/H/Essentials	• English II R/H/Essentials • AP Lang/US History	• English III R/H/Essentials • Speech • AP Lang & Composition • AS Oral and Interpersonal Communication	• AS Written Comm • TC English 101/102 • AP Lit & Comp • Contemporary Media & Lit • English IV Essentials
Math	• Essentials I • Algebra I • Geometry	• Algebra II	• Pre-Calculus • AP Statistics	• AS Technical Math • Math 105/110 • AP Calculus
Science	• Biology • Agriscience • Earth and Space Science	• Chemistry • AP Biology • ES Animal Science	• AP Chemistry • Physics • AP Environmental Sci • Anatomy and Physiology	• AP Physics
Social Studies	• US History & Government R/H/AP	• American Republic R/Essentials • AP US History • AP Lang/ US History	• World Studies R/Essentials • AP World History • AP European History • Psychology	• Elective
Other Required	• Computer Applications • Healthy Choices • Physical Education	• Computer Applications • Physical Education	• Consumer & Personal Finance • Physical Education	• Consumer & Personal Finance • Physical Education
Work-Based Learning Options	Family & Consumer Sciences Internship, Business Internship, Future Teacher Internship			
Other Activities	Athletics, Arts Club, Drama Club, FBLA, FCCLA, FFA, Madrigals, Plays, Musicals, Mock Trial, National Honor Society, Pathway Partners, Skills USA, Student Council, Youth Service Learning			

EDUCATION & TRAINING

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
ADMINISTRATION & ADMINISTRATIVE SUPPORT				
				• Educational Administration • Educational Studies • Business Administration • Administration and Supervision
PROFESSIONAL SUPPORT SERVICES				
	• Personal Trainer	• Library Technical Assistant	• Speech-Language Pathology • Social Work • Information Science and Technology • Special Education and Communication Disorders	• Educational Psychology • Human Services • Instructional Technology • School Psychology • School Counseling • Social Work
TEACHING/TRAINING				
• Child Care Worker • Coach of Community-based Sports Leagues	• Early Childhood Education • Assistant Coaching	• Early Childhood Education Sign Language Interpreting • Education Paraprofessional	• Early Childhood Education • Elementary Education • Middle Level Education • Secondary Education • Special Education • Athletic Trainer	• Curriculum and Instruction Education • Teaching, Curriculum and Learning • Leadership Education • Leadership Studies

FINANCE

The Finance Cluster prepares learners for careers in finance and investment planning, banking, insurance and business finance management. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication.

Pathways:

- Accounting
- Banking Services
- Business Finance
- Insurance
- Securities and Investments

Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• World Languages • AP Human Geo	• World Languages	• World Languages • Psychology R/AP • AP Economics	• World Languages
Career & Technical Education	• Career Pathways, Intro Programming • Web Design	• Comp Hardware Systems • Sports Marketing • Accounting Principles	• Comp. Networking I • TC Business Core • Intermediate Programming • Adv. Web Design	• AP Computer Science • TC College Accounting I & II • See Work-Based Learning Options below
English	• English I R/H/Essentials	• English II R/H/Essentials • AP Lang/US History • Speech	• English III R/H/Essentials • AS Oral and Interpersonal Communication • AP Lang & Composition	• AS Written Communications • AP Lit & Comp • Contemporary Media & Lit • English IV Essentials

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Math	• Essentials I • Algebra I • Geometry	• Essentials II • Algebra II	• Adv. Math Applications, Pre-Calculus • AP Statistics	• Math 105/110 • AP Calculus
Science	• Biology • Agriscience	• Chemistry • AP Biology	• AP Chemistry • Physics • AP Environmental Sci	• Science Elective
Social Studies	• US History & American Government R/Essentials/AP	• American Republic Essentials/R • AP US History • AP Lang/US History	• World Studies R/Essentials, AP World History • AP European History • AP Economics	• Crime Justice & Law or Social Science Elective
Other Required	• Computer Applications R/H • Healthy Choices • Physical Education	• Physical Education • Computer Applications • Healthy Choices	• Consumer & Personal Finance • Physical Education	• Consumer & Personal Finance • Physical Education
Work-Based Learning Options	Business and Marketing Internship, Youth Apprenticeship			
Other Activities	FBLA, National Honor Society, Pathway Partners, Student Council, Youth Service Learning			

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
ACCOUNTING				
• Accounting Clerk • Bookkeeping Clerk	• Business Administration	• Business Administration		• Accounting • Certified Public Accountant
BANKING SERVICES				
• Bank Teller • Commodity Banker		• Business Administration	• Banking and Finance • Business Administration • Auditor	• Banking and Finance • Business Administration
BUSINESS FINANCE				
		• Business Administration • International Business • Trade and Finance	• Business Administration • Economics	• Accounting and Finance
INSURANCE				
• Customer Service Agent • Processing Clerk	• Tax Preparation	• Business Administration • Property and Casualty Insurance	• Mathematics • Statistics	• Actuarial Science
SECURITIES AND INVESTMENTS				
• Payroll Clerk	• Certified Financial Analyst • Certified Financial Planner	• Agribusiness • Business Administration • Court Reporting • Information Technology • Office Administration • Office Technology	• Accounting Business • Administration • Finance	• Business Administration • Management

GOVERNMENT & PUBLIC ADMINISTRATION

This Program of Study prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services. This includes food, firewood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical and educational services.

Pathways:

- Foreign Services
- Governance
- National Security
- Planning
- Public Management and Administration
- Regulation
- Revenue and Taxation

Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• World Languages • AP Human Geography	• World Languages	• World Languages • Psychology • AP Economics	• World Languages
Career & Technical Education	• Career Pathways	• Sports Marketing • Web Design	• TC Business Core	• TC Accounting I & II • See Work-Based Learning Options below
English	• English I R/H/Essentials	• English II R/H/Essentials • AP Lang/US History • Speech	• English III R/H/Essentials • AS English III • AP Lang & Comp	• AS Written Comm • TC English 101/102 • AP Lit & Comp • Contemporary Media & Lit • English IV Essentials

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Math	• Essentials I • Algebra I Geometry	• Essentials II • Algebra II	• Adv. Math Applications • Pre-Calculus • AP Statistics	• AS Technical Math • TC Math 105/110
Science	• Biology • Earth & Space Science • Agriscience	• Chemistry • Biology • AP Biology	• Physics • AP Environmental Science	• Science Elective
Social Studies	• US History & American Gov R/Essentials/AP Government	• American Republic R/Essentials • AP US History • AP Lang/US History	• World Studies R/Essentials • AP World History • AP European History	• Crime Justice & Law • Psychology R/AP or Social Science Elective
Other Required	• Computer Applications • Healthy Choices • Physical Education	• Physical Education • Computer Applications	• Consumer & Personal Finance • Physical Education	• Consumer & Personal Finance • Physical Education
Work-Based Learning Options	Business Internship			
Other Activities	FBLA, Job Shadow, National Honor Society, Pathway Partners Mentoring Program, Youth Service Learning, Mock Trial, Student Council			

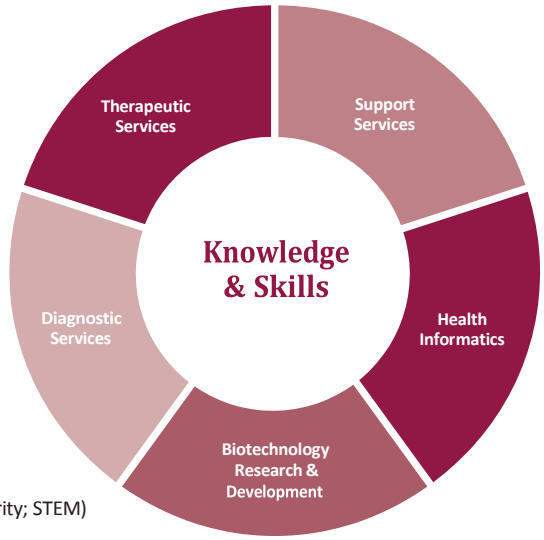
GOVERNMENT & PUBLIC ADMINISTRATION

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
FOREIGN SERVICE				
			• International Studies • Sociology • Geography and History • International Business • Economics • Statistics	• Survey, Research and Methodology • Sociology • Economics • Statistics
GOVERNANCE				
			• Political Science • Geography • Economics • Statistics	• Political Science • Geography • Economics • Statistics • Research and Methodology
NATIONAL SECURITY				
			• Military Science • Psychology • Electrical or Computer Engineering • Foreign Language	• Survey, Research and Methodology
PLANNING				
			• Economics • Geography • Engineering	• Community and Regional Planning • Economics • Architecture • Geography • Survey, Research and Methodology
PUBLIC MANAGEMENT AND ADMINISTRATION				
			• Actuarial Science • Management • Business Administration • Economics • Statistics	• Public Administration • Survey, Research and Methodology • Actuarial Science • Management • Economics • Statistics
REGULATION				
			• Food Science and Technology • International Business • Economics • Statistics	• Survey, Research and Methodology • Food Science and Technology • Economic • Statistics

HEALTH SCIENCE

The Health Science Program of Study (POS) connects individuals to a large variety of health care areas that is characterized by diversity and changing technologies. This Program of Study allows students to investigate and observe a large variety of health care areas. Health Science careers include planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. There are obvious connections between Health Science and other programs of study (please see those in parentheses below for possible opportunities). Pathwaysinthis Program of Study include:



Pathways:

- Biotechnology Research & Development
  (Agriculture, Food, and Natural Resources; STEM)
- Diagnostic Services
  (Information Technology/Computing)
- Health Informatics
  (Business, Management, Administration; Law, Public Safety, Corrections, and Security; STEM)
- Support Services
  (Human Services; STEM)
- Therapeutic Services
  (Human Services; STEM)

Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• World Languages • AP Human Geo	• World Languages	• World Languages, Psychology • AP Economics	• World Languages
Career & Technical Education	• Family & Consumer Science Electives • Sports Medicine I (SS • Career Pathways	• Exploring Health Careers • Family & Consumer Science Electives	• TC Medical Terminology • Family & Consumer Science Electives	• Family & Consumer Science Electives • See Work-Based Learning Options below

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
English	• English I R/H/Essentials	• English II R/H/Essentials • AP Lang/US History	• English III R/H/Essentials • AS Oral and Interpersonal Communication • AP Lang & Composition	• AS Written Communication • TC English 101/102 • AP Lit & Comp • Contemporary Media & Lit • English IV Essentials
Math	• Essentials I • Algebra I • Geometry	• Essentials II • Algebra II	• Advanced Math Applications • Pre-Calculus • AP Statistics	• AS Technical Math • TC Math 105/110 • AP Calculus
Science	• Biology • Principles of Biomedical Sciences (PLTW)	• Human Body Systems (PLTW) • Chemistry • AP Biology • ES Biotechnology	• Medical Interventions (PLTW) • Anatomy and Physiology • Biochemistry	• Biomedical Innovations (PLTW) • Physics
Social Studies	• US History & Amer. Gov. Essentials/R/AP	• American Republic R/Essentials • AP US History • AP Lang/US History	• World Studies Essentials/Reg • AP World History • AP European History	• Elective
Other Required	• Computer Applications • Healthy Choices • Physical Education	• Physical Education • Healthy Choices	• Consumer & Personal Finance • Physical Education	• Physical Education • Consumer & Personal Finance
Work-Based Learning Options	TC Health Career Connections, Youth Apprenticeship, Sports Medicine II			
Other Activities	FCCLA, HOSA, National Honor Society, Pathway Partners, Youth Service Learning, Science Olympiad, Science Bowl, Student Council			

HEALTH SCIENCE

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
BIOTECHNOLOGY RESEARCH AND DEVELOPMENT				
	• Quality Assurance Technician • Quality Control Technician	• Clinical Laboratory Technician (CLT) • Medical Laboratory Technician (MLT)	• Biochemistry Immunology • Medical Technology • Microbiology • Neuroscience	• Anatomy • Biochemistry • Oncology • Biology • Virology • Epidemiology
DIAGNOSTIC SERVICES				
• Clinical Rotation	• Electrocardiograph Technology • Nuclear Medical Technology • Radiology Technologist	• Cardiovascular Technology • Medical Laboratory Assisting • Nuclear Medical Technology	• Biology • Medical Imaging Technology • Medical Laboratory Science • Nutrition	• Cardiovascular Technology • Diagnostic Radiology • Medical Laboratory Science • Nuclear Medicine
HEALTH INFOMATICS				
• Coding Experience • Data Entry • Community Service	• Health Records Technology • Medical Assisting • Medical Librarian • Medical Transcription	• Health Information Technology • Medical Coding • Medical Office Services	• Community Health • Health Care Administration • Health Education	• Health Care Administration • Library Science • Nursing Administration • Public Health
SUPPORT SERVICES				
• Central Services Assistant • Dietary Manager • Electrical/Electronic Equipment Repair	• Dietary Management • Electrical/Electronic Equipment Repair • Medical Office Management	• Dietary Management • Medical Office Management • Registered Dietetic Technician	• Biomedical Technology • Environmental Health & Safety • Prosthetic Therapies	• Environmental Health Sciences • Industrial/Operations • Engineering • Public Health
THERAPEUTIC SERVICES				
• Clinical Rotation • Dental Assisting • Health Aide • Medical Assistant	• Certified Nurse's Aid • Dental Assisting • Licensed Practical Nurse • Massage Therapy	• Dental Hygiene • Licensed Practical Nursing • Pre-Medicine • Surgical Technology	• Athletic Training/Exercise • Science • Dietetics • Pre-Medicine • Recreational Therapy	• Clinical Nutrition • Dentistry • Medicine • Nurse Anesthetist • Pharmaceutical Services

HOSPITALITY AND TOURISM

The Hospitality and Tourism Cluster prepares learners for careers in the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel-related services. Hospitality operations are located in communities throughout the world.

Pathways:

- Lodging
- Recreation, Amusements, and Attractions
- Restaurant and Food/Beverage Services
- Travel and Tourism

Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• World Languages • AP Human Geo • Art Electives	• World Languages • Art Electives	• World Languages • Psychology • AP Psychology • AP Economics • Art Electives	• World Languages • Art Electives
Career & Technical Education	• Web Design • Food Family & Society • Career Pathways	• Food Science • Food & Hospitality • Digital Publications	• TC Business Core • Sports Marketing • Accounting Principles	• TC Accounting I & II • See Work-Based Learning Options below

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
English	• English I R/H/Essentials	• English II R/H/Essentials • AP Lang/US History • Speech	• English III R/H/Essentials • AS Oral and Interpersonal Communication • AP Lang & Composition	• AS Written Communications • TC English 101/102 • AP Lit & Comp • Contemporary Media & Lit • English IV Essentials
Math	• Essentials I • Algebra I • Geometry	• Essentials II • Algebra II	• Adv. Math Applications • Pre-Calculus • AP Statistics	• AS Technical Math • TC Math 105/110
Science	• Biology • Agriscience	• Chemistry • Earth & Space Science	• AP Environmental Science	• Science Elective
Social Studies	• US History & American Government R/Essentials/AP	• American Republic R/Essentials • AP Lang/US History • AP US History	• World Studies R/Essentials • AP World History • AP European History	• Psychology R/AP or Social Science Elective
Other Required	• Computer Applications • Healthy Choices • Physical Education	• Physical Education • Computer Applications	• Consumer & Personal Finance • Physical Education	• Physical Education • Consumer & Personal Finance
Work-Based Learning Options	Family & Consumer Sciences Internship, Business Internship, Youth Apprenticeship			
Other Activities	Arts Club, FBLA, National Honor Society, Pathway Partners, Youth Service Learning, Drama Club, Madrigals, Musicals, Plays, Student Council			

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
LODGING				
• Bell Captain • Guestroom Attendant • Reservationist	• Hotel Management	• Hotel Management	• Business Administration • Lodging Management • Sales and Marketing	
RECREATION, AMUSEMENTS & ATTRACTIONS				
• Museums/Zoo/Aquarium • Docent • Resort Instructor • Theme Parks Retail Manager			• Business Administration • Management • Recreation, Fitness and Leisure Studies • Sports and Fitness Management	• Business Administration
RESTAURANT AND FOOD/BEVERAGE SERVICES				
• Cook • Dishwasher • Wait Staff	• Culinary Arts and Management • Dietary Management • Food Services/Hospitality • Food Service Management		• Food Service/Hospitality • Food Service Management • Hospitality Management • Restaurant and Food Service Administration • Travel and Tourism	• Restaurant/Food Service Administration
TRAVEL AND TOURISM				
• Event Planner • Ticket Agent • Tour Guide • Travel Agent	• Business Administration • Travel and Tourism	• Business Administration • Sales and Marketing • Travel and Tourism	• Business Administration • Marketing • Operations Management	• Business Administration

HUMAN SERVICES

This Program of Study prepares individuals for employment in career pathways related to families and human needs. This includes preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.

Pathways:

- Early Childhood Development & Services
- Counseling & Mental Health Services
- Family & Community Services
- Personal Care Services
- Consumer Services

Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• Art Electives • Music Electives • World Languages • AP Human Geo	• Art Electives • Music Electives • World Languages	• Art Electives • Music Electives • AP Psychology • World Languages	• Art Electives • Music Electives • World Languages
Career & Technical Education	• Career Pathways • Caregiving & Community • Family Dynamics • Food • Family & Society •	• Connecting Generations • Exploring Health Careers • Parents & Children • Sports Medicine I (SS)	• TC Accounting I & II • TC Careers w/ Kids	• See Work-Based Learning Options below
English	• English I R/H/Essentials	• English II R/H/Essentials • AP Lang/US History • Speech	• English III R/H/Essentials • AS Oral and Interpersonal Communication • AP Lang. & Composition	• AS Written Communication • TC English 101/102 • AP Lit & Comp • Contemporary Media & Lit • English IV Essentials

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Math	• Essentials I • Algebra I	• Essentials II • Geometry II	• Advanced Math Applications • Algebra II	• AS Technical Math • TC Math 105/110 • Pre-Calculus, AP Statistics
Science	• Biology • Agriscience • Earth and Space Science	• Chemistry • AP Biology	• Physics • AP Environmental Science • Anatomy & Physiology	• Electives
Social Studies	• US History & American Gov Essentials/R/AP	• American Republic R/Essentials • AP US History • AP Lang/US History	• World Studies Essentials/R • AP World History • AP European History	• Electives
Other Required	• Computer Applications • Healthy Choices • Physical Education	• Physical Education • Computer Applications • Healthy Choices	• Consumer & Personal Finance • Physical Education	• Consumer & Personal Finance • Physical Education
Work-Based Learning Options	Family & Consumer Sciences Internship, Business Internship, TC Health Career Connections, Future Teacher Internship, Sports Medicine II			
Other Activities	FBLA, FCCLA, National Honors Society, Pathway Partners, Student Council, HOSA, Youth Service Learning			

Career Types by Pathway

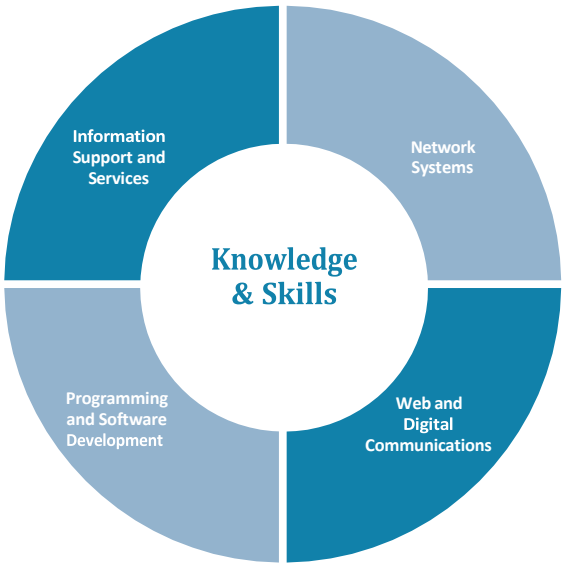
HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
CONSUMER SERVICES				
• Call Center • Customer Service	• Certified Financial Planner • Wellness		• Family Science • Family Financial Management • Human Services • Business Administration	• Family Science • Human Services • Business Administration
COUNSELING & MENTAL HEATH SERVICE				
		• Human Services • Chemical Dependency Counselor	• Human Services • Psychology • Social Work • Human and Social Services Administration	• Marriage and Family Therapy • Psychology • Social Work • Community Counseling
EARLY CHILDHOD DEVELOPMENT & SERVICES				
	• Nanny • Parenting	• Early Childhood Education	• Family Science • Special Education and Communication Disorders	• Child Development • Early Childhood Education • Special Education and Communication Disorders
FAMILY & COMMUNITY SERVICES				
	• Para-educator • Family Life Specialist • Spirituality • Biblical Studies	• Human Services • Theology	• Human Services • Psychology • Nutrition, Fitness and Health Promotion • Gerontology • Family Science • Social Work	• Family Science • Psychology • Social Work • Human Services
PERSONAL CARE SERVICES				
	• Barbering/Cosmetology • Nail Technology • Esthetics • Massage Therapy	• Mortuary Science • Cosmetology	• Pre-Mortuary Sciences	

INFORMATION TECHNOLOGY

The Information Technology/Computing Program of Study (POS) involves the design, development, support and management of hardware, software, multimedia and systems integration services. In addition to careers in the IT industry, IT careers are available in every sector of the economy - from Financial Services to Medical Services, Business to Engineering and Environmental Services. Anyone preparing for an IT career should have a solid grounding in math and science. There are obvious connections between Information Technology and other programs of study (please see those in parentheses below for possible opportunities). Pathways in this Program of Study include:

Pathways:

- Information Support and Services
  (Arts, AV Technology, and Communications, STEM)
- Network Systems (STEM)
- Programming and Software Development
  (Manufacturing, STEM)
- Web and Digital Communications
  (Arts, AV Technology, and Communications; Marketing, STEM)



Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• World Languages • AP Human Geography	• World Languages	• World Languages • AP Economics • Psychology AP Psychology	• World Languages
Career & Technical Education	• Introduction to Programming • Electronics • Introduction to Engineering Design (PLTW)	• Computer Hardware Systems • Intermediate Programming • Web Design • Digital Publications • Electricity and Electronics	• Computer Networking • TC Business Core • Intermediate Programming • Advanced Web Design	• AP Computer Science • See Work-based Learning Options below

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
English	• English I R/H/Essentials	• English II R/H/Essentials • AP Lang/US History	• English III R/H/Essentials • AS Oral and Interpersonal Communication	• AS Written Communication • TC English 101/102 • AP Lit & Comp • Contemporary Media & Lit • English IV Essentials
Math	• Essentials I • Algebra I • Geometry	• Essentials II • Geometry • Algebra II	• Adv. Math Applications • Algebra II • Pre-Calculus • AP Statistics	• AS Technical Math • TC Math 105/110 • AP Calculus
Science	• Biology • Agriscience • Earth & Space Science	• Chemistry • Earth & Space Science	• AP Biology • AP Chemistry • Physics • AP Environmental Science	• AP Physics
Social Studies	• US History & American Gov R/Essentials/AP Government	• American Republic R/Essentials, • AP US History • AP Lang/US History	• World Studies R/Essentials • AP World History • AP European History	• Psychology
Other Required	• Computer Applications R/H • Healthy Choices • Physical Education	• Physical Education • Computer Applications R/H	• Consumer & Personal Finance • Physical Education	• Physical Education • Consumer & Personal Finance
Work-Based Learning Options	Business Internship, Youth Apprenticeship			
Other Activities	Arts Club, FBLA, National Honor Society, Pathway Partners Mentoring Program, Skills USA, Youth Service Learning			

INFORMATION TECHNOLOGY

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
INFORMATION SUPPORT AND SERVICES				
• Help Desk Assistant	• Electronics Technology • Information Technology • Microsoft Certified • Database Administrator • Microsoft Office Specialist • Oracle Certification Professional	• Helpdesk/Microcomputer Support • Information Technology • Computer Information Systems • Database Supports • Technical Support	• Computer Information Systems Management • Information Systems • Mass Communication/ Media Studies • Web/Multimedia Management	• Computer Information Systems • Computer Science Management • Information Systems
NETWORK SYSTEMS				
• Network Technician	• Cisco Training • Electronics Technology • Information Technology • Microsoft Certified • Systems Engineer Certified • CompTIA Network+ Certified	• Computer and Information Sciences • Computer Technology • Electronics Technology • Information Technology • Networking Technology	• Computer Science • Computer Engineering • Computer Systems Analysis • Management Information Systems • Telecommunications Management	• Computer Science • Computer Engineering • Information Technology • Telecommunications Engineering
PROGRAMMING AND SOFTWARE DEVELOPMENT				
	• Information Technology • Computer Programming • Vendor/Product Certification	• Computer Programming • Computer Programming Technology • Computer Technology Information Technology	• Computer Information Systems • Computer Programming • Computer Software Engineering • Computer Science • Management Info Systems	• Computer Programming • Computer Science • Information Resources Management • Information Technology • System Administration
WEB AND DIGITAL COMMUNICATIONS				
• Web Designer	• Animation • Information Technology • Multimedia • Certified Professional Webmaster • CompTIA I-Net+ Certification	• Electronic Imaging • Information Technology • Interactive Media • Media Arts • Web Development and Support	• Commercial Art • Computer and Information Sciences • Design and Visual Communication • Multimedia Communication	• Computer Science

LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY

The Law, Public Safety and Security Cluster helps prepare students for careers in planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.

Pathways:

- Correction Services
- Emergency and Fire Management Services
- Law Enforcement Services
- Legal Services
- Security and Protective Services

Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• World Languages	• World Languages	• World Languages • AP Economics • Psychology AP Psychology	• World Languages
Career & Technical Education	• Caregiving & Community • Exploring Health Careers • Family Dynamics • Career Pathways	• Forestry • Wildlife Mgmt • Connecting Generations	• Medical Terminology R & H/TC • AP Human Geography • TC Careers with Kids	• See Work-Based Learning Options below
English	• English I R/H/Essentials	• English II R/H/Essentials • AP Lang/US Hist • Speech	• English III R/H/Essentials • AS Oral and Interpersonal Communication • AP Language & Composition	• AS Written Comm • TC English 101/102 • AP Lit & Comp • Contemporary Media & Lit • English IV Essentials

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Math	• Essentials I • Algebra I • Geometry	• Essentials II • Algebra II	• Adv. Math Applications • Pre-Calculus • AP Statistics	• AS Technical Math • TC Math 105/110 • AP Calculus
Science	• Biology • Agriscience • Earth & Space Science	• AP Biology • ES Animal Science	• Chemistry • Physics • AP Environmental Science	• Science Elective
Social Studies	• US History & American Government Essentials/R/AP	• American Republic Essentials/R, AP U.S. History • AP Lang./US Hist	• World Studies Essentials/R • AP World History, AP Euro History	• Crime, Justice & Law, Psychology R/AP
Other Required	• Computer Applications, Healthy Choices, Physical Education	• Physical Education, Computer Applications	• Consumer & Personal Finance • Physical Education	• Physical Education • Consumer & Personal Finance
Work-Based Learning Options	Business Internship			
Other Activities	National Honor Society, Pathway Partners, Youth Service Learning, Student Council			

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
CORRECTION SERVICES				
• Correctional Officer • Security Officer	• Criminal Justice	• Criminal Justice • Corrections Option • Parole Option • Probations Option	• Human Services • Criminal Justice • Social Work • Pre-Law	• Law and Legal Services • Criminal Justice
EMERGENCY AND FIRE MANAGEMENT SERVICES				
• Police, Fire and Ambulance Dispatch • Volunteer Fire Fighting	• Emergency Medical Technician (EMT) • Basic/ Intermediate/ Paramedic • Emergency Management • Fire Science Technology • Hazardous Materials Technician	• Emergency Medical Technician (EMT) • Fire Protection • Fire Science Technology	• Emergency Medical Services	
LAW ENFORCEMENT SERVICES				
• Animal Control • Parking Enforcement	• Criminal Justice	• Criminal Justice • Law Enforcement	• Criminal Justice	• Criminal Justice
LEGAL SERVICES				
	• Paralegal Studies	• Administrative Assistant • Legal Paralegal/ Legal Assistant • Criminal Justice - Court Emphasis	• Paralegal Studies • Pre-Law/ Legal Studies • Criminal Justice	• Law and Legal Studies Criminal Justice
SECURITY AND PROTECTIVE SERVICES				
		• Criminal Justice - Law Enforcement • Law Enforcement	• Criminal Justice • Law and Legal Studies	• Criminal Justice

MANUFACTURING

The Manufacturing Program of Study (POS) focuses on planning, managing and performing the processing of materials into intermediate or fi products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering. There are obvious connections between manufacturing and other programs of study (please see those in parentheses below for possible opportunities). Pathways in this program include:

Pathways:

- Health, Safety & Environmental Assurance
  (Agriculture and Natural Resource, Health Science, STEM) **Median *Pay***
- Logistics & Inventory Control (STEM) **Median *Pay***
- Maintenance, Installation & Repair (STEM) **Median *Pay***
- Manufacturing Production Process Development
  (Business and Management, STEM) ***Median Pay***
- Production (STEM) ***Median Pay***

Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• World Languages • AP Human Geography	• World Languages • Art	• World Languages • AP Economics • AP Psychology	• World Languages
Career & Technical Education	• Electricity & Electronics • Intro to Metal Tech • Intro to Programming • Intro to Engineering Design (PLTW)	• Comp Hardware Systems • TC Metal Tech I • Principles of Engineering (PLTW)	• TC Metal Technology II • TC Business Core • Digital Electronics (PLTW)	• TC Metal Tech Capstone • See Work-Based Learning Options below • Civil Engineering and Architecture (PLTW)

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
English	• English I R/H/Essentials	• English II R/H/Essentials • AP Lang/US History	• English III R/H/Essentials • AS Oral and Interpersonal Communication • AP Lang & Comp	• AS Written Communication • TC English 101/102 • AP Lit & Comp • Contemporary Media & Lit • English IV Essentials
Math	• Algebra I • Essentials I • Geometry	• Essential II • Algebra II	• Adv. Math Applications • Pre-Calculus AP Statistics	• AS Technical Math • AP Calculus
Science	• Agriscience • Earth and Space Science	• Biology	• AP Environmental Science • Physics	• AP Physics
Social Studies	• US History & American Gov Essentials/R/AP	• American Republic Essentials/R • AP US History • AP Lang/US History	• World Studies Essentials/R • AP World History • AP European History	• Elective
Other Required	• Computer Applications, Healthy Choices • Physical Education	• Physical Education • Computer Applications	• Consumer & Personal Finance • Physical Education	• Physical Education • Consumer & Personal Finance
Work-Based Learning Options	Youth Apprenticeship			
Other Activities	FFA, National Honor Society, Pathway Partners, Skills USA, Youth Service Learning			

MANUFACTURING

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
HEALTH, SAFETY AND ENVIRONMENTAL ASSURANCE				
	• Occupational Safety and Health	• Environmental Engineering Technology • Environmental Studies • Occupational Safety and Health	• Environmental Engineering • Environmental Studies • Occupational Safety and Health	• Environmental Biology • Environmental Studies • Occupational Safety and Health
LOGISTICS AND INVENTORY CONTROL				
• Heavy Equipment Operation • Industrial Truck and Tractor Operation • Material Handling	• Truck Driving	• Logistics and Materials Management • Industrial Truck and Tractor Operation • Transportation, Distribution and Logistics	• Logistics and Materials Management • Industrial Truck and Tractor Operation • Transportation, Distribution and Logistics	• Logistics and Materials Management
MAINTENANCE, INSTALLATION AND REPAIR				
• Business Machine Technology • Custodial Services • Electronics Technology	• Computer Installation and Repair • Electronics Technology • Industrial Mechanics	• Diesel Technology • Manufacturing Technology • Mechanical Engineering Technology • Industrial Technology	• Biomedical Technology • Manufacturing Technology • Mechanical Engineering Technology	
MANUFACTURING PRODUCTION PROCESS DEVELOPMENT				
• Construction Trades	• Construction Trades	• Architectural Engineering Technology • Automotive Engineering Technology • Drafting & Design Technology	• Architectural Engineering • Civil Engineering • Computer Engineering	• Architecture • Civil Engineering • Construction Management and Inspection • Transportation and Highway Engineering
PRODUCTION				
• Iron Working • Precision Production • Upholstering and Leather Working • Woodworking	• Iron Working • Precision Production • Upholstering and Leather Working • Welding	• Building Construction • Electrical and Electronics Engineering Technology • Iron Working	• Computational Mathematics • Electrical and Electronics Engineering Technology • Operations Management	• Computational Mathematics • Operations Management
QUALITY ASSURANCE				
	• Quality Control Technology	• Occupational Safety and Health • Quality Control Technology	• Occupational Safety and Health • Quality Control Technology	• Occupational Safety and Health

MARKETING

This Program of Study prepares learners for careers in planning, managing and performing marketing activities to reach organizational objectives. These include areas such as brand management, professional sales, merchandising, marketing communications and market research.

Pathways:

- Marketing Management
- Professional Sales
- Merchandising
- Marketing Communications
- Marketing Research

Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics •

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• World Languages • Drama • Intro to Design	• World Languages	• World Languages • AP Economics • Psychology	• World Languages
Career & Technical Education	• Web Design • AP Human Geography	• Sports Marketing • Food & Hospitality	• TC Business Core • Adv. Web Design	• TC Accounting I & II, • Work-Based Learning Options below
English	• English I R/H/Essentials	• English II R/H/Essentials • AP Lang/US History • Speech	• English III R/H/Essentials • AS Oral and Interpersonal Communication • AP Lang & Comp	• AS Written Comm • TC English 101/102 • AP Lit & Comp • Contemporary Media & Lit • English IV Essentials

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Math	• Essentials I • Algebra I • Geometry	• Essentials II • Algebra II	• Advanced Math Applications • Pre-Calculus • AP Statistics	• AS Technical Math • Math 105/110 • AP Calculus
Science	• Biology • Earth & Space Science • Agriscience	• Chemistry • AP Biology • Earth & Space Science	• AP Biology • AP Chemistry • Physics, AP Environmental Science	• Science Electives
Social Studies	• US History & American Gov R/Essentials/AP	• American Republic R/Essentials • AP US History, AP Lang/US History	• World Studies • AP World History • AP European History	• Crime Justice & Law or Social Science Elective
Other Required	• Computer Applications R/H • Healthy Choices • Physical Education	• Physical Education • Computer Applications R/H	• Consumer & Personal Finance • Physical Education	• Consumer & Personal Finance • Physical Education
Work-Based Learning Options	Business Internship, Youth Apprenticeship, Family & Consumer Sciences Internship			
Other Activities	Arts Club, FBLA, FCCLA, Musicals, Madrigals, Plays, National Honor Society, Pathway Partners, Student Council, Youth Service Learning			

MARKETING

Career Types by Pathway

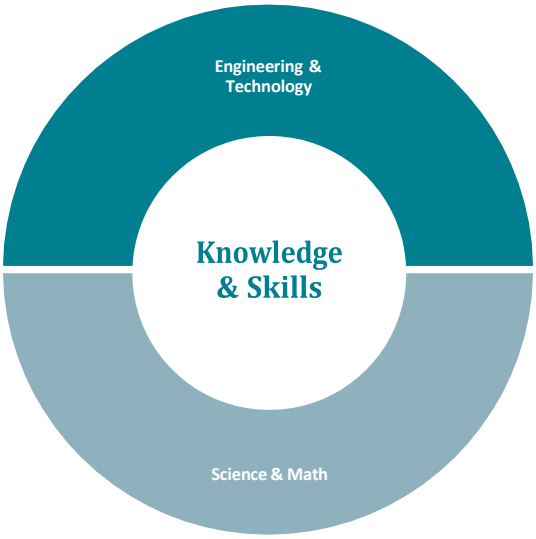
HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
MARKETING COMMUNICATIONS				
	• Practitioners • Public Relations • Public Relations Society of America	• Business • Marketing • Small Business Management	• Business Administration • Communication • Management • Marketing • Public Relations	• Master of Business • Administration • Master of Marketing
MARKETING MANAGEMENT				
• Industry and Trade Association Programs • Conferences Seminars		• Business Administration • Entrepreneurship • Management • Marketing • Small Business Management	• Business Administration • Management • Marketing	• Master of Business • Administration • Master of Marketing
MARKETING RESEARCH				
	• Product Vendors • Professional and Technical Organizations • Software Firms	• Business • Continued Education for Rapid Technological Advances • Marketing	• Business Administration • Economics • Information Science • Information Systems • Management • Marketing	• Master of Business Administration • Master of Marketing
MERCHANDISING				
		• Business • Administration Business • Marketing • Merchandising • Sales • Customer Service • Small Business Management	• Business Administration • Management	• Master of Business Administration
PROFESSIONAL SELLING				
	• Management	• Business • Business Administration • Customer Service • Marketing • Retail Management • Sales • Small Business Management	• Business Administration • Management • Marketing	• Master of Business Administration • Master of Marketing

STEM (SCIENCE, TECHNOLOGY, ENGINEERING & MATH)

This Program of Study prepares learners for careers in designing, planning, managing, building and maintaining the building environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs

Pathways:

- Engineering & Technology
- Science & Math



Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• World Languages • AP Human Geography • Principles of Biomedical Sciences (PLTW)	• World Languages • Drawing, Human Body Systems (PLTW)	• World Languages • AP Economics • AP Psychology • Medical Intervention (PLTW)	• World Languages • Biomedical Innovations (PLTW)
Career & Technical Education	• Electronics & Electricity • Intro to Metal Tech • Intro Programming • Web Design • Intro to Engineering Design (PLTW)	• Comp Hardware Sys • TC Metal Tech I • Adv. Web Design • Intermediate Programming • Principles of Engineering (PLTW)	• Computer Networking • TC Metal Tech II • TC Business Core • AP Comp Science • Digital Electronics (PLTW)	• Construction Tech Capstone • TC Metal Tech Capstone • See Work-Based Learning Options below • Civil Engineering and Architecture (PLTW)

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
English	• English I R/H/Essentials	• English II R/H/Essentials • AP Lang/US History • Speech	• English III R/H/Essentials • AS Oral and Interpersonal Communication • AP Lang & Comp	• AS Written Communication • TC English 101/102 • AP Lit & Comp • Contemporary Media & Literature • English IV Essentials
Math	• Algebra I • Geometry	• Algebra II	• Adv. Math Applications • Pre-Calculus, • AP Statistics	• AS Technical Math • Math 105/110 AP Calculus
Science	• Biology • Earth and Space	• Chemistry • AP Biology	• Anatomy and Physiology	• Physics
Social Studies	• US History & American Gov R/Essentials/AP	• American Republic R/Essentials • AP US History • AP Lang/US History	• World Studies • AP World History • AP European History	• Psychology R/AP • or Social Science Elective
Other Required	• Computer Applications, Healthy Choices • Physical Education	• Physical Education • Computer Applications	• Consumer & Personal Finance • Physical Education	• Consumer & Personal Finance • Physical Education
Work-Based Learning Options	Youth Apprenticeship			
Other Activities	National Honor Society, Pathway Partners, Skills USA, Youth Service Learning			

Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
SCIENCE AND MATHEMATICS				
		• Biology • Chemistry • Laboratory Science Technology • Medical Laboratory Technology	• Chemistry • Economics • Mathematics • Molecular Biology • Physics	• Biochemistry • Biological Sciences • Chemistry • Physics and Astronomy • Statistics
ENGINEERING AND TECHNOLOGY				
	• Industrial Technology	• Architectural Design Technology • Civil Engineering Technology • Industrial Technology • Surveying and Computer Aided Drafting (CAD)	• Agricultural Engineering • Biological Systems Engineering • Chemical Engineering • Construction • Engineering Technology • Industrial Engineering	• Agricultural and Biological Systems • Architectural Engineering • Chemical Engineering • Civil Engineering • Mechanical Engineering

TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

This Program of Study exposes students to careers and businesses involved in the planning, management, and movement of people, materials, and products by road, air, rail and water. It also includes related professional and technical support services such as infrastructure planning and management, logistic services, and the maintenance of mobile equipment and facilities.

Pathways:

- Facility and Mobile Equipment Maintenance
- Health, Safety and Environmental Management
- Logistics Planning and Management Services
- Sales and Services
- Transportation Operations
- Transportation/Systems Infrastructure Planning Management, and Regulations
- Warehousing and Distribution Center Operations

Suggested Learning Experiences

Middle School Electives		
Courses	**Grade 7**	**Grade 8**
Additional Electives	• Band • Choir • Orchestra • Advanced Art 7 • Exploring AgriScience • Exploring French & Spanish • Online Language Exploration	• Advanced Art 8 • Art 8 • Online Language Exploration • Exploring French & Spanish • French I • Spanish I • Band • Choir • Orchestra • Exploring AgriScience & Gateway Innovation & Robotics

High School Electives				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
Additional Electives	• World Languages • AP Human Geography	• World Languages	• World Languages • AP Economics	• World Languages
Career & Technical Education	• Electricity & Electronics • Intro to Metal Tech • Intro to Engineering Design (PLTW)	• Small Engine and Repair • Prin of Engineering (PLTW) • Accounting Principles	• TC Business Core, TC Accounting I & II • TC Metal Tech II • Auto ABC's, Adv. Automotives • Digital Electronics (PLTW)	• Trans Systems Capstone • See Work-Based Learning Options below • Civil Engineering and Architecture (PLTW)

High School Electives Cont.				
Courses	**Grade 9**	**Grade 10**	**Grade 11**	**Grade 12**
English	• English I R/H Essentials	• English II R/H/Essentials • AP Lang/US History • Speech	• English III R/H/Essentials • AS Oral and Interpersonal Communication • AP Lang & Comp	• AS Written Comm • TC English 101/102 • AP Lit & Comp • Contemporary Media & Lit • English IV Essentials
Math	• Essentials I • Algebra I • Geometry	• Essentials II • Algebra II	• Adv. Math Applications • Pre-Calculus • AP Statistics	• AS Technical Math • TC Math 105/110 • AP Calculus
Science	• Biology • Agriscience • Earth & Space Science	• AP Biology • Chemistry	• AP Environmental Science • Physics	• AP Physics • AP Chemistry
Social Studies	• US History & Amer. Gov. AP/R/Essentials	• American Republic R/Essentials • AP US History • AP Lang/US History	• World Studies R/Essentials • Criminal Justice & Law	• Elective
Other Required	• Computer Applications • Healthy Choices • Physical Education	• Physical Education • Computer Applications	• Consumer & Personal Finance • Physical Education	• Consumer & Personal Finance • Physical Education
Work-Based Learning Options	Youth Apprenticeship			
Other Activities	FFA, National Honor Society, Pathway Partners, Skills USA, Youth Service Learning			

TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

Career Types by Pathway

High School Diploma/ON-THE-JOB-TRAINING	Certificate/License	Associate's Dress	Bachelor's Degree	Master's/Doctoral Professional Degree
FACILITY & MOBILE EQUIPMENT MAINTENANCE				
• Auto Body Repair • Automotive and Diesel Technology	• Auto Body Repair • Auto Mechanics • Aviation Airframe Maintenance • Industrial Maintenance Electronics	• Aeronautical and Aerospace Engineering Technology • Automotive Technology • Aviation Airframe Maintenance • Electronic Technology	• Engineering • Industrial Engineering • Mechanical Engineering	• Industrial and Management • Systems Engineering • Mechanical Engineering
HEALTH, SAFETY & ENVIRONMENTAL MANAGEMENT				
		• Environmental Engineering Technology	• Engineering Physics • Environmental Engineer • Environmental Science • Environmental Studies • Industrial Engineering	• Environmental Engineering • Environmental Science • Environmental Studies
LOGISTICS PLANNING & MANAGEMENT SERVICES				
	• Business	• Business Administration • Industrial Technology • Logistics and Materials Management	• Business Administration • Industrial Distribution • Industrial Technology Management • Technology Operations Management • Logistics and Material Management	• Engineering Management • Industrial and Management • Systems Engineering • Operations Management
SALES AND SERVICE				
• Cashier • Customer Service • Travel Agent	• Desktop Publishing • Entrepreneurship • Parts, Sales and Management • Travel Services	• Business Marketing • Marketing Management • Parts, Sales and Management	• Advertising • Business • Marketing	• Advertising • Business • Marketing
TRANSPORTATION OPERATIONS				
• Taxi Driving • Locomotive Engineering • Bus Driving • Truck Driving	• Air Traffic Control • CDL Driver Training Class A, B • Commercial Pilot and Flight Crew Training • Vehicle and Equipment Operations	• Air Traffic Control • Commercial Pilot and Flight Crew Training	• Air Traffic Control	
TRANSPORTATION SYSTEMS, INFRASTRUCTURE, PLANNING, MANAGEMENT & REGULATION				
		• Civil Engineering • Surveying and CAD	• Aviation Systems Management • Civil Engineering • Maritime Studies • Naval Architecture and Marine Engineering	• Civil Engineering • Engineering Management • Naval Architecture and Marine Engineering
WAREHOUSING & DISTRIBUTION CENTER OPERATIONS				
• Shipping and Receiving • Storage and Distribution	• CDL Driver Training Class A, B • Forklift Training	• Business, Logistics and Materials Management • Warehouse Management	• Business, Logistics and Material Management	• Logistics and Material Management

COURSE OFFERINGS: MIDDLE SCHOOL

Middle School Contacts

Michael J. Nicksic
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Susan Schalow
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AD Secretary
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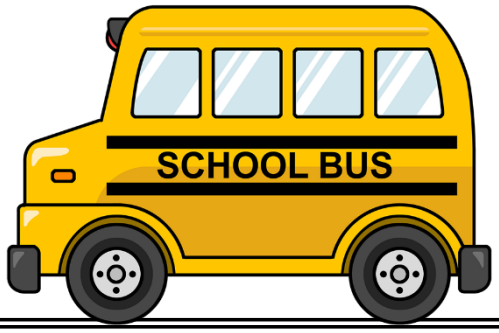
MIDDLE SCHOOL DAILY SCHEDULE

PERIOD	*TIME*
1st	**7:45-8:28**
2nd	**8:32-9:15**
3rd	**9:19-10:05** *Announcements*
4th	**10:09-10:51**
5th (8th Grade)	**10:55-11:38**
7th Grade Lunch/Learn **Lunch- 7-1** Learn- 7-2 **Lunch 7-2** Learn- 7-1	**10:55-11:15** **11:18-11:38**
5th (7th Grade)	**11:42-12:25**
8th Grade Lunch/Learn **Lunch-8-1** Learn- 8-2 **Lunch 8-2** Learn- 8-1	**11:42-12:02** **12:05-12:25**
6th	**12:29-1:12**
7th	**1:16-1:59**



Marshfield Bus Service
387-0101

COURSE OF STUDY: MIDDLE SCHOOL

Grade Seven

Required: Five credits for grade advancement

English (1 cr.)	Year
Advanced English ** (1. cr.)	Year
Global Studies (1 cr.)	Year
Advanced Global Studies ** (1 cr.)	Year
Transition Math ** (1 cr.)	Year
Mathematics (1 cr.)	Year
Pre-Algebra ** (1 cr.)	Year
Science (1 cr.)	Year
Advanced Science ** (1 cr.)	Year
Health (1/2 cr.)	Semester
Physical Education (1/2 cr.)	Semester
Exploratory Wheel:	Quarter
Art (1/4 cr.)	
BizKids (1/4 cr.)	
Gateway Design & Modeling (1/4 cr.)	
Family & Consumer Science (1/4 cr.)	

**** Screened for placement**

Electives

Band (1/2 cr.)	Year*
Choir (1/2 cr.)	Year*
Orchestra (1/2 cr.)	Year*
Advanced Art 7** (1/2 cr.)	Year*
Exploring AgriScience (1/2 cr.)	Semester
Personalized World Languages (1/2 cr.)	Semester

***Meets every other day**

Grade Eight

Required: Five credits for grade advancement

English (1 cr.)	Year
Advanced English ** (1 cr.)	Year
Global Studies (1 cr.)	Year
Advanced Global Studies ** (1 cr.)	Year
Transition Math ** (1 cr.)	Year
Pre-Algebra (1 cr.)	Year
Algebra ** (1 cr.)	Year
Science (1 cr.)	Year
Advanced Science ** (1 cr.)	Year
Career Quest (1 cr.)	Year
Physical Education (1/2 cr.)	Semester

****Screened for placement**

Electives

Advanced Art 8 (1/2 cr.)	Semester
Art 8 (1/2 cr.)	Semester
Personalized World Languages (1/2 cr.)	Semester
Exploring French & Spanish (1/2 cr.)	Semester
French I (1 cr.)	Year
Spanish I (1 cr.)	Year
Band (1 cr.)	Year
Choir (1 cr.)	Year
Orchestra (1 cr.)	Year
Exploring AgriScience (1/2 cr.)	Semester
Gateway Innovation & Robotics (1/2 cr.)	Semester

Grade Eight students must have at least 1 elective credit, but no more than 2.5 credits. Students may not repeat previously taken electives, with the exception of band, choir and orchestra.

It is important to remember that the addition of electives reduces the number of study halls for the student.

COURSE DESCRIPTION

Grade Seven

ENGLISH ..... Credit: 1/YEAR

Students in Grade 7 English will focus on quality reading, writing, and speaking skills through the school year. Twice a year students will complete a book of choice project to prove understanding of targeted skills. Students will read two core novels, *The Outsiders* and *Walk Two Moons*. Students will complete an author study, complete a MLA research paper, write paragraphs routinely, complete an end of the year creative writing project, and work to master the persuasive essay format. Students will participate in debate, complete oral presentations, and participate in classroom discussion on a regular basis. Students will come to use a working knowledge of literature terms throughout the year as they study short stories, poems, novels, and plays. Grammar and writing structure will continue to be addressed within each unit.

ADVANCED ENGLISH..... Credit: 1/YEAR

The goals of this course are to develop students' skills in literary analysis and interpretation, persuasive writing, linguistic competency and oral communication, as well as to strengthen reasoning skills and understanding of the concept of change. The units engage students in exploring carefully selected, challenging works of literature from various times, cultures and genres, and they encourage students to reflect on their readings through writing and discussion. The units also provide numerous opportunities for students to explore interdisciplinary connections and to conduct research around issues relevant to their own lives. Students will complete a MLA research paper on a topic related to the 1940's with a bibliography and present their findings to the class. Advanced vocabulary comprehension and usage will be emphasized. Students will be expected to work independently and be able to read and perform at a level which is at least two grade levels higher in order to achieve success within this class.

GLOBAL STUDIES..... Credit: 1/YEAR

This course covers Greek and Roman Civilizations, the continents of Europe, South America and North America-focusing on the countries of Germany, the United Kingdom, Russia, Venezuela, Cuba, Mexico and the United States. We will also be learning about World War I and World War II. These units will be covered from a historical, ethical, cultural, geographical and socio-political perspective. Students will be applying their knowledge in a variety of ways including writing, projects, presentations and assessments.

ADVANCED GLOBAL STUDIES..... Credit: 1/YEAR

This course is an accelerated class which focuses on critical thinking skills, concept development and analysis to increase a student's understanding of geography, cultures and history in Greek and Roman civilizations, Europe, South America and North America.

Students will specifically look at the countries of Germany, United Kingdom, Russia, Venezuela, Cuba, Mexico and the United States; there will also be a section of study on World War I and World War II. Students will develop skills in the areas of discussion, writing and research. Students will be required to do a variety of assignments, for example, but not limited to, maps, worksheets, note-taking, reading for comprehension. Class participation is emphasized and the use of analytical devices is introduced. Students will use memorization, analysis and writing skills to demonstrate in-depth knowledge of units. Students will also be expected to do research projects during the course of the year. These projects will require research, writing and oral components.

TRANSITION MATH..... Credit: 1/YEAR

Open to students who have not acquired the basic skills needed to succeed in Mathematics 7. Enrollment is based on test data, classroom performance, and teacher recommendation only. This is a self-paced computer class using the Renaissance Math computer program. Students will be *assigned* to this class.

MATHEMATICS..... Credit: 1/YEAR

Seventh grade mathematics helps students develop the skills necessary to advance into pre-algebra. The course units cover rational numbers (fractions, decimals, percents, integers); algebraic concepts (expressions, equations and inequalities); geometry (two and three-dimensional shapes and working with formulas); probability and statistics.

PRE-ALGEBRA..... Credit: 1/YEAR

This class prepares students for algebra. Topics include: operation with rational numbers (fractions, decimals, percent, and integers); algebra expressions and properties; solving linear equations and graphs; proportions; analysis of geometric shapes and formulas; statistics, graphs, and simple probability. Students will be expected to participate in class and a considerable amount of time on homework is expected outside of class.

SCIENCE..... Credit: 1/YEAR

Students will explore life science topics from the cellular to the biosphere level. Topics include cell structure, function, division, and transport; photosynthesis, respiration, and fermentation; protein synthesis, genetics, evolution, and ecology. Various online and laboratory investigations/explorations will lead to an increased understanding of how the scientific method and the nature of science apply to students' personal lives

ADVANCED SCIENCE..... Credit: 1/YEAR

Although topics studied in this course are similar to those covered in the regular-level science class, the vocabulary, reading, writing, and discussion about specific content are presented at a higher level of comprehension which may include High School level critical thinking. The more specific detail covered in each of the content areas will require a significant effort on the student's part to independently complete the assigned readings and online investigations. Participation in class discussion, asking questions, and making inferences about those readings and investigations will be an essential part of mastering the target learning goals for advanced science students.

HEALTH..... Credit: 1/2 /SEMESTER

Explore a wide variety of health-related topics and adolescent issues and concerns. Key topics include: communication, practicing healthy behaviors, analyzing influences, accessing valid information, mental and emotional well-being, healthy relationships and sexuality, substance use and abuse, and first aid. Students will receive a solid foundation of health information equipping them with life skills to best handle the decisions and pressures adolescents face in today's world. Heavy emphasis is placed on healthy decision- making and healthy choices.

PHYSICAL EDUCATION..... Credit: 1/2 /SEMESTER

This course focuses on the development of skills and knowledge of movement that provides a foundation for enjoyment, continued social development, and access to a physically active lifestyle. Student's ability to manage their own behavior is reinforced to support safe practices and individual development. Appropriate active wear for both warm weather (t-shirts, shorts) and cool weather (second layer of sweats/wind suits) are required, as well as athletic shoes and socks.

EXPLORATORY WHEEL:

ART..... Credit: 1/4 /QUARTER

Hands-on activities provide students an opportunity to practice creative and critical problem-solving by developing skills in drawing, painting, sculpture, ceramics, printmaking and more. They will have the opportunity to experiment and refine skills using a variety of art media and styles. Elements and principles of design will be emphasized in each project

BIZKIDS..... Credit: 1/4 /QUARTER

This course will review the alphabetic keyboard and correct keyboarding skills, which will be reinforced throughout the course. Students will learn various Business and Marketing concepts while learning computer basics in MS Word and MS Publisher. Students will also learn to use their network drive for file management and will use the Internet to conduct meaningful searches.

FAMLY & CONSUMER SCIENCES (FACS)..... Credit: 1/4 /QUARTER

This nine-week course gives students a taste of what Family and Consumer Sciences (Facs) is all about. Students will have the opportunity to explore all aspects of Facs, including: food safety and sanitation, cooking, kitchen math, nutrition, fast- food comparison, goal setting, career exploration, hand-sewing and much more. This hands-on course allows for creativity and fun while learning what it means to be a productive student.

GATEWAY DESIGN AND MODELING..... Credit: 1/4 /QUARTER

This Project Lead the Way course offers middle school students the opportunity to use science, technology and mathematics in a new way to solve everyday problems. This hands on, minds on course allows students to apply skills as they learn them utilizing the design approach. They are introduced to and use the design process to solve problems and understand the influence that creative and innovative design has on our lives. They will use research, brainstorming, and the creation of models to better understand the design process. Students will use industry standard 3D modeling software to create a virtual image of their designs and produce a portfolio to showcase their creative solutions.

ELECTIVE COURSES

Grade Seven

ADVANCED ART ..... Credit: 1/2 /YEAR
EVERY OTHER DAY

Students will continue their excellence in two and three-dimensional studies in preparation for Advanced Art 8 and studio electives at the High School level.

7TH GRADE BAND..... Credit: 1/2 /YEAR
EVERY OTHER DAY

Seventh grade band is a fun and exciting musical experience. Technical and musical skills that were learned through 6th grade will be built upon and expanded. Students will also have the opportunity to participate in the solo-ensemble festival, advance their skills with regular lessons, practice with other classmates, and show off their talents at the winter and spring band concerts. Students with no band experience must contact the band director before enrolling.

7TH GRADE CHOIR..... Credit: 1/2 /YEAR

This class is for all students who love to sing and perform. Join with your fellow classmates to explore vocal harmony and choral performance. The choir has three concerts per year. All interested singers are welcome!

7TH GRADE ORCHESTRA..... Credit: 1/2 /YEAR
EVERY OTHER DAY

Advance your string playing skills by being a member of the middle school orchestra program. Orchestra offers a learning package that coordinates physical movement with world languages, math, literature, science and reading. Be a part of an organization that encourages self-confidence, team effort and an appreciation of the arts. Music, the universal language, can offer a lifetime of positive experiences. If you have no previous orchestra experience, please contact the orchestra director before enrolling.

EXPLORING AGRISCIENCE..... Credit: 1/2 /SEMESTER

Investigate plants, animals, and the environment in a hands-on manner. Grow your own plants to take home. Learn about wildlife and their relationship to the environment. Join FFA and participate in the club's many fun activities and competitions.

EXPLORING FRENCH & SPANISH..... Credit: 1/2 / SEMESTER

Survey French and Spanish by spending nine weeks on each language. Speak and write common words and phrases as well as glimpse the culture and customs of target countries.

PERSONALIZED WORLD LANGUAGES..... Credit: 1/2 /SEMESTER

This class offers every child a world-class, student-centered education through competency-based, blended and online learning, providing learners with powerful personalized learning experiences. This is a semester course surveying a variety of languages which may include, but not limited to Mandarin/Chinese, Russian, Italian, Latin, and German. Students will be allowed to choose one language they would like to learn in greater depth with guided assistance. Students need to be independent learners.

COURSE OFFERINGS: MIDDLE SCHOOL

COURSE DESCRIPTION

Grade Eight

ENGLISH ..... Credit: 1/YEAR

Using a range of texts of varied lengths, students will build skills in reading, writing, vocabulary acquisition, literary terminology application, and grammar/sentence structure.

ADVANCED ENGLISH..... Credit: 1/YEAR

Using a range of texts of varied lengths, students will build skills in reading, writing, vocabulary acquisition, literary terminology application, and grammar/sentence structure. Pacing moves more quickly than English 8 Regulars and students are expected to perform the above skills at an advanced level.

GLOBAL STUDIES..... Credit: 1/YEAR

Global Studies will explore the cultural and physical geography of Africa and Asia. The themes of economics and government systems will also be covered.

ADVANCED GLOBAL STUDIES..... Credit: 1/YEAR

Advanced Global Studies will explore the cultural and physical geography of Africa and Asia. The themes of economics and government systems will also be covered. The pace, depth, breadth and complexity of the advanced curriculum is different from that of the regular class with the goal of preparing the students for the rigors of high school Advanced Placement work.

TRANSITION MATH..... Credit: 1/YEAR

Eighth grade transitional math helps students develop the skills necessary to advance into a more abstract study of mathematics. It is a direct instruction class for students who struggle in math class. The course work includes: rational numbers (fractions, decimals, percent's, integers); algebraic concepts (expressions, equations and inequalities); and geometry (two dimensional shapes and working with formulas).

PRE-ALGEBRA..... Credit: 1/YEAR

This class prepares students for algebra. Topics include: operation with rational numbers (fractions, decimals, percent, and integers); algebra expressions and properties; solving linear equations and graphs; proportions; analysis of geometric shapes and formulas; statistics, graphs, and simple probability

ALGEBRA 1..... Credit: 1/YEAR

Completion of pre-algebra or acceptable performance on an algebra readiness test is the prerequisite for algebra. This class prepares students for geometry and advanced algebra. Topics include: algebra expressions and properties; solving linear equations, systems, and inequalities; graphing linear equations; polynomials; square roots; geometric formulas; quadratic equations. Students will be expected to participate in class and a considerable amount of time on homework is expected outside of class.

SCIENCE..... Credit: 1/YEAR

Start the year exploring the aspects of the scientific method. The remainder of the year is divided between introductory chemistry and physics. Significant time is spent in a hands-on environment.

ADVANCED SCIENCE..... Credit: 1/YEAR

Begin the year exploring aspects of the scientific method. Move on to an in-depth look at the 5 states of matter, the periodic table, chemical bonding, and the physical properties of light and sound. Students should possess advanced math and writing skills.

CAREER QUEST..... Credit: 1/YEAR

Identify and evaluate life and work choices while planning realistic career goals. Hands-on activities will be offered in Business and Information Technology, Family and Consumer Sciences, and Technology Education. Students will utilize decision making and problem-solving skills while exploring a variety of career choices. The Guidance Department will facilitate large groups related to high school and post -secondary career choices, development and completion of the Individual Learning Plan, Career Cluster Inventory and Creating My Future Portfolio.

PHYSICAL EDUCATION..... Credit: 1/2 /SEMESTER

This course focuses on the development of skills and knowledge of movement that provides a foundation for enjoyment, continued social development, and access to a physically active lifestyle. Student's ability to manage their own behavior is reinforced to support safe practices and individual development. Appropriate active wear for both warm weather (t-shirts, shorts) and cool weather (second layer of sweats/wind suits) are required, as well as athletic shoes and socks.

ELECTIVE COURSES

Grade Eight

ART 8..... Credit: 1/2 /SEMESTER

Express yourself! This is a hands-on multimedia class. Work with materials ranging from acrylic paint to clay. Learn applied science through ceramic glazes. Show your ideas and interests in a wide variety of styles and media. Exhibit your work in city wide art exhibitions.

ADVANCED ART 8..... Credit: 1/2 /SEMESTER

Advanced Art students from 7th grade continue their expressive media explorations as they prepare for high school studio art courses. Techniques taught include: ceramic casting, acrylic painting, slab rolling, artist sketching techniques, art history, and guided independent projects. Students who complete this course are able to directly take sophomore level classes (i.e. ceramics, jewelry, watercolor, drawing, etc.) when registering for 9th grade.

8TH GRADE BAND..... Credit: 1 /YEAR

Eighth grade band will challenge and excite those who choose to take this course. In addition to the advancement of musical and technical skills through daily rehearsals and regular lessons, students will have the opportunity to show their talents though the solo- ensemble festival, winter and spring band concerts, jazz band, and the annual 8th grade "Pops" concert. Students with no band experience must contact the band director before enrolling.

8TH GRADE CHOIR..... Credit: 1 /YEAR

Do you love to sing? Join your classmates in performing a wide variety of music in four concerts though out the year. All interested singers are welcome, regardless of experience.

8TH GRADE ORCHESTRA..... Credit: 1 /YEAR

Advance your string playing skills by being a member of the middle school orchestra program. Orchestra offers a learning package that coordinates physical movement with world languages, math, literature, science and reading. Be a part of an organization that encourages self-confidence, team effort and an appreciation of the arts. Music, the universal language, can offer a lifetime of positive experiences. If you have no previous orchestra experience, please contact the orchestra director before enrolling.

EXPLORING AGRISCIENCE..... Credit: 1/2 /SEMESTER

Investigate plants, animals, and the environment in a hands-on manner. Grow your own plants to take home. Learn about wildlife and their relationship to the environment. Join FFA and participate in the club's many fun activities and competitions.

EXPLORING FRENCH & SPANISH..... Credit: 1/2 / SEMESTER

Survey French and Spanish by spending nine weeks on each language. Speak and write common words and phrases as well as glimpse the culture and customs of target countries.

PERSONALIZED WORLD LANGUAGES..... Credit: 1/2 /SEMESTER

This class offers every child a world-class, student-centered education through competency-based, blended and online learning, providing learners with powerful personalized learning experiences. This is a semester course surveying a variety of languages which may include, but not limited to Mandarin/Chinese, Russian, Italian, Latin, and German. Students will be allowed to choose one language they would like to learn in greater depth with guided assistance. Students need to be independent learners.

FRENCH I..... Credit: 1 /YEAR

Learn to read, write and listen to the French language while enjoying an introduction to France and other French speaking countries. The class focus is on developing French conversational skills. Enjoy learning about the French culture through class activities which include music, videos and the always enjoyable French cuisine. Passing French I is an entry into French II and beyond to 5th year AP.

SPANISH I..... Credit: 1 /YEAR

Enjoy the expression of conversation in Spanish. Work on oral practice and listening comprehension, as well as the development of reading and writing skills. Introduce yourself to the culture of Spain, Latin America and the Hispanics living in the United States. Passing this course will allow you to take Spanish II as a freshman and continuation through high school would enable you to enroll in Spanish AP as a senior.

GATEWAY INNOVATION AND ROBOTICS..... Credit: 1/2 /SEMESTER

This Project Lead The Way course builds on the skills and experiences of Technology 7/ Gateway Design and Modeling and is the next step in helping students prepare for a technological world. Skills such as problem solving and teamwork will be stressed allowing students to make connections far beyond the classroom. Students will utilize VEX® Robotic Systems to design, build, and program solutions to challenging problems well exploring the development and influence of automation and robotics. Class activities will also push and inspire students to be innovators as they create and explore mechanical systems, energy transfer, machine automation and computer control systems.

ADVANCED COURSE APPLICATION PROCESS

Students should possess high level thinking skills, be willing to work at an accelerated pace, be an independent learner, self-driven, and have a high interest and motivation in the subject area. These courses move quickly and require extended time outside of the scheduled class to complete research, projects and assignments. Applicants should consider the above factors when deciding placement in an advanced course. Current grade of a B+ or better is recommended to ensure academic success.

To register for an advanced course the following steps must be followed:

- Students entering grade 7 must have a completed teacher recommendation on file from their 6th grade teacher (s). A letter will be sent home to all students' parents who have been recommended to enroll in advanced placement courses. No student will be registered if not on this list.

- Students entering grade 8 will automatically be placed in advanced classes that they were enrolled in during their seventh-grade school year. However, if a 7th grade teacher does not recommend a student continue in an advanced course, the student will be moved to the regular class. Students in regular courses during their 7th grade year wishing to enroll in advanced classes in grade 8, must have a completed teacher recommendation on file from their 7th grade teacher (s).

MATH PATHWAYS FOR GRADES 7-12

Technical College Preparation

Technical College, Strong Preparation

7- Math 7
8- Pre-Algebra
9- Algebra 1 R/H
10- Geometry R/H
11- Algebra 2 R/H
12- Math 105/110 **or** Technical Math

Technical College, Typical Preparation

7- Math 7
8- Pre-Algebra
9- Essentials 1
10- Essentials 2
11- Algebra 1 R
12- Geometry R

Technical College, Minimum Preparation

7- Transition Math 7
8- Transition Math 8
9- Essentials 1
10- Essentials 2
11- Advanced Math Applications or Algebra 1
12- None

These pathways are examples of the sequencing of math classes, and are intended as a guide in planning course selection. Other pathways are possible. Please consult a guidance counselor or math instructor if you have questions.

Four Year University Preparation

Four Year University, Strong Preparation-Option 1

7- Pre-Algebra
8- Algebra 1
9- Geometry R/H
10- Algebra 2 R/H
11- Pre-Calculus H AB/BC
12- AP Calculus H AB/BC **or** Statistics H

Four Year University, Strong Preparation-Option 2

7- Math 7
8- Pre-Algebra
9- Algebra 1 R/H
10- Geometry R/H **and** Algebra 2 R/H
11- Pre-Calculus H AB/BC
12- AP Calculus H AB/BC **or** AP Statistics

Four Year University, Typical Preparation

7- Math 7
8- Pre-Algebra
9- Algebra 1 R/H
10- Geometry R/H
11- Algebra 2 R/H
12- Pre-Calculus H **or** Technical Math **or** Math 105/110

Four Year University, Minimum Preparation

7- Math 7
8- Pre-Algebra
9- Algebra 1 R/H
10- Geometry R/H
11- Algebra 2 R/H
12- None*

*post-secondary schools recommend 4 years of high school math

Marshfield High School- Academic Career Plan

4 Year Plan

	Freshman	Sophomore	Junior	Senior
English (4 credits)				
Math (3 credits)				
Science (3 credits)				
Social Studies (3.5 credits)				
PE (1.5 credits)				
Elective				
Elective				
Elective				
Elective				
Elective				
Totals:	**Credits**	**Credits**	**Credits**	**Credits**
Summer School				
Summer School				

- Fit for Life (.5 credits) required Freshman grade PE
- Healthy Choices (.5 credits) Freshman or Sophomore
- Computer Applications (.5 credits) Freshman or Sophomore

GRADUATION REQUIREMENT GUIDELINES

The following graduation requirements have been established for Marshfield High School:

English..... 4 credits
Social Science ..... 3.5 credits
Math ..... 3 credits
Science ..... * 3 credits
Physical Education (taken over 3 years) ..... 1.5 credits
Healthy Choices (taken in grades 9-10) 0.5
Consumer & Personal Finance (taken junior or senior year) 0.5
Computer Applications R, H or Comp. Essentials Foundations 0.5
Elective Courses 8.5

Total: 25 credits

Receiving 25 credits is required by school district policy in order to graduate from the high school.

* = A MAXIMUM OF 1 CREDIT of science may be obtained from the following agriculture classes:

The courses listed below earn the science credits listed:

- ES Animal Science - ½ credit
- ES Biotechnology - ½ credit
- ES Plant & Soil Science - ½ credit
- ES Agriscience – 1 credit

You must take BOTH of the courses listed below to earn ½ science credit:

- Dairy Science
- Small Animal Veterinary Science

COURSE AUDIT

Most courses cannot be taken twice for credit; however, a previously taken course can be audited. If a better grade is earned by auditing a course, the new grade will be placed on the transcript and the previous grade will be marked as "AU". If a better grade is not earned the audited class will receive AU as a grade. Earning a better grade will not earn the student additional credit, but it will improve the student's cumulative GPA. A grade of "F" is permanent on a transcript and therefore cannot be changed through an audit.

CREDITS- MINIMUM AND MAXIMUM NUMBERS

All students must carry a minimum of 6.5 credits during the school year. Summer school credits are not considered part of the academic school year load. Students are able to carry a maximum of 9.0 credits during the year. Exceptions to this policy are considered only under unusual circumstances and only with the written consent and approval of the parents, guidance counselor and principal

SCHEDULE/REGISTRATION CHANGES

What is the reason for the major change in scheduling and registering for classes?

It is always our goal to put our students in a position to experience a comfortable challenge yet be successful. It is our belief that students must choose their courses carefully and with the intent of committing to the courses they selected at the time of scheduling/registration.

The ripple effect of mass numbers of students changing their schedules is immense. The Marshfield High School administration uses those course numbers to determine staffing for the upcoming school year. Those numbers must be solid in order to set the best course for our high school. In the past, in the months leading up to the new school year- students changed their schedules often- to the point that for some, the student's original schedule was unrecognizable. The problem was we had based our plans on the student's original selections. All of these changes made certain classes overcrowded and overall staffing shaky at best! This year will be different.

Parents, please assist your child in carefully selecting their courses for the following year. Information is available in the course guide book which is found online. Students, our guidance counselors will be meeting with each class to assist in selection. If you are not sure about a certain class, ask the teacher who is teaching it this year if this would be a good choice for you. Finally, it may help to speak to some of your peers who have had the class. In any case, be sure that the courses you initially select are the courses you want.

REGISTRATION TIMELINE

January

- Parents and students should begin to look at the courses they might select for the 2017-2018 school year
- Week of January 30th Counselors visit MHS & MMS classrooms.
- January 30th, registration opens online at 4 p.m. for everyone!
- January 30th, Parochial school/homeschool presentation 6:00-7:00 in Room 10

February

- February 6th, Tiger Course Hunt 4:00-8:00 p.m. in Fieldhouse; Registration opens at 4 p.m.
- February 10th, Registration closes for current grades 9-11 at 3:00 p.m.
- February 17th, Counselors go to Marshfield Middle School to register current grade 8 students
- February 11th -March 10th, counselors & teachers review course requests.

ADDING/DROPPING A COURSE

Prior to the start of a semester, students may drop any course and add another course in their schedule for one or more of the following reasons:

- For medical reasons
- Due to significant changes to a student's post high school plans
- There is a computer error on the student's schedule
- There are two study halls in one semester and none in another
- The student is in a Co-op, Health Career Connections or Youth Apprenticeship and needs to be free at certain times for his/her job.
- The student IEP requires that modification be made.
- The class needs to be added as it is a graduation requirement. After the semester has begun:
- Students have 5 days to add a course
- Students have 4 weeks to drop with a "W" if they have maintained enough credits (usually 6.5)
- After 4 weeks, the teacher determines whether the student receives a final grade of "F" or "W".

REGISTRATION TIMELINE CONTINUED

DROPPING DOWN FROM: AP TO HONORS; OR HONORS TO A REGULAR SECTION

Students may drop down from an honors section to a regular section of a course only after the first quarter of a new semester. At the end of the first term of the course, students may drop down if they have a grade of "D" or lower in the higher-level class. The student may only drop down to a lower section of the same course. A student may only drop to a lower section after meeting with specified faculty and completing requisite paperwork. The student's grade in the non-honors class will be determined by combining the grades earned in both the higher level and non-honors class. A conference with the guidance counselor and administration is required for this schedule change to be processed.

***PLEASE NOTE that the initial selection of your child's courses for a given school year is the key to avoiding any issues within their schedule. It is critical to choose those classes in a manner that best reflects your students ability and aptitude. It is strongly advised that you adhere to your teacher's course recommendations. The teachers have taken the time to use a variety of sources and data points to recommend the class that will provide students with a comfortable challenge.** Schedule changes have a great effect on class size and the staffing of our school. Any and all schedule changes are contingent upon seat availability. If a class change is an absolute necessity and a seat in the lower class is unavailable– the student may need to drop the class and take a study hall. If it is a class needed for graduation the student may need to take the course during summer school or pursue other less agreeable options.

COURSE CODING

Course	Description	Grading Scale	Notes
Regular – R	Course sections are designed for students who demonstrate fundamental skill and content competency.	4.0 Scale	
Honor – H	Course sections are for those students who seek an enrichment experience in the subject area.	4.25 Scale	
Post-Secondary – PS	Includes AP and TC courses (see descriptions below)	4.5 Scale	
Advanced Placement – AP	Course sections are designed for students who plan to pursue post-secondary education at the university and technical college levels.	4.5 Scale	To earn college credit, students sit for national exams in May. Marks of 3, 4, and 5 on AP exams typically allow students to earn general education credits towards their post-secondary degree.
Transcripted Credit – TC	Course sections are technical college courses taught at the high school in which students can earn both high school and technical college credit	4.5 Scale	
Advanced Standing – AS	Course sections are technical college general education courses taught at the high school.	4.5 Scale	Students must earn a "B" or better and meet skill competencies required by the WI Technical College System for the course to be evaluated by the technical college. Subsequent enrollment in a technical college class is required for credit to appear on a technical college transcript.
Course Options – CO	Course(s) from another educational institution approved under the Course Options Program.	4.5 Scale	Any student enrolled full-time in the District may apply to take a course(s) in another educational institution under the Course Options Program in accordance with state law. A student may attend no more than two (2) courses at any time at another educational institution under this Course Options Program.
Concurrent Enrollment – UW System Course CE	Course sections are university level courses taught at the high school by an adjunct professor of the University of Wisconsin system.	4.5 Scale	Placement in these courses is strictly determined by placement test scores and marks in pre-requisite courses. Students may take the course for high school credit, and for college credit if they pay tuition cost. Tuition cost is half the cost of the credit bearing course.

HIGH SCHOOL COURSE DESCRIPTION

ONLINE

◆AP PSYCHOLOGY PS (317O)..... Credit: 1/2

Prepare for the AP Psychology Exam through the use of discussion boards, drop-boxes and online labs. Students that take the online option will experience the same curriculum and assessments as the regular classroom; however, students will have the convenience of the online classroom and will begin and end their semester in such as to finish the class on the date of the AP Psychology exam. **NOTE**: Candidates for this class must be independent learners, familiar with the online learning environment, conscientious about due dates, and pro-active toward problem solving.

REQUIREMENTS: Reliable computer technology and access to the internet. Ability to take exams in the testing center (7:00 a.m. to 4:00 p.m.) on predetermined dates.

***PREREQUISITES**: Junior standing or Instructor's consent*

****AP COMPUTER SCIENCE A PS (887O)..... Credit: 1**

College-level programming/development course using the Java language. Concepts included are structured Java programming style, assignment and logical operators, decision-making, looping, functions and arrays. Also learn the concepts of data structures, classes, inheritance, recursion and other advanced topics using an object- oriented approach. Students may seek college credit by taking the Advanced Placement Examination in May. AP Computer Science A is recommended in 3 of the 16 Career Clusters.

NOTE: Candidates for this class must be independent learners, familiar with the online learning environment, conscientious about due dates, and pro-active toward problem solving.

REQUIREMENT: This is a college level course requiring reliable at-home computer technology and internet access.

***PREREQUISITES**: Intermediate Programming (849) and Sophomore standing.*

◆AP WORLD HISTORY PS (338O)..... Credit: 1

Raise the academic bar with the challenges of a rigorous and fast paced survey of world history. This class is an excellent counterpart to AP European History and will help students achieve a broad perspective of western and non- western cultures.

NOTE: In spring, you can take the AP World History test and earn up to six college credits.

REQUIREMENTS: Considerable use of research skills, critical thinking skills, analytical writing, public speaking skills, and integrating technology. This is a college level course.

***PREREQUISITES**: Sophomore standing*.

AP HUMAN GEOGRAPHY/GLOBALIZATION PS (858O)..... Credit: 1

This year-long course provides students with an opportunity to expand their knowledge of our world from a broad, geographical perspective. Students will realize and appreciate the complexities of globalization and think critically about what they see, read, and hear about their world through critical analysis of culture, society, and space. Students are challenged to think geographically across scale and across a wide range of geographical phenomena and global issues. Units of study include population, migration, culture, language, religion, ethnicity, political geography, economic development, industry, agriculture, and urban geography.

NOTE: Candidates for this class must be independent learners, familiar with the online learning environment, conscientious about due dates, and pro-active toward problem solving. Learning targets and content requirements are the same as traditional face-to-face class, but due to the 24/7 online model a driven AP student may be able to complete course requirements in less academic calendar time.

REQUIREMENTS: This college-level course requires considerable reading, writing, critical thinking and application of concepts and theories, integrating technology on a daily basis.

***PREREQUISITE**: Senior standing*

◆This course may be offered in an online\hybrid course format depending on student enrollments. Hybrid would feature a combination of online and traditional face-to-face instruction.
****This course may be offered in an online course format depending on student enrollments.**

AGRICULTURE

ES AGRISCIENCE (970)..... Credit: 1

"Learning by doing" activities provide exposure to various areas of agriscience. These include: careers, soils, plant science, horticulture, integrated pest management, animal nutrition, animal physiology, genetics, reproduction, forestry, wildlife management, natural resources and food science. The greenhouse, hydroponics lab, cheese making lab and computer lab will be used as laboratories for various activities dealing with soils, plants, animals, food, and horticulture.

***PREREQUISITE**: None*

ES ANIMAL SCIENCE (972)..... Credit: 1/2

Learn the anatomical features and functions of animals. Students will study careers with animals, feeding and nutrition, genetics, animal health, reproduction and animal rights/welfare. Have the opportunity to dissect a fetal pig in order to understand mammalian internal anatomy, and also perform animal biotechnology experiments.

***PREREQUISITE**: Sophomore standing.*

ANIMAL MANAGEMENT (974)..... Credit: 1/2

Explore the food animal industry. Examine beef, sheep, swine, and poultry, their breeds, selection and judging, feeding and management, diseases and parasites, housing and equipment and marketing.

***PREREQUISITE**: Sophomore standing*

ES BIOTECHNOLOGY (975)..... Credit: 1/2

Explore the ever-changing world of agricultural biotechnology. Hands-on classroom investigations will include gene splicing, DNA extraction, DNA fingerprinting, forensics, tissue culturing, and PCR testing. Use the electrophoresis lab and greenhouse as tools to study DNA. Participate in a field trip to UW-Madison Biotechnology Center and other labs to tour cutting-edge facilities and use them to complete lab activities.

NOTE: This is a NCAA approved course. ***PREREQUISITE**: Sophomore standing.*

MID-STATE TECHNICAL COLLEGE **ES AS PLANT & SOIL SCIENCE (976)..... Credit: 1/2**

An in-depth look at soil origin and development, physical properties, and soil conservation. Use the greenhouse to grow Poinsettias for the holidays. By taking cuttings of houseplants and growing vegetables with state-of-the-art hydroponics equipment, explore plant structure, growth, physiology, reproduction, and management. Participate in the county soils evaluation contest.

***PREREQUISTE**: Sophomore standing.*

***SMALL ANIMAL VETERINARY SCIENCE (980)..... Credit: 1/2**

Discover the opportunities in the animal industry that range from owning a pet shop to working as a zoo keeper, from breeding cats to working with exotic animals. Small Animal Veterinary Science includes: dogs, cats, horses and other companion animals. Breeds, anatomy, proper health care, nutrition, breeding, showing, careers and animal rights/welfare will be discussed.

***PREREQUISITE**: Sophomore standing*

***DAIRY SCIENCE (982)..... Credit: 1/2**

Gain knowledge about careers, breeds, record- keeping, reproduction, milk secretion, feeding, housing, diseases, judging, selection and marketing of dairy animals and products. Participate in a field trip to area dairy farms to learn how modern dairies operate, and to test your judging skills. ***PREREQUISITE**: Sophomore standing.*

You can complete one credit of your two science requirements by successfully completing Agriculture courses with an asterisk (*) or ES (Equivalency Science) in their title.

The courses listed below earn the science credits listed:

- ES Animal Science - ½ credit
- ES Biotechnology - ½ credit
- ES Plant & Soil Science - ½ credit
- ES Agriscience – 1 credit

***You must take BOTH of the courses listed below to earn ½ science credit:**

- Dairy Science
- Small Animal Veterinary Science
- ES Agriscience – 1 credit

ALL FFA MEMBERS MUST BE ENROLLED IN A COURSE OFFERED THROUGH THE AGRICULTURAL EDUCATION DEPARTMENT

AGRICULTURE

TC FORESTRY PS (984)..... Credit: 1/2

Examine the principles behind good forest and woodlot management. Review occupations, lumberjack history, forest products, tree structure and growth, tree identification, tree measurement, silviculture, and chain saw use and safety. Participate in a field trip to the school forest.

NOTE: Students that successfully complete both Forestry (980) and Wildlife Management (986) can earn Transcripted Credit from Mid-State Technical College for Introduction to Fisheries, Forestry, and Wildlife Resources #10001199, 3 credits.

***PREREQUISITE**: Sophomore standing.*

TC WILDLIFE MANAGEMENT PS (986)..... Credit: 1/2

Investigate wildlife ecology, habitat management, wildlife regulations and methods of managing wildlife, including hunting, fishing and trapping. Tour area wildlife facilities and complete a fish taxidermy project.

NOTE: Students that successfully complete both Forestry (980) and Wildlife Management (986) can earn Transcripted Credit from Mid-State Technical College for Introduction to Fisheries, Forestry, and Wildlife Resources #10001199, 3 credits.

COURSE FEE: Extra taxidermy project, above & beyond the standard curriculum student will be charged "actual" cost of all supplies. ***PREREQUISITE**: Sophomore standing.*

TC HORTICULTURE PS (988)..... Credit: 1/2

Use the greenhouse extensively for the production of bedding plants. Explore horticultural career opportunities, study basic plant growth and soils, learn about holiday arrangements and make one of your own. Practice pruning techniques and develop a landscape plan. Experiment and learn about plant growth with our hydroponics equipment.

NOTE: Students that successfully complete this course can earn Transcripted Credit from Mid-State Technical College for TC Horticulture #10001111, 3 credits.

***PREREQUISITE**: Sophomore standing*.

AGRIBUSINESS MANAGEMENT (989)..... Credit: 1/2

Gain personal management and leadership skills essential for a future in the world of business. Learn about the types of businesses and the advantages and disadvantages of each. Study methods for determining profitability, net worth, and inventory values. Explore the many aspects of entrepreneurship, employability skills, and marketing agricultural products and services. Lab activities will include utilizing agribusiness accounting software, inventories, taxes, commodity marketing, and management simulations. ***PREREQUISITE**: Sophomore standing*.

AGRIBUSINESS CO-OP (990)..... Credit: 2

This senior level course consists of classroom instruction and on-the-job training. Classroom instruction will include employability skills and job specific skills. Job placements will be in various areas of agribusiness including: animal science, plant and soil science, horticulture, forestry, natural resources, bio-technology and production agriculture. One credit will be granted for the classroom portion of the course and one credit for successful completion of the on-the-job training.

NOTE: The on-the-job training credit will not be awarded if the classroom portion of the course is not completed with a passing grade.

***PREREQUISITES**: Senior standing and Co-op Application.*

AGRICULTURE YOUTH APPRENTICESHIP..... Credit: 2

For more information see page 19. Juniors should sign up for course # 991 Seniors should sign up for course # 992

***PREREQUISITES**: Junior standing, application form and instructor's consent.*

ES = Satisfactory completion of one credit of the four courses classified as ES (Equivalency Science) will satisfy a credit requirement in science

**** = Satisfactory completion BOTH courses preceded by an asterisk will satisfy a one-half (½) credit requirement in science***

ALL FFA MEMBERS MUST BE ENROLLED IN A COURSE OFFERED THROUGH THE AGRICULTURAL EDUCATION DEPARTMENT

ART

BEGINNING 2-DIMENSIONAL ART R (703)..... Credit: 1/2

Using a general focus, students will explore the realm of 2-Dimensional Arts. Students will be introduced to an immense variation of media while learning techniques and skills relevant to studio practices. Mediums used will be chosen from watercolor, prismacolor, pen and ink, charcoal, pastel, acrylic and printmaking. While investigating their own ideas through the elements and principles of art and design students will explore the vast history of art through specific artists and their work. Specific focus will be paid to spatial reasoning, line, color and communication. Students will understand the importance of the visual arts in constructing our shared human experience.

COURSE FEE: $10. ***PREREQUISITE****: None*

BEGINNING 3-DIMENSIONAL ART R (704)..... Credit: 1/2

Concentrating on the history of art, students will explore the realm of 3-Dimensional Arts. Students will be introduced to an immense variation of media while learning techniques skills relevant to studio practices. Mediums include plaster, wax, clay, concrete, wire, metal, fibers, stone and cardboard. While investigating their own ideas through the elements and principles of art and design, students will explore the ideas of specific artists and their work. This class serves as a foundation for Sculpture, Ceramics, Jewelry, and Design classes. Students will understand the importance of the visual arts in constructing our shared human experience.

COURSE FEE: $15. ***PREREQUISITE****: None.*

APPLIED ART AND DESIGN R (701)..... Credit: 1/2

Students will be introduced to the rigor and highly applicable world of design. Investigations will include typeface, composition, color, application to packaging. In this course students will learn gestalt (theory of unity) principles and apply them to traditional artistic media. This class is for those who may be interested in careers such as Interior, Graphic, Multimedia/Web, or Industrial Design. Photoshop and Illustrator will be used along with presentation mediums. This class will conclude with limited investigations of architectural and 3-D modeling in digital forms.

COURSE FEE: $10. ***PREREQUISITE****: Sophomore standing or MMS SAIL Art.*

ADVANCED APPLIED ART AND DESIGN Honors (705)..... Credit: 1/2

Students will delve deeper into the highly applicable world of design. Investigations will include advanced design challenges, creating solutions and developing sophisticated design. In this course students will learn how to clearly identify problems and work towards their solution. This class is for those who may be interested in careers such as Interior, Graphic, Multimedia/Web, or Industrial Design. Various digital rendering programs will be used including a 3-Dimensional modeling program, architectural rendering programs and Adobe Creative Suite. This class will challenge students to identify problems in Design and create solutions that will culminate in a professional presentation.

COURSE FEE: $10. ***PREREQUISITE****: Applied Art and Design (701)*

STUDIO APPLIED ART AND DESIGN Honors (706)..... Credit: 1/2

Students will explore world of design while applying previous knowledge and skills to pursue their own design ideas. An ability to have personal initiative to pursue a large design project is a must. Investigations will include advanced design programs; this may include and is not limited to 3-D printing/prototyping, designing architectural works, character design for animation and exploration into various digital design programs. Concurrently, while pursuing their personal projects they will choose from an advanced design problem provided by the instructor.

COURSE FEE: $10 ***PREREQUISITE****: Advanced Applied Art and Design (705)*

ART PHOTOGRAPHY R (745)..... Credit: 1/2

Students in Art Photography will explore in depth the fundamental principles, techniques, and application of camera based image making. A visually oriented history of the photograph will be emphasized in both its commercial and its creative aspects. We will study how photography has impacted the world, and how artists have used photography as a tool for journalism, documentation, social change, mass media, and artistic expression. Students will use analog and digital processes to create photographs as works of art. Students will be required to create a portfolio of work including photographs that use elements and principles of design in sophisticated ways.

COURSE FEE: $20. ***PREREQUISITE****: Sophomore standing or MMS SAIL Art.*

ART

ADVANCED ART PHOTOGRAPHY Honors (746)..... Credit: 1/2

Students will continue to develop technical skill with digital SLR cameras and computer software to manipulate and refine images. The curriculum for this course includes the inventive use of light and photographic equipment to create art telling complex stories. With an emphasis on production, this course is designed to develop higher-level thinking, art-related technology skills, art criticism, art history, and aesthetics. Students will express themselves through the themes of studio work, self-portrait, time exposure, and conceptual, narrative, documentary and photojournalism photography. Students will analyze and critique photographs, discuss aesthetic issues, and relate historical styles in photography to their own work and that of other photographers**.**

COURSE FEE: $20 ***PREREQUISITE****: Student must have earned a "B" or better in Art Photography (745).*

STUDIO PHOTOGRAPHY: STILL & VIDEO ART Honors (747)..... Credit: 1/2

Students will continue to develop technical skill with digital SLR cameras and computer software to manipulate and refine images. The curriculum for this course includes the inventive use of light and photographic equipment to create complex stories. With an emphasis on production, this course is designed to develop higher-level thinking, art-related technology skills, art criticism, art history, video production, and aesthetics. Students will develop advanced lighting techniques, layered image production, visual narratives, story boards, scripts, transitions, video projections, live video capture, and work with sound. Students will analyze and critique still and moving imagery, discuss aesthetic issues, and relate historical styles of sequential imagery in their own work and that of other photographers/filmmakers**.**

COURSE FEE: $20 ***PREREQUISITE****: Student must have earned a "B" or better in Advanced Art Photography Honors (746).*

DRAWING (707)..... Credit: 1/2

Refine basic drawing skills, working with perspective, realism and portraiture while using a variety of tools: pen and ink, graphite, and pastels.

COURSE FEE: $10. ***PREREQUISITE****: Sophomore standing or MMS SAIL Art.*

ADVANCED DRAWING Honors (716)..... Credit: 1/2

Advance your drawing techniques through in- depth study of light and shadow techniques, graphite and pastels.

REQUIREMENTS: Participation and attendance in this class are very important since this is a performance based class.

COURSE FEE: $10. ***PREREQUISITES****: Drawing (707) with a final grade of at least a "B", or instructor's consent.*

STUDIO DRAWING Honors (734)..... Credit: 1/2

Focus your art talents with a third semester of drawing.

REQUIREMENTS: Participation and attendance in this class are very important since this is a performance based class. Must be an independent worker.

COURSE FEE: $10 ***PREREQUISITES****: Junior standing. Presentation of a written proposal indicating the area to be studied to the teacher. Must have taken two art classes in the proposed area earning an "A" average and must submit a portfolio of art work containing at least eight completed pieces which will be evaluated by the art department.*

PAINTING (712)..... Credit: 1/2

The Painting course explores stylistic differences in paintings. Students will explore the use of acrylic paint for 9 weeks and watercolor as a painting media for the remaining 9 weeks. Students will understand and synthesize different brush and texture techniques to create a finished painting for both mediums. Students will create realistic and abstract works of art using acrylic and/or watercolor paints. This class is ideal for students interested in careers such as Art Educators, Graphic Artists, Fashion Design and many other careers related to art.

COURSE FEE: $20 **PREREQUISITE***: Sophomore standing or MMS SAIL Art*

ADVANCED PAINTING Honors (718)..... Credit: 1/2

The Advanced Painting (Honors) course involves an in-depth exploration of stylistic differences of paintings. We will continue exploring the use of acrylic and watercolor paints as a medium with more emphasis on abstract, contemporary and realism. Students will be able to choose their own brush stroke styles to complete their finished works of art. Students will assess and critique their own work. Students will be able to have more control in dictating project parameters.

COURSE FEE: $20 ***PREREQUISITE****: Painting (712) with a final grade of at least a "B", instructor's consent*

ART

STUDIO PAINTING Honors (719)..... Credit: 1/2

The Studio Painting course involves an in-depth exploration of basic, advanced and collegiate level investigations. Students will investigate more collegiate painting techniques using brush strokes they have learned in beginning and advanced classes. Portraitures, still life and contemporary abstract projects chosen from students will be explored. A study of master artists will be performed through acrylic and/or watercolor paint. A one page critique and refection of student's work will be required. Students will assess and critique their own work. Students will have the opportunity to have more control in dictating project parameters.
COURSE FEE: $20 ***PREREQUISITE****: Advanced Painting Honors (718) with a final grade of at least a "B", instructor's consent.*

SCULPTURE (714)..... Credit: 1/2

Students will be introduced to the history of 3- Dimensional Art. Investigations will include traditional methods of sculpting as well as contemporary new media. Students will get a chance to use additive and reductive methods to sculpt. Projects range from creating your own self-portrait bust, carving in plaster, casting your own hands, and creating work from experimental media.
COURSE FEE: $15. ***PREREQUISITE****: Sophomore standing or MMS SAIL Art.*

ADVANCED SCULPTURE Honors (715)..... Credit: 1/2

This course is designed for the student that is sincere about pursuing an art career or understanding art a significant level. Students will use ideas as the inspiration and guide in creating modern to contemporary works of sculpture. Projects range from creating your own video and projections, installations, human scale sized work and creating work from experimental/contemporary media.
COURSE FEE: $15 ***PREREQUISITE****: Sculpture (714).*

CERAMICS (720)..... Credit: 1/2

Students will learn basic hand building, throwing, trimming, and finishing techniques associated with Ceramics. Students will create and learn about large vessels which will serve as a long-term project. Additionally, we will construct working whistles while learning about how to abstract objects to create more sophisticated works of art. Finally, students will learn and practice throwing techniques with and without teacher assistance. This class prepares students for Advanced Ceramics.

COURSE FEE: $15. ***PREREQUISITE****: Sophomore standing or MMS SAIL Art*

ADVANCED CERAMICS Honors (725)..... Credit: 1/2

Students will learn advanced hand building, throwing, trimming, and finishing techniques associated with Ceramics. Students will create and learn about decorative teapots which will serve as a long-term project. Additionally, we will develop our throwing skills through consistent and rigorous work on the pottery wheel. Students will be expected to create works of considerable quality. Additionally, students in honors must outline, review and share knowledge from Foundations of Ceramics. Finally, students will learn and practice throwing techniques with and without teacher assistance. This class prepares students for Studio Ceramics. A grade of B or above must be achieved to move on to Studio Ceramics.

COURSE FEE: $15 ***PREREQUISITES****: Ceramics (720) with a final grade of at least a "B" or instructor's consent.*

STUDIO CERAMICS Honors (724)..... Credit: 1/2

Students will learn studio and collegiate level hand building, throwing, trimming, and finishing techniques associated with Ceramics. As a class, we will investigate and learn the subtle language of Ceramics. Aesthetics of good form and intention will be addressed. Students will be introduced to varying techniques from Mexican, Chinese, Japanese, German, English and other world traditions. Artifacts from master level potters will be explored as we develop our skills. Students' personal interest will serve as the focus of techniques learned. This class will culminate in a show of the students' finest work.

COURSE FEE: $15 ***PREREQUISITES****: Advanced Ceramics*

JEWELRY & METAL ARTS (726)..... Credit: 1/2

Students will explore and create a variety of handmade wearable art jewelry from copper, brass, nickel and sterling silver. Through investigation of multiple techniques and the study of cultural uses of jewelry, students will learn soldering, torch work, metal sawing & piercing, cabochon stone-setting, patina applications, oxidation, and color treatments on metal. Students will use fabrication techniques to create wearable pieces of art, including necklaces, rings, and earrings.

COURSE FEE: $15 plus an additional cost for metal used. ***PREREQUISITE****: Sophomore standing or MMS SAIL Art*

ART

ADVANCED JEWELRY AND METAL ARTS Honors (730)..... Credit: 1/2

Students will continue to refine and expand more advanced jewelry making techniques, building off of existing knowledge gained from beginning Jewelry & Metals Arts. Through deeper investigation of multiple techniques, students will continue to solder, saw metals, set cabochon and faceted stones, and create more sophisticated designs using alternative methods. The focus of this advanced course is on exploring new techniques and investigating trends in jewelry & metal arts. Students may choose to wearable and non-wearable works of art in metal and alternative materials.

COURSE FEE: $15 ***PREREQUISITES****: Jewelry (726) with a final grade of at least a "B", instructor's consent.*

STUDIO JEWELRY AND METAL ARTS Honors (733)..... Credit: 1/2

Students will continue to refine and expand their knowledge of jewelry forms by building off of existing knowledge gained from Advanced Jewelry in a third course of jewelry. By thoughtful investigation, students in Studio Jewelry will create a cohesive body of work focusing on a theme or idea. Students will create a portfolio of work that represents their knowledge of the medium.

COURSE FEE: $15 plus additional cost for metal used. ***PREREQUISITE****: Advanced Jewelry & Metal Arts H (730) with a final grade of at least a "B", instructor's consent.*

AP ART HISTORY PS (731)..... Credit: 1

AP Art History is a yearlong course that explores art from the origins of mankind to the contemporary art world. Achieve a wider and more in depth understanding of the world through cultural investigation. Students will be expected to perform at a collegiate level while we explore, analyze and identify specific works of art and the cultures that created them. This class prepares you for the AP Art History College Exam in the spring and an ever-increasing global economy and culture. One field trip will be taken in the spring to validate and utilize your new Art History knowledge.

REQUIREMENTS: Students will be writing art essays, completing chapter take-home quizzes, discussing art works in class, complete one visual research project, one field trip, and taking several tests.

COURSE FEE: Dependent on Field Trip Cost ($30-$40) ***PREREQUISITES****: Sophomore standing. Commitment to academic work, strong writing and communication skills are essential, along with academic success in social studies, literature or advanced art courses*.

AP ART: 2-DIMENSIONAL (742 & 742A), 3- DIMENSIONAL (743 & 743A) OR DRAWING (744 & 744A) PS..... Credit: 1

Students develop a portfolio of 3-D, 2-D or Drawing works while keeping in mind the three major concerns that reflect first year college level standards which are: a sense of quality, the student's concentration on a particular visual interest and the students need for breadth of experience in the formal, technical and expressive means of art. These portfolios include 20-24 pieces of your best work. The choices of technique, medium, style, form, subject and content are made by the student in consultation with the teacher.

REQUIREMENTS: Must be an independent thinker and have the ability to work independently. Extensive out of class time commitment is required.

COURSE FEE: $10 for Drawing 2-D and $15 for 3-D. ***PREREQUISITES****: Sophomore standing. Must have beginning and advanced courses completed with a grade of no lower than an "A" in either: drawing, painting, jewelry or ceramics. Two or more semesters are needed for this course.* ***Students must speak to their art teacher if interested in developing a portfolio of work***.

INNOVATIVE FABRICATION (938)..... Credit: 1/2

Art and Tech students will be challenged to find creative solutions to assigned projects. Art and metalworking will be combined to create work that requires technical expertise with inventiveness. Students will create functional and aesthetic objects using techniques ranging from found object assemblage to CNC design. If you are creative and interested in using ferrous metal or if you have interest in metal tech you are invited to this cross curricular experience. This class is open to students in grades 10-12 with NO prerequisites. Lab fee: $20

NOTE: This is a 2017-18 Innovative Program Course **NOTE**: Students will choose whether this class will count as an art course or a technology education course on their transcripts after the course has begun.

PREREQUISITE*: Sophomore Standing*

BUSINESS INFORMATION & TECHNOLOGY

TC THE BUSINESS CORE PS (851)..... Credit: 1/2

If you are considering business as a career option, this class is for you. Learn about the ever-changing and spirited business world in this course. Explore the many fascinating elements of business including the skills and qualities of successful entrepreneurs, competition, business types, marketing, human resources, finance, basic economic, accounting, management and leadership. After one semester, you will have a better idea of what goes on behind the scenes of many business decisions and have a better idea of what you may want to pursue for a future business career.

NOTE: In addition, transcripted credit will be granted from MSTC for Introduction to Business #10102101 3 credits upon successful completion of this course.

***PREREQUISITE**: Junior standing.*

COMPUTER APPLICATIONS FOUNDATIONS (831)..... Credit: 1/2

After completing this required course, students will be able to create professional documents and presentations quickly and easily. The concepts and skills learned in this class will be continuously used in other courses throughout high school. NOTE: Accommodations are made for students with special needs. This course can be taken instead of Computer Applications R or H with the consent of instructor or counselor.

NOTE: Accommodations for special needs students are made.

***PREREQUISITE**: None*.

COMPUTER APPLICATIONS (830)..... Credit: 1/2

Simply being able to use technology is no longer enough. Today's students need to be able to use technology to analyze, learn and explore. Digital age skills are vital for preparing students to work, live and contribute to the social and civic fabric of their communities. Students need to learn effectively and live productively in an increasingly global and digital world. Become well-prepared for college and career by learning and mastering the MS Office suite focusing on Word, Excel, and professional presentations.

***PREREQUISITE**: None.*

COMPUTER APPLICATIONS Honors (811)..... Credit: 1/2

Simply being able to use technology is no longer enough. Today's students need to be able to use technology to analyze, learn and explore. Students need to learn effectively and live productively in an increasingly global and digital world. Become well-prepared for college and career by learning and mastering the MS Office suite focusing on Excel, Access and professional presentations. Infused throughout the course are web 2.0 tools designed to expand your knowledge of current technological trends and devices. **NOTE**: Juniors and Seniors are recommended to enroll in this level to meet the graduation requirement.

REQUIREMENT: Multiple technological projects and activities beyond scheduled class time are required.

***PREREQUISITE**: None.*

WEB DESIGN (808)..... Credit: 1/2

Master the latest in web design and management technology used by professionals to create and manage impressive and effective web sites. Learn to design and develop "like the professionals" by applying these technology skills in partnership with efficient information organization, practical design techniques and web enhancement components that generate impact. The course begins with a brief overview of web creation using Hypertext Markup Language (HTML), then moves into creating, developing and managing a website using the dominant HTML editor on the market – Dreamweaver CS5. Students will learn to use Adobe Photoshop tools and techniques to produce engaging graphics to incorporate into their web page design.

***PREREQUISITE**: None.*

ADVANCED WEB DESIGN Honors (809)..... Credit: 1/2

In advanced web design your primary focus is designing comprehensive web sites for professional businesses and organizations. This project-based experience will provide you with several opportunities to experience working on a number of real world creative project teams, networking with clients, developing an online presence for the world to see! You'll build on your existing web development skills and gain additional experiences not limited to domain selection, host registration, SEO (search engine optimization), CSS (cascading style sheets), and social media integration strategy.

***PREREQUISITE**: Web Design (808) o r instructor's consent.*

BUSINESS INFORMATION & TECHNOLOGY

ACCOUNTING PRINCIPLES (838)..... Credit: 1/2

Accounting is an essential course for those students interested in studying business at the college or university level. Many college majors ranging from health care to business majors require accounting courses. Student will study the financial accounting and payroll cycles for a sole proprietorship business. Career opportunities will be explored to see what the future holds for the accounting profession. Accounting is a recommended course in 8 of the 16 Career Clusters. As most assignments are completed online, reliable internet access is required to complete homework. ***PREREQUISITE**: None.*

◆TC COLLEGE ACCOUNTING I PS (845)..... Credit:1/2

Accounting is the key to opening the door to the business world and is a required course for all business majors in college. Take this opportunity to earn college credits in accounting while still in high school. Emphasis is given to the analysis and interpretation of financial activity, preparing and interpreting financial statements, and applying accounting theory in decision making. Accounting careers and becoming a CPA will also be discussed. This is an important college preparatory course for students planning to major in any area of business. Reliable internet access is required to complete homework.

NOTE: In addition, transcripted credit will be granted from MSTC for Accounting I & II #10101111 3 credits upon successful completion of BOTH semesters of this course. There is no cost to the student for these credits.

***PREREQUISITE**: Junior standing*.

◆TC COLLEGE ACCOUNTING II PS (846)..... Credit:1/2

According to the Bureau of Labor Statistics, careers in accounting are expected to grow faster than average through 2016. The Bureau estimates over 200,000 accounting jobs will arise in the next decade. College Accounting is a course which gives the student a foundation in accounting theory and practice. Students will gain knowledge relating to service and merchandising businesses using sole proprietor, partnerships and corporate accounting principles. Topics covered mirror the topics covered in the first semester collegiate courses.

NOTE: In addition, transcripted credit will be granted from MSTC for Accounting I & II #10101111 3 credits upon successful completion of BOTH semesters of this course. There is no cost to the student for these credits.

***PREREQUISITE**: Junior standing & TC College Accounting I (845).*

INTRO COMPUTER PROGRAMMING Honors (847)..... Credit: 1/2

Looking for a competitive advantage in college or tech school and your chosen career path? Learn how to program instead of being programmed. Using hands-on learning experiences, you'll explore the fundamentals of computer programming using a variety of programming languages. A rewarding, sometimes challenging, collaborative and creative learning experience, this course is designed for students with no prior programming experience but wish to explore one of the most popular STEM/STEAM fields in terms of jobs outlook and salary in our world today.

REQUIREMENTS: This is an honors course and requires strong reading and math skills**.**

***PREREQUISITE**: None.*

INTRO COMPUTER PROGRAMMING (848)..... Credit: 1/2

Looking for a competitive advantage in college or tech school and your chosen career path? Learn how to program instead of being programmed. Using hands-on learning experiences, you'll explore the fundamentals of computer programming using a variety of programming languages. A rewarding, sometimes challenging, collaborative and creative learning experience, this course is designed for students with little or no prior programming experience but wish to explore one of the most popular STEM/STEAM fields in terms of jobs outlook and salary in our world today. ***Students who take this class play an integral role in selecting the music and developing animation sequences for a significant portion of the Rotary Winter Wonderland light display each year.***
***PREREQUISITE**: None.*

INTERMEDIATE PROGRAMMING Honors (849)..... Credit: 1/2

Continue to develop and apply Intro Programming skills using the Java language, which is rapidly becoming the programming standard for Computer Science majors and application development communities. Students reinforce existing programming skills and learn Java's object-oriented approach. Hands-on STEM/STEAM skill development utilizing Java program design and implementation. You will also explore several development environments including but not limited to robotics, GIS/drone, animation, game & app development, misc. language exploration.

***PREREQUISITE**: Intro Computer Programming (847 or 848*).

BUSINESS INFORMATION & TECHNOLOGY

NEW INNOVATION PROJECT COURSE OFFERING FOR 2017-2018

AP COMPUTER SCIENCE A PS (887)..... Credit: 1

Learn college-level programming using Java programming language. Concepts included are structured Java programming style, assignment and logical operators, decision-making, looping, functions and arrays. Also learn the concepts of data structures, classes, inheritance, recursion and other advanced topics using an object- oriented approach. Students may seek college credit by taking the Advanced Placement Examination in May.

REQUIREMENT: This is a college level course requiring an additional out-of-class time commitment.

***PREREQUISITES**: Intermediate Programming (849), sophomore standing.*

AP COMPUTER SCIENCE PRINCIPLES PS (888)..... Credit: 1

AP Computer Science Principles is an elective course that prepares students for the Advanced Placement Computer Science Principles exam administered by the College Board in May. The course is designed to be equivalent to a first-semester introductory college computing course for non-computer science majors. This course is unrelated to the AP Computer Science A course offered, and does not require any previous computer science courses as a prerequisite.

AP Computer Science Principles offers a multidisciplinary approach to learning the underlying principles of computation. The course will introduce students to the "big ideas" of computer science: creativity, programming, abstraction, algorithms, large data sets, the Internet, cybersecurity concerns, and the global impact of computing. The course will give students the opportunity to use technology to address real-world problems and build relevant solutions, while inviting students to understand how computing changes the world. Rather than focusing on a particular programming language or tool, the course focuses on using technology and programming as a means to solve computational problems and create exciting and personally relevant artifacts. The course is unique in its focus on encouraging students to think creatively when developing computational artifacts and using simulations to explore questions that interest them, using an iterative process similar to what artists, writers, computer scientists, and engineers use to bring ideas to life.

The STEM/STEAM curriculum also emphasizes communication and collaboration in a project-based approach and classroom environment. Students will maintain a portfolio of their work, which will include several performance tasks in the areas of programming and the impact of computing technology.

***PREREQUISITE**: Algebra I, sophomore standing, or freshman with instructor's consent*.

AP HUMAN GEOGRAPHY/GLOBALIZATION PS (858)..... Credit: 1

This year-long course provides students with an opportunity to expand their knowledge of our world from a broad, geographical perspective. Students will realize and appreciate the complexities of globalization and think critically about what they see, read, and hear about their world through critical analysis of culture, society, and space. Students are challenged to think geographically across scale and across a wide range of geographical phenomena and global issues. Units of study include population, migration, culture, language, religion, ethnicity, political geography, economic development, industry, agriculture, and urban geography.

NOTE: Candidates for this class must be independent learners, familiar with the online learning environment, conscientious about due dates, and pro-active toward problem solving. Learning targets and content requirements are the same as traditional face-to-face class, but due to the 24/7 online model a driven AP student may be able to complete course requirements in less academic calendar time.

REQUIREMENTS: This college-level course requires considerable reading, writing, critical thinking and application of concepts and theories, integrating technology on a daily basis.

***PREREQUISITE:** None.*

SPORTS AND EVENT MARKETING (880)..... Credit: 1/2

Sports are a billion-dollar industry in today's economy. Students will learn to apply marketing principals to the world of multi-million dollar athletes and entertainers, as well as local sports programs. Strategies to create effective promotions, build sponsorships, and create fan enthusiasm will be developed as students manage a sports franchise.

***PREREQUISITE**: Sophomore standing.*

BUSINESS INFORMATION & TECHNOLOGY

BUSINESS & MARKETING INTERNSHIP (881)..... Credits: 1½

Business & Marketing Internship provides paid, on-the-job training in a local business as well as learning about business and marketing in the classroom. Students attend classes and also "earn while they learn" at one of the cooperating businesses in the afternoon. The employer offers the students an opportunity to further develop his/her skills in a real-world environment. The classroom requirement is for one semester (½ credit) and the work experience requirement (1 credit) is for an entire year.

NOTE: The work-based training credit will not be awarded if the classroom portion of the course is not completed with a passing grade.

***PREREQUISITE**: Senior standing.*

BUSINESS INFORMATION AND TECHNOLOGY YOUTH APPRENTICESHIP..... Credit: 1

For more information see page 19. Juniors should sign up for course # 885 Seniors should sign up for course # 890

***PREREQUISITES:** Junior standing, application form and instructor's consent.*

ENGLISH

Freshman: English I R, H or English I Essentials (1 credit required)
Semester Electives

1. Speech I
2. Drama
3. Creative Writing

Sophomore: English II R, H or English II Essentials or Advanced Placement English Language/US History (1 credit required)
Semester Electives

1. Speech I
2. Drama
3. Creative Writing

Junior: English III R, H, or English III Essentials, AS Oral Tradition or Advanced Placement English: Language & Composition Honors or Advanced Placement English Language/US History (1 credit required)
Semester Electives

1. Speech I
2. Drama
3. Creative Writing

Senior: (1 credit required)
Students must choose one of the following year long courses or two of the semester courses:
Year-long Courses

1. Advanced Placement English: Literature and Composition PS
2. Advanced Placement English: Language and Composition PS
3. English IV Contemporary Media & Literature
4. AS Written Communication - Regular PS
5. AS Oral and Interpersonal Communication
6. English IV Essentials

Semester Electives

1. Speech I
2. Drama
3. Creative Writing
4. English 101 Composition H
5. TC CE English 102 Composition PS

ENGLISH I ESSENTIALS R & US HISTORY &
AMERICAN GOVERNMENT FOUNDATIONS R (400)……..... Credit: 2

Meeting deadlines and demonstrating personal responsibility are critical expectations, as students develop life-long qualities in becoming successful students.

Students will study short stories, the novel, nonfiction, and poetry, utilizing note-taking strategies to develop skills to track literary elements used across all units of study, for vocabulary enrichment, and to infer the main idea, author's purpose, and audience.

Using the writing process, students will produce creative and expository writing. Additionally, students will conduct independent formal and informal research to produce unit projects which will be presented orally, demonstrating sound public speaking skills.

Students in this course will be mindful of their ultimate goal of building reading skills and improving reading levels to eventually leave the essentials track.

Explore the foundations of US government through close reading and guided writings. This course is taught in conjunction with English I Essentials and focuses on increasing core area skills of reading, writing and thinking in students who struggle academically. Placement in this course is made using multiple measures of student achievement. The goal of this combined course is to move students diagonally to the regular level English and Social Studies courses.

***PREREQUISITE**: Teacher/guidance recommendation*.

ENGLISH

ENGLISH I (401)..... Credit: 1

Meeting deadlines and demonstrating personal responsibility are critical expectations, as students develop life-long qualities in becoming successful students.

Students will study short stories, the novel, nonfiction, and poetry, utilizing note-taking strategies to develop skills to track literary elements used across all units of study, for vocabulary enrichment, and to infer the main idea, author's purpose, and audience.

Using the writing process, students will produce creative and expository writing. Additionally, students will conduct independent formal and informal research to produce unit projects which will be presented orally, demonstrating sound public speaking skills.

NOTE: This is a NCAA approved course. ***PREREQUISITE****: None.*

ENGLISH I Honors (402)..... Credit: 1

Students taking this class are to be highly motivated and have strong English skills which will be further developed at an accelerated pace. Meeting deadlines and demonstrating personal responsibility while independently reading assigned literature and composing assigned written responses are critical expectations, as students develop life-long qualities in becoming successful students.

Students will study various genres of literature while utilizing note-taking strategies to track literary elements used across all units of study for vocabulary enrichment, and to identify the main idea, key supporting details, and the author's purpose. Students will advance their study by identifying sequence of events and relationships of characters, ideas, and cause-effect structures in complex pieces.

Using the writing process, students will produce creative and expository writing. Students will also eliminate redundancy while writing for a specific purpose using succinct language and smooth transitions. Additionally, students will conduct independent formal and informal research to produce unit projects which will be presented orally, demonstrating sound public speaking skills as well as summation techniques to present the main idea and key details of a topic.

NOTE: This is a NCAA approved course. **REQUIREMENTS:** Independent reading, personal responsibility and participation in class discussion is expected. Formal and informal research projects are required.

PREREQUISITE*: None.*

ENGLISH II ESSENTIALS (405)..... Credit: 1

Develop writing, and practice critical thinking and discussion in a class suited to skills and learning style. Read short stories, novels, poetry and drama from writers around the world. Increase research and note taking skills. Write the I-Search paper.

PREREQUISITE*: English I Essentials and/or teacher recommendation.*

ENGLISH II (406)..... Credit: 1

Focus on the craft of writing, both through practice and through analysis of nonfiction pieces and novel study. Students will read a wide-ranging variety of nonfiction: essays, speeches, articles, op-ed, cartoons, etc. Topics will be drawn from global perspectives and will center on the themes of the Reading/Writing Connection, Building Relationships, Ongoing Social Issues/Criticism, Understanding Self, Independence and Freedom, and Of Myself and Others. Students will understand how professional writers use language to convey ideas and students will apply those same language ideas to their own writing. Students will continue to develop analytical reading and writing skills. Students will complete an academic research paper in this course.

NOTE: This is a NCAA approved course. ***PREREQUISITE****: English I*

ENGLISH II Honors (407)..... Credit: 1

Students taking this class are to be highly motivated and have strong English skills which will be further developed at an accelerated pace. Meeting deadlines and demonstrating personal responsibility while independently reading assigned literature and composing assigned written responses are critical expectations, as students develop life-long qualities in becoming successful students.

Focus on the craft of writing, both through practice and through analysis of nonfiction pieces and novel study. Students will read a wide-ranging variety of nonfiction: essays, speeches, articles, op-ed, cartoons, etc. Topics will be drawn from global perspectives and will center on the themes of the Reading/Writing Connection, Building Relationships, Ongoing Social Issues/Criticism, Understanding Self, Independence and Freedom, and Of Myself and Others. Students will understand how professional writers use language to convey ideas and students will apply those same language ideas to their own writing. Students will continue to develop analytical reading and writing skills. Students will complete an academic research paper in this course.

REQUIREMENTS: Independent reading, personal responsibility and participation in class discussion is expected. Formal and informal research projects are required. **NOTE:** This is a NCAA approved course**.** ***PREREQUISITE****: None.*

ENGLISH

ENGLISH III ESSENTIALS (410)..... Credit: 1

This course is intended for juniors who need a modified English course. This course is combined with World Studies Fundamentals. The goal of this course is to prepare students for work force or technical school reading and writing. Students will also be prepared for the Reading Comprehension and Sentence Skills sections of the Accuplacer.

***PREREQUISITES**: English II Essentials and/or teacher recommendation.*

ENGLISH III (411)..... Credit: 1

This is a third-year course in English at the high school level. Students will refine and extend their writing skills. In addition, students will read some of the influential writers of the American canon and examine their subsequent impact on culture. Students in the English III R will read a minimum of six texts, and students in English III H will read a minimum of seven texts. All students will write a minimum of six essays.

NOTE: This is a NCAA approved course**. *PREREQUISITE**: English II.*

ENGLISH III (411)..... Credit: 1

This is a third-year course in English at the high school level. Students will refine and extend their writing skills. In addition, students will read some of the influential writers of the American canon and examine their subsequent impact on culture. Students in the English III R will read a minimum of six texts, and students in English III H will read a minimum of seven texts. All students will write a minimum of six essays.

NOTE: This is a NCAA approved course. ***PREREQUISITE**: English II.*

AS ORAL & INTERPERSONAL COMMUNICATION PS (413)..... Credit: 1

This course focuses upon developing, speaking, verbal and non-verbal communication and listening skills for the work place. Students will apply learning targets and course competencies through individual presentations, group activities and other projects. Presentations and projects could address careers including but not limited to health, business, automotive, construction, computers, and accounting. Students will also gain experience with reading visuals including but not limited to flow charts, blue prints, maps (road, meteorological, topographical, etc.), charts as well as technical manuals such as Mitchell, Chilton, etc.

NOTE: After completing this course with a "B" or better, students will be eligible for concurrent enrollment credit at MSTC of Marshfield, WI. ***PREREQUISITE**: Junior standing.*

AP ENGLISH: LANGUAGE & COMPOSITION PS (426)..... Credit: 1

Read and examine a minimum of seven texts including novels, dramas, and nonfiction. Also, expect to read and analyze a wide variety of short stories and essays, with an emphasis on satire. Course work emphasizes process writing first semester and then practice of written analysis under timed conditions during second semester. Applications will ask student to:

- Examine and evaluate denotation and connotation of diction.
- Identify and apply conventions in writing including:
  - a balance of generalization and specific illustrative detail.
  - a variety of sentence structures, including appropriate and effective use of subordination and coordination.
  - an organizational strategy enhanced by techniques such as thesis statements, topic sentences, transitions, and consistent point-of-view.
  - application of standardized American grammar, usage, and mechanical conventions.
- Analyze how diction, syntax, and figurative language develop tone and reveal purpose.
- Interpret complex prose.

Students are offered the opportunity to purchase trade books so students may annotate and index. Students do not have to purchase the texts since there are copies available; however, students may not write in these copies. The cost of the trade books varies due to publisher price increases. Checks should be made to Marshfield High School.

NOTE: This is a NCAA approved course.

REQUIREMENTS: Read and analyze a minimum of seven texts. Write at least three to four essays per quarter.

COURSE FEE: All students in this course are strongly urged to take the Advanced Placement Examination for college credit. The cost of the examination in May 2014 was $92.00. ***PREREQUISITES**: Sophomore standing.*

ENGLISH

ENGLISH 101COMPOSITION H (415)..... Credit: 1/2

Students will focus on techniques of composition with an emphasis on academic writing, which is applicable across the disciplines. They will practice exposition, persuasion, and argumentation, particularly paying attention to documentation. Students should demonstrate progress in the following criteria to prepare for success in TC CE Composition 102 PS:

1. Rhetorical Knowledge: Make appropriate rhetorical choices for producing texts with varying purposes for varying audiences.
2. Knowledge of Conventions: Demonstrate an understanding of the conventions of standard written English including documentation of source material in a recognized documentation style.
3. Critical Thinking, Reading, and Writing: Evaluate, synthesize, analyze, and produce researched academic writing.
4. Processes: Apply strategies in the writing process, from brainstorming to writing a draft, to proofreading and revising, to printing and publishing.

NOTE: This is only offered in the fall semester. All students who sign up for this course and/or DE Comp 102 will sit for the UW System placement tests in English. Students taking the course for UW credit will pay half of the current cost of three university credits. **NOTE:** This is a NCAA approved course.

COURSE FEE: Students have the opportunity to purchase books so they may annotate and index. Currently, the three texts are available to students for cost $93.00.

***PREREQUISITE**: Senior standing, a "B-" grade or better in English III Honors recommended, strong work ethic, recommendation of current English teacher.*

ENGLISH COMPOSITION H (417)..... Credit: 1

English Composition is for the motivated student who wants to prepare to write for college. Students will focus on techniques of composition with an emphasis on academic writing, applicable across disciplines. The writing process—researching, prewriting, drafting, editing, conferencing, and revising—will be emphasized. Essays may include: College Application, Cause/Effect, Definition, Division and Classification, Process Analysis, Compare/Contrast, and Persuasive. Students will prepare for college placement exams by studying grammar, mechanics, and usage. Students will also be required to read a nonfiction book and write a critical review each quarter.

NOTE: This is a NCAA approved course.

***PREREQUISITE**: Senior standing and teacher recommendation.*

TC CE ENGLISH 102 COMPOSITION PS (416)..... Credit:1/2

Students may earn high school credit as well as college credit. Students who wish to earn concurrent credit must complete on on-line application to UW-Wood County and submit a copy of his or her ACT score as well as pass the English Placement Test. Students will focus on techniques of composition with an emphasis on academic writing, which is applicable across the disciplines. Specifically, they will practice expository, persuasive, and argumentative modes of discourse, particularly paying attention to documentation. Students will demonstrate proficiency of the Learning Outcomes as established by the University Wisconsin Board of Regents.

NOTE: This is only offered in the spring semester. Students must have tested into DE Eng 102 and/or have completed DE Eng. 101 with grades of C or better. Students taking the course for UW credit will pay half of the current cost of three university credits.

NOTE: This is a NCAA approved course.

COURSE FEE: Estimated cost of university placement exam is $30 and estimated cost of university credit course is $300.

***PREREQUISTIES**: Successful completion of English 101 Composition H (415) and Senior Standing*.

ENGLISH IV CONTEMPORARY LITERATURE R (419)..... Credit: 1

This course is designed for high school seniors entering college, technical college, or the workforce after high school. Students will assess and analyze a variety of material, including novels, plays, poetry, essays, short stories, articles, and films. Emphasis will be placed on evidence-based writing and critical thinking skills utilized during analysis. Students can expect to read, write, and develop skills that are directly applicable to life after high school. This course would be the equivalent of a senior regulars English course, geared towards preparing students in the areas of reading, writing, speaking, listening, and teaming for English courses required at a technical/two-year school, a four-year university, or for students going directly into the work force.

NOTE: This is a NCAA approved course. ***PREREQUISITE:** Senior standing.*

ENGLISH

ENGLISH IV ESSENTIALS (420)..... Credit: 1

This course is intended for seniors who need a modified English class. The goal of the course will be to prepare students in the areas of reading, writing, speaking, listening, teaming, and using media and technology for the English courses required at a technical/two-year school or for those students going directly into the work force.

PREREQUISITE: *Teacher and/or Guidance Counselor recommendation*

AP ENGLISH: LITERATURE & COMPOSITION PS (425)..... Credit: 1

Participate in advanced work in the areas of close reading, critical thinking, literary analysis, discussion, writing, and advanced-placement-style objective examinations. This course requires in-depth reading and discussion of several texts (deemed appropriate for college bound students) drawn from multiple genres, periods, and cultures. Writing instruction will promote development of clear ideas, coherent, and persuasive language. Attention to precision, correctness, and nuance in diction and vocabulary, as well as to stylistic maturity will also be emphasized.

NOTE: This is a NCAA approved course.

REQUIREMENTS: Read a minimum of six novels and two plays as homework in addition to three independent enrichment readings and essays and one independent research project for connective analysis.

PREREQUISITES*: Senior standing and a willingness and ability to work diligently at an increased pace with rigorous materials.*

CREATIVE WRITING (428)..... Credit: 1/2

Use the writing process to create poetry, personal narrative, short story, character sketch, personal essay, dialogue, oral interpretation and criticism. Study and create pieces that focus on specific literary elements to build strong overall pieces. Learn to critique others, edit and publish. Create and present a writing portfolio. This is a course for the creative student who wishes to grow as a writer, and is willing to experiment with new writing styles and content.

NOTE: This is a NCAA approved course. ***PREREQUISITE****: None.*

MID-STATE TECHNICAL COLLEGE AS WRITTEN COMMUNICATION (431)..... Credit: 1

Develop writing skills which include prewriting, drafting, revising, and editing. Students write a minimum of 10 assignments including an academic research paper. Assignments are designed to help the learner analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content related to career interests. Grammar and mechanics are also studied throughout the year.

PREREQUISITE*: Senior standing.*

DRAMA (437)..... Credit: 1/2

So much more than acting, this course will provide a broad overview of what constitutes "drama" and "theatre." Learn about the roots and rich history of theatre; experience the basics of acting, including warm-up routines, acting exercises, and how to create character. Become familiar with the spectrum of theatre study and careers in theatre. Understand the technical components of theatre production and gain insight into theatre's counterparts, including radio, film, and television. Expect a mix of textbook study, on-your-feet participation activities, current articles, and video clips that bring the theatre world to the classroom.

PREREQUISITE*: None.*

SPEECH I: INTRODUCTION TO SPEAKING (440)..... Credit: 1/2

What is communication? In this course, gain experience in and control of informal, formal, and nonverbal communication:

- Learn and practice the essentials of speech building and delivery.
- Practice the art of listening and become a more discerning evaluator of public and mass communication.
- Recognize the role of personal speeches and learn how to handle speech anxiety.
- Develop audience awareness and their role in the relationship between message and receiver.
- Find your voice through informative, persuasive, and occasion based speech activities.
- Discover the art of speech as a social experience.

Know that speech writing and delivery are absolute expectations; this is not a class for the passive learner.

NOTE: This is a NCAA approved course. ***PREREQUISITE****: None.*

ENGLISH

MTSS READING INTERVENTION (445).....Credit: 1/2 or 1

This Course is a Tier 2 intervention in which students will learn skills and strategies designed to support deficiencies in their reading skills. This course will emphasize the mastery and use of transferable reading strategies and skills that students may use with reading material from any of their content-area courses. The course will begin with an assessment to determine which areas of students' reading skills need the most support. Lessons and skills taught will be centered on the results of assessment data and student-identified interests and needs.

***PREREQUISITE**: This course is only for students who have been identified by district screening measures*

FAMILY & CONSUMER SCIENCES

HUMAN SERVICES ACADEMY

HSA is a unique opportunity for students to participate in the daily activities of community non- profit agencies and interactions with people of all ages. This is a multi-year educational program that integrates advising with technical instruction in the human service fields. Courses meet in the Tiny Tiger Intergenerational Center and include: Career Pathways, Caregiving & Community, Careers with Kids, Connecting Generations and Internship

CAREGIVING AND COMMUNITY (780)..... Credit: 1/2

Create a more caring school, community and society for youth, special needs people and senior adults. Observe and interact with people in the Tiny Tiger Intergenerational Center while learning the meaning of "giving" and "caring".

***PREREQUISITE**: None.*

CONNECTING GENERATIONS (781)..... Credit: 1/2

Gain knowledge of working with individuals from age 1 to 100, while investigating how aging affects people and their families. Identify the benefits of intergenerational care and spend time interacting with children and their "grandfriends" in the Tiny Tiger Intergenerational Center.

***PREREQUISITE**: None*

TC CAREERS WITH KIDS PS (790)..... Credit: 1/2

Learn about a variety of careers working with young children. Gain knowledge of child development and practice skills in child care and guidance. Plan and implement activities with children in the Tiny Tiger Intergenerational Center. Earn the license necessary for employment in a child care facility.

NOTE: Students that successfully complete this course can earn Transcripted Credit from Mid-State Technical College for Health, Safety, and Nutrition #10307167, 3 credits & Foundations of Early Childhood #10307148, 3 credits.

***PREREQUISITE**: Junior standing or age 17 at the beginning of the school year.*

CAREER PATHWAYS (785)..... Credit: 1/2

Practice "soft" skills such as honesty, respect, and responsibility, interact with post-secondary educators and professionals and investigate career options in 16 career pathways. Thoughtful reflection and career exploration will result in decision making skills that will be beneficial when students select continuing education and career options.

***PREREQUISITE**: None*

TC PARENTS AND CHILDREN PS (788)..... Credit: 1/2

Establish healthy parent-child relationships, explore the responsibilities of parenting, and gain the skills necessary to make one of the most important decisions of life. Young adults in this course will also develop the problem-solving skills that are needed to become resourceful, responsible parents.

NOTE: Students that successfully complete this course can earn Transcripted Credit from Mid-State Technical College for Infant & Toddler Development #10307151, 3 credits

***PREREQUISITE**: Sophomore standing only. Juniors and seniors are eligible for transcripted credit*

FAMILY DYNAMICS (786)..... Credit: 1/2

Investigate answers to these questions: What does "family" mean? What is your role as a family member? How can you better cope with a crisis and its effects on the family? Gain a better understanding of family related concerns.

***PREREQUISITE**: None*.

FOOD, FAMILY AND SOCIETY (782)..... Credit: 1/2

Why do we eat what we eat? Understand food- related concerns such as providing for your family, availability, nutrition and the impact of food on our society. Investigate common misconceptions about food consumption and be involved in food labs.

COURSE FEE: Student lab fee $10.00.

***PREREQUISITE**: None.*

FAMILY & CONSUMER SCIENCES

FOOD AND HOSPITALITY (784)..... Credit: 1/2

Gain knowledge of and practice the skills necessary for success in the food service industry by participating in food service simulations while developing skills needed for the workplace. Young adults in this course will also develop the problem-solving skills that are needed to become resourceful employees while examining trends that affect the way society views the food we eat.

COURSE FEE: Student lab fee $10.00. ***PREREQUISITE****: None*.

EXPLORING HEALTH CAREERS (792)..... Credit: 1/2

Explore career opportunities and acquire the cross-training skills necessary to make an educated career choice in the ever-growing health services field. Participate in applied academics and computer based activities that mimic real-world teamwork and problem solving in the dynamic health care system.

PREREQUISITE*: Sophomore standing.*

MEDICAL TERMINOLOGY (791)..... Credit: 1

Gain knowledge of medical terminology while learning the operative, diagnostic, therapeutic and symptomatic terminology of all body systems.

NOTE: This course is required for Health Career Connections which is application and interview dependent with limited space**.**

PREREQUISITE*: Junior standing and optional student book fee of $70.00.*

TC MEDICAL TERMINOLOGY PS (793)..... Credit: 1

Gain knowledge of medical terminology while learning the operative, diagnostic, therapeutic and symptomatic terminology of all body systems.

NOTE: This course is required for Health Career Connections which is application and interview dependent with limited space.

NOTE: Students that successfully complete this course can earn Transcripted Credit from Mid-State Technical College for Medical Terminology #10501101, 3 credits.

REQUIREMENTS: Do research in medical journals, writing critical reviews of that research and evaluation of clinical case studies while learning the operative, diagnostic, therapeutic and symptomatic terminology of all body systems.

PREREQUISITES*: Junior standing and optional student book fee of $70.00.*

CONSUMER AND PERSONAL FINANCE (794)..... Credit:1/2

Through a series of simulations, projects, and teamwork activities, students will prepare for their personal lives while becoming economically responsible. Areas of study will include fundamental economics concepts, personal financial planning; financial pitfalls, budgeting, income and money management (checking, savings, money market accounts), spending, mortgages, student loans, credit and debt management, asset/insurance protection, financial statements, payroll, retirement planning, taxation, consumer practices and purchases: rights, responsibilities and decision-making processes. In each unit of the course, essential math and literacy skills will be emphasized.

NOTE: This course is required for graduation.

PREREQUISITE*: Junior standing.*

HEALTH CAREER CONNECTIONS (796)..... Credits: 3

Health Career Connections offers internships designed to familiarize students with the various careers in the medical profession. Students will learn skills necessary for their health care career pathway, in addition to working with others, legal and ethical responsibilities, and cultural considerations in the health care industry, problem solving, decision making, accepting personal responsibility, and self-management. Students intending to enroll in Health Career Connections should register for Medical Terminology (791 or 793) for 1 credit, Exploring Health Careers (792) for ½ credit and Anatomy and Physiology (113 or 114) for 1 credit in their junior year. Nursing Assistant certification will be required between junior and senior year.

NOTE: To apply for Health Career Connections you must complete a program application and interview with employers during your sophomore year.

PREREQUISITES*: Senior standing, successful completion of Exploring Health Careers, Anatomy & Physiology, and Medical Terminology, complete an application form and employer interview.*

FAMILY & CONSUMER SCIENCES

FAMILY & CONSUMER SCIENCE INTERNSHIP (798)..... Credits: 2

Join the fastest growing career area - the service industry! Gain knowledge of how to establish career goals, increase ability to gain and employment, and develop successful habits in the workplace. Earn a credit for your job by coordinating your work schedule with your classes or continuing to work after school. Students can apply skills by competing in Family, Career & Community Leaders of America (FCCLA) events.

NOTE: Membership in FCCLA is encouraged**.**

PREREQUISITES*: Senior standing, Co-op Application Form and prior completion of a FACS course or instructor's consent.*

FUTURE TEACHER INTERNSHIP (789)..... Credit:1/2

Students will have the opportunity to work with a teacher(s) in various classroom settings to investigate career options in the Education and Training Career Cluster – Teaching/Training Pathway. Students will have a two- period assignment four days a week for a semester to work in an assigned classroom. The fifth day will be for students to attend seminars on tutoring, applying to the university, collaborating with other future teacher interns, learning about professional organizations and professional learning communities, interacting with students, collaborating with mentor teacher(s), and meeting program learning targets.

PREREQUISITES*: Senior standing, Careers with Kids (790) or instructor consent; current with all credits & graduation requirements (minimum UW admission requirements), minimum of 3.0 GPA, Internship/Co-op Application and complete the ACT prior to September of senior year.*

SPORTS MEDICINE II (799)..... Credits: 1/2

Volunteer as an Athletic Training Student Aide for

60 hours at athletic games and practices. During your volunteer hours, you will be assisting the Licensed Athletic Trainer (LAT) in caring for injured athletes, monitoring rehabilitation exercises as directed by the LAT, preparing medical kits, and reviewing/maintaining medical records. Course requirements include a log of 60 hours, journal entries, performance cards, and evaluations with a Licensed Athletic Trainer.

PREREQUISTES*: Grade of B or better in Summer School Sports Medicine I (048) taken the summer before you begin the class, completion of an interview with Sports Medicine I instructors, and maintain a 3.0 GPA.*

FAMILY AND CONSUMER SCIENCES YOUTH APPRENTICESHIP..... Credit: 1

For more information see page 19. Juniors should sign up for course # 779 Seniors should sign up for course # 795

PREREQUISITES: Junior standing, application form and instructor's consent.

MATH PATHWAYS FOR GRADES 7-12

Technical College Preparation

Technical College, Strong Preparation

7- Math 7
8- Pre-Algebra
9- Algebra 1 R/H
10- Geometry R/H
11- Algebra 2 R/H
12- Math 105/110 **or** Technical Math

Technical College, Typical Preparation

7- Math 7
8- Pre-Algebra
9- Essentials 1
10- Essentials 2
11- Algebra 1 R
12- Geometry R

Technical College, Minimum Preparation

7- Transition Math 7
8- Transition Math 8
9- Essentials 1
10- Essentials 2
11- Advanced Math Applications or Algebra 1
12- None

Four Year University Preparation

Four Year University, Strong Preparation-Option 1

7- Pre-Algebra
8- Algebra 1
9- Geometry R/H
10- Algebra 2 R/H
11- Pre-Calculus H AB/BC
12- AP Calculus H AB/BC **or** Statistics H

Four Year University, Strong Preparation-Option 2

7- Math 7
8- Pre-Algebra
9- Algebra 1 R/H
10- Geometry R/H **and** Algebra 2 R/H
11- Pre-Calculus H AB/BC
12- AP Calculus H AB/BC **or** AP Statistics

Four Year University, Typical Preparation

7- Math 7
8- Pre-Algebra
9- Algebra 1 R/H
10- Geometry R/H
11- Algebra 2 R/H
12- Pre-Calculus H **or** Technical Math **or** Math 105/110

Four Year University, Minimum Preparation

7- Math 7
8- Pre-Algebra
9- Algebra 1 R/H
10- Geometry R/H
11- Algebra 2 R/H
12- None*

*post-secondary schools recommend 4 years of high school math

These pathways are examples of the sequencing of math classes, and are intended as a guide in planning course selection. Other pathways are possible. Please consult a guidance counselor or math instructor if you have questions.

MATHEMATICS

ESSENTIAL MATH 1 FOUNDATION (200)…….Credit: 1

The class is self-paced using a computer program called Accelerated Math from Renaissance Learning. A student must master all objectives to successfully pass the course. Survey algebra, geometry, problem solving strategies, probability and statistics.

***PREREQUISITE**: None.*

ESSENTIAL MATH 2 (201)……Credit: 1

The class is self-paced using a computer program called Accelerated Math from Renaissance Learning. A student must master all objectives to successfully pass the course. Specialize skills in algebra, geometry, probability, statistics, and problem solving.

***PREREQUISITES**: Essential Math I (200) or instructor's recommendation.*

ADVANCED MATH ALGEBRA APPLICATIONS (202)……Credit: 1

The class is self-paced using a computer program called Accelerated Math from Renaissance Learning. A student must master all objectives to successfully pass the course. AMA is the continuation of the Essentials 1 & 2 series focusing on Algebra 1 topics.

***PREREQUISITES**: Essential Math II (201) or instructor's recommendation.*

●ALGEBRA 1 (205)…… Credit: 1

Develop the algebraic concepts and skills necessary for further math study. Use properties to evaluate expressions and operations with polynomials. Solve and graph linear equations and systems, and factor quadratic equations.

NOTE: This is a NCAA approved course. ***PREREQUISITE**: None.*

ALGEBRA 1 Honors (206)…… Credit: 1

Use algebraic techniques to solve problems, graph functions on the coordinate plane, analyze measures of central tendency, and solve linear and quadratic equations. This course will cover much of the same material as Algebra 1, but in more depth and at an accelerated pace. Additional topics will be included.

REQUIREMENTS: This course is for the student with skills and motivation to take on an accelerated and more rigorous Algebra curriculum. Students are expected to participate in class and complete daily assignments. Considerable amount of time on homework is expected outside of class.

NOTE: This is a NCAA approved course.

***PREQUISITE**: Algebra 1 in 8th grade, or a PreAlgebra grade of B or better.*

●GEOMETRY (211)…… Credit: 1

Use geometric terminology and notation to describe 2-D and 3-D objects. Apply properties of polygons and circles. Use formulas to calculate length, angle measure, midpoint, slope, area, and volume. Reason proportionally and solve trigonometric equations. Use the coordinate plane to characterize geometric properties.

NOTE: A calculator is required for this course. It may be a scientific or graphing calculator.

NOTE: This is a NCAA approved course. ***PREREQUISITE**: Algebra 1R (205) or Algebra 1H (206).*

●GEOMETRY Honors (212)…… Credit: 1

Learn plane and solid geometry, apply theorems while developing logical reasoning and problem solving through original proofs, non-routine problems and an introduction to analytic geometry. Theory is emphasized.

NOTE: This is a NCAA approved course. **REQUIREMENTS:** This course emphasizes the theory of geometric concepts. Students will examine and write proofs frequently. Students are expected to participate in class, complete daily assignments, projects, quizzes and tests. Considerable amount of time on homework is expected outside of class**.**

***PREREQUISITES**: Algebra I H or a grade of "A" or "B" in Algebra (205).*

●ALGEBRA 2 (207)…… Credit: 1

Extend your study of real numbers, polynomials, and functions. Solve and graph quadratic, exponential, and logarithmic equations. Investigate conic sections and complex numbers. Algebra 2 is a prerequisite for Pre-Calculus, Math 105/110, Statistics, and college admission.

NOTE: A graphing calculator is highly recommended. **NOTE**: This is a NCAA approved course.

COURSE FEE: $2.50 for graphing notebook if not purchased on own. ***PREREQUISITE**: Geometry R (211) or G e o m e t r y H (212).*

●*= Successful completion of Algebra 1, Geometry and Algebra 2 may lead to advanced standing with Mid-State Technical College.*

MATHEMATICS

●ALGEBRA 2 Honors (208)..... Credit: 1

Extend your algebraic reasoning. Apply quadratic, exponential, and logarithmic relations. Analyze sequences, series, and conic sections.

NOTE: A graphing calculator is required for this course. Recommended graphing calculators are TI-83 or TI-84.

NOTE: This is a NCAA approved course**. NOTE:** This is a NCAA approved course. **REQUIREMENTS:** This course is for the student with skills and motivation to take on an accelerated and more rigorous Algebra 2 curriculum. Students are expected to participate in class, complete daily assignments, projects, quizzes and tests. Considerable amount of time on homework is expected outside of class.

***PREREQUISITES**: Geometry H (212) or a grade of "A" or "B" in Geometry (211).*

MID-STATE TECHNICAL COLLEGE AS TECHNICAL MATH (227)..... Credit: 1

This course is comparable to the (first general math) course offered at Mid-State Technical College called Intermediate Algebra with Applications. Students will earn Wisconsin Technical College Advanced Standing with a B or better both semesters of this course in combination with qualifying Accuplacer scores in Arithmetic and Algebra or qualifying ACT Math score. Topics to be covered will include: real numbers; solving linear, quadratic and rational expressions; percent, proportions and variation; functions and graphs; formula rearrangement; operations with polynomials; and solving systems of equations. Emphasis will be on the application of skills to technical problems. This course will also help students to prepare for a Math College Placement Exam.

***PREQUISITES**: Senior Standing and three years of high school math.*

MTSS MATH INTERVENTION (230)..... Credit: 1/2 or 1

This course is a Tier 2 Intervention designed for students who lag well behind their peers, and demonstrate weak progress on screening measures. The course will begin with an assessment to determine what skills each student needs to focus on. Students will receive individualized instruction and basic skills practice in areas of need. Biweekly progress monitoring will be used to make decisions for future skills and content covered.

Note: A calculator is recommended for this course.

***PREREQUISITE**: This course is only for students who have been identified by district screening measures.*

UNIVERSITY OF WISCONSIN SYSTEM UW MATH 105 – INTERMEDIATE ALGEBRA H (209)..... Credit: 1/2

Emphasizes algebraic techniques with polynomials, fractional expressions, exponents and radicals, linear and quadratic equations, and inequalities. Introduction to functions, their graphs and analytic geometry.

NOTE: This is only offered in the fall semester. All students who sign up for this course may sit for the UW System placement test in Mathematics to place into Math 110. This course will help students prepare for the UW System placement test in mathematics.

NOTE: A scientific calculator is required for this course, but a graphing calculator is recommended. This class meets for one semester.

NOTE: This is a NCAA approved course.

***PREREQUISITE**: Senior Status and completion of three years of math, qualifying placement score.*

UNIVERSITY OF WISCONSIN SYSTEM UW TC CE MATH 110 – COLLEGE ALGEBRA PS (210)..... Credit: 1/2

Definition of function; linear and non-linear functions and graphs including logarithmic and exponential functions; systems of linear equations; theory of polynomial equations and optional topics such as mathematical induction, matrix solution of linear systems and Cramer's rule. MS.

NOTE: This is a NCAA approved course. **NOTE:** This is only offered in the spring semester. Students must have tested into Math 110 in order to take Math 110 for college credit. Students taking the course for UW credit will pay half of the current cost of three university credits. Students may opt to take Math 110 solely for high school credit under the UW grading policy.

NOTE: A graphing calculator is required for this course. This class meets for one semester. Recommended graphing calculators are TI-83 or TI-84.

COURSE FEE: Estimated cost of university placement exam is $30 and estimated cost of university credit course is $300. ***PREREQUISITES**: Senior status, Math 105, completion of three years of math or teacher recommendation.*

MATHEMATICS

PRE-CALCULUS AB Honors (218)..... Credit: 1

Prepare for AP Calculus AB (221). Emphasis will include: trigonometry, analytic geometry, mathematical functions, limits and elementary concepts of calculus.

NOTE: A graphing calculator is required for this course. **NOTE:** This is a NCAA approved course.

REQUIREMENTS: This rigorous course prepares students for AP Calculus AB. Students are expected to participate in class, complete daily assignments, projects, quizzes and tests. Considerable amount of time on homework is expected outside of class.

***PREREQUISITES**: Algebra 2 H (208), or consent of Algebra 2 (207) instructor.*

PRE-CALCULUS BC Honors (219)..... Credit: 1

Prepare for AP Calculus BC (222). Topics include trigonometry, analytic geometry, functions, limits, and derivatives.

NOTE: A graphing calculator is required for this course. **NOTE:** This is a NCAA approved course.

REQUIREMENTS: This course prepares students for AP Calculus BC and covers several chapters of Calculus material. Its pace is more accelerated than Pre-Calculus AB. Students are expected to participate in class, complete daily assignments, projects, quizzes and tests. Considerable amount of time on homework is expected outside of class.

***PREREQUISITES**: Algebra 2 H (208), recommendation of instructor*

AP CALCULUS AB PS (221)..... Credit: 1

Study limits, derivatives, and integrals. After learning techniques of differentiation, apply derivatives to function analysis, rates of change, and optimization. After learning techniques of integration, use integrals to find areas, volumes, displacement, and net change. Examine slope fields and significant mathematical theorems. This course is equivalent to one semester of college calculus and 5 college credits may be earned if you are successful on the AP exam.

NOTE: A graphing calculator is required for this course. **NOTE:** This is a NCAA approved course.

REQUIREMENT: This is a college level course that covers the material of one college semester of calculus. Students should have a strong foundation of math skills from prerequisite courses. Students are expected to participate in class, complete daily assignments, projects, quizzes and tests. Considerable amount of time on homework is expected outside of class. Students are expected to memorize formulas and unit circle values.

***PREREQUISITES**: Pre-Calculus AB H (218).*

AP CALCULUS BC PS (222)..... Credit: 1

This course covers all the topics of AP Calculus AB (221) and more. After mastering more complex techniques of integration, apply concepts to polar and parametric equations. Investigate the convergence of infinite series, and construct Taylor Polynomials. This course is equivalent to two semesters of college calculus, and up to 10 college credits may be earned if you are successful on the AP exam. The course will start online two weeks before the start of the regular school year and end the day after the AP Exam in May for Calculus.

NOTE: This is a NCAA approved course **REQUIREMENTS:** This is a college level course that covers the material of two college semesters of calculus. Content is covered at a brisk pace. Students should have a strong foundation of math skills from prerequisite courses. Students are expected to participate in class, complete daily assignments, projects, quizzes and tests. Considerable amount of time on homework is expected outside of class. Students are expected to memorize formulas and unit circle values. A graphing calculator is required for this course. ***PREREQUISITES**: Pre-Calculus BC H (219).*

AP STATISTICS PS Blended/Online (223)..... Credit: 1

Prepare for the AP Statistics exam through a mix of classroom instruction and online tools like discussion boards, drop-boxes and online labs. Students who enroll in this class will cover the same curriculum as the traditional AP Statistics class; however, there will be activities that must be completed online. **The course will start online two weeks before the start of the regular school year and** end the day after the AP Exam in May for Statistics.

Note: Candidates for this class must be independent learners, conscientious about due dates, and be a proactive problem solver.

NOTE: This is a NCAA approved course.

REQUIREMENTS: Reliable computer technology and access to the internet.

***PREREQUISITES**: "B" average in series of Algebra (205 or 206), Geometry (211 or 212), Advanced Algebra/Algebra 2 (207 or 208).*

MUSIC

♫ BAND (750)..... Credit: 1

Centered around the concert season, perform music for concerts, field shows, parades, solo-ensemble and support of home athletic events. Advance musicianship through lessons and extra-curricular ensembles such as Flute Choir, Saxophone Choir, Woodwind and Brass Choir. See prerequisites for those groups. **COURSE FEE**: Students must provide black shoes, black socks, and reeds, which are available for purchase.

SYMPHONIC BAND - **Prerequisites**: By audition only with freshman through senior standing and experience on wind or percussion instrument and/or consent of instructor and band camp prior to the start of the year.

WIND ENSEMBLE - **Prerequisites**: By audition only, with freshman through senior standing, and experience on wind or percussion instrument and/or consent of instructor and band camp prior to the start of the year.

NOTE: Students wanting honors credit should sign up for Wind Ensemble H (763).

♫ WIND ENSEMBLE Honors (763)..... Credit: 1

Centered around the concert season, perform music for concerts, field shows, parades, solo-ensemble and support of home athletic events. Advance musicianship through lessons and extra-curricular ensembles such as Flute Choir, Saxophone Choir, Woodwind and Brass Choir.

REQUIREMENTS: Must play a class "A" solo on the major instrument that you play in Wind Ensemble and a Class "A" ensemble (duet, trio, quartet or quintet). Both works must be performed at the Solo & Ensemble Festival at the district and state level if you qualify.

COURSE FEE: Students must provide black shoes & socks, reeds, which are available for purchase. ***PREREQUISITES****: By audition only, with freshman through senior standing.*

♫ JAZZ BAND (757)..... Credit: 1/2 per year

Perform at concerts and community functions. Meeting times will be set by the group for 1½ hours per week outside the school day. ***PREREQUISITES****: Concurrent enrollment in Band (750) or Wind Ensemble H (763).*

♫ CHAMBER ORCHESTRA (760)..... Credit: 1

Develop skills in the string program. Advanced techniques necessary for Symphonic Strings are addressed. These include advanced bowing styles, upper positions, tone control, three octave scales and ensemble playing. Performances include two full concerts, "Pops" Concert, Concert Festival and Solo & Ensemble Festival. **REQUIREMENT: Combined performance with the symphonic orchestra for graduation.** Students wanting honors credit should sign up for Chamber Orchestra Honors (764).

PREREQUISITE*: Freshman with prior experience on a string instrument or instructor's consent. By audition for sophomores and juniors*

♫ CHAMBER ORCHESTRA Honors (764)..... Credit: 1

Exhibit talents and proficiency on your string instrument performing great symphonic and string orchestra literature. The orchestra plays two formal concerts and a "Pops" concert, as well as Concert Festival, Solo & Ensemble Festival and some community events. **REQUIREMENTS:** Select, prepare and perform a class "B" solo at the District Solo & Ensemble Festival & State Solo & Ensemble Festival if you qualify. Complete a research paper, attend and critique a professional or semi-professional music concert, assist the elementary orchestra directors with at least two after-school rehearsals each semester. Combined performance with the symphonic orchestra for graduation.

PREREQUISITES*: Freshman, sophomore, or junior standing with prior experience on violin, viola, cello or string bass. Sophomores and juniors by audition. Students must perform in the String Choir for Solo & Ensemble, attend and critique one professional or semi- professional music concert* ***per semester*** *and/or director's approval.*

♫ SYMPHONIC STRINGS (758)..... Credit: 1

Exhibit talents and proficiency on your string instrument performing great symphonic and string orchestra literature. The orchestra plays two formal concerts and a "Pops" concert, as well as Concert Festival, Solo & Ensemble Festival and some community events. Sophomore and junior members are required to play for graduation ceremonies. Students desiring "honors" credit should sign up for Symphonic Strings Honors (761).

PREREQUISITES*: Prior experience on violin, viola, cello or string bass and/or instructor's approval. Senior standing, with sophomores and juniors placed by audition.*

♫ **= Just a reminder that band, orchestra and choir are year-long classes. Students must supply their own instrument. Students using school instruments and will be charged a $50 rental fee. Students participating in Solo & Ensemble must purchase their music.**

MUSIC

♬ SYMPHONIC STRINGS Honors (761)..... Credit: 1

Exhibit talents and proficiency on your string instrument performing great symphonic and string orchestra literature. The orchestra plays two formal concerts and a "Pops" concert, as well as Concert Festival, Solo & Ensemble Festival and some community events. Sophomore and junior members are required to play for graduation ceremonies.

REQUIREMENTS: Select, prepare and perform a class "B" solo at the District Solo & Ensemble Festival & State Solo & Ensemble Festival if you qualify. Complete a research paper, attend and critique a professional or semi-professional music concert, assist the elementary orchestra directors with at least two after-school rehearsals each semester.

***PREREQUISITES**: Prior experience on violin, viola, cello or string bass and/or instructor's approval. Senior standing, with sophomores and juniors placed by audition*.

♬ ORCHESTRA (WINDS) Honors (759).....Credit: 1/2 per year

Wind and percussion players are chosen either by audition or the recommendation of the band directors. Wind and percussion players rehearse before school from 7:00-7:45 a.m. two or three days per week. The major concentration is on the performance of great symphonic literature and "light" classics. **All Orchestra Winds H members play for graduation ceremonies**.

REQUIREMENTS: Performances include: two formal concerts, a "Pops" Concert, and Concert Festival.

***PREREQUISITES**: Permission of Orchestra Director. Orchestra Winds H members must be members of the band. DO NOT sign up for this class without prior approval from the Orchestra Director*

♬ CHAMBER CHOIR (773)..... Credit: 1

Build those music fundamentals for music reading, ensemble blend and balance and vocal production. Literature will consist mainly of four-part choral work. Group may be divided into separate male and female ensembles.

***PREREQUISITE**: None.*

♬ TREBLE CHOIR (774)..... Credit: 1

Build those music fundamentals for music reading, ensemble blend and balance and vocal production. Literature will consist mainly of three-part choral work.

***PREREQUISITE**: Sophomore standing, unless otherwise approved by director*

♬ CONCERT CHOIR (775)..... Credit: 1

Mixed voices are sought for tonal balance and performance excellence. Difficult choral literature is used. Performances include Homecoming, winter concert, Solo & Ensemble Festival, spring concert, Pops Concert, graduation and local performances. Madrigal Singers are chosen from this group.

***PREREQUISITE**: Junior standing, unless otherwise approved by the director and audition.*

AP MUSIC THEORY PS (778)..... Credit: 1

Delve into the mechanics or technical aspects of music, which lead to understanding of, and working with rhythms, scales, chord structure and four-part harmony. Some piano experience suggested, but not essential. Not for beginners.

NOTE: $40 textbook fee.

REQUIREMENTS: You will sight-sing at level 3, major & minor, part-write in 4 vocal parts according to 17th Century part-writing rules and complete Melodic & Harmonic Dictation – major & minor.

***PREREQUISITES**: Junior standing and passing of a basic music proficiency during the first week of the course*.

SOUNDSCAPE (776)..... Credit: 1/2

Create music, develop melodies, add instruments to a selection or write your own compositions using computer software with electronic keyboards.

***PREREQUISITE**: Junior standing or sophomores with instructor consent. Self-motivated students that can follow rubrics and work independently.*

♬ = Just a reminder that band, orchestra and choir are year-long classes. Students must supply their own instrument. Students using school instruments and will be charged a $50 rental fee. Students participating in Solo & Ensemble must purchase their music.

PHYSICAL EDUCATION, HEALTH, DRIVERS ED.

FIT FOR LIFE (600)..... Credit: 1/2

Students will develop self-management skills related to Aerobic Fitness, Muscle Fitness, Flexibility, and Body Composition. Expected safe practices, personal and social skills, and proper procedures related to equipment and facilities are integrated into all aspects of the class and serves as a prerequisite to higher level physical education courses. Learning how to live a healthy lifestyle, and planning for a healthy future will be the overlying focus of Fit for Life.

REQUIRED: One-piece swimsuit, shorts/sweatpants, t- shirt, and athletic shoes, pencil, and folder to remain at school in gym locker.

COURSE FEE: heart rate monitor strap $5.00, fees may apply for field experience.

***PREREQUISITE**: Open to freshmen, sophomores taking ESS for the first time, and transferring sophomores only*.

PERSONAL TRAINING – PERFORMANCE ENHANCEMENT (601)..... Credit: 1/2

Participants will analyze their current level of fitness, set goals, and develop a personal workout plan to meet those goals. Students will be exposed to a variety of concepts that affect performance, such as Periodization, nutrition, motivational tools, training psychology, and optimal wellness. Activities may include: strength training, endurance conditioning, flexibility training, fitness assessment, goal setting and fitness plan development, nutritional analysis, and sport specific drills to enhance speed, power, agility, balance, core strength, and coordination development. Personal responsibility and daily effort will be assessed with daily logs.

REQUIRED: Daily: shorts, t-shirt, and athletic shoes (to remain at school), occasionally one-piece swimsuit will be needed.

COURSE FEE: Lab fee ($10.00) includes heart rate monitor strap, activity log book and nutritional sampling, and field experiences

***PREREQUISITE**: Sophomore standing, Fit for Life.*

OUTDOOR PURSUITS (602) ..... Credit: 1/2

Develop the knowledge and skills necessary to participate in many outdoor fitness, sport, and recreational activities. Outdoor pursuits units include hiking, water games, backpacking, mountain biking, archery, scuba, snorkeling, climbing skating, camping, snow shoeing, winter games, and cross country skiing.

REQUIRED: Appropriate active wear for weather, including footwear.

COURSE FEE: Heart Rate monitor strap ($5.00, if needed) and portfolio ($1.00).

***PREREQUISITE**: Sophomore standing, Fit for Life.*

ADVENTURE CHALLENGES (603)..... Credit: 1/2

Develop leadership skills as you are taken through a progression of problem-solving, trust, and communication activities to prepare you for advancement to the low and high ropes activities including the Red Rock climbing wall. Learn to set-up/take down the ropes course, spotting and belaying skills, climbing technique, risk management, climbing commands, and safety procedures. Additional units consist of; mountain biking, disc golf, camping, orienteering, archery, fitness activities, and water challenges.

REQUIRED: Appropriate active wear and athletic shoes.

COURSE FEE: Heart rate monitor strap $5.00

***PREREQUISITE**: Sophomore standing, Fit for Life.*

SPORTS CHALLENGE-TEAM (604)..... Credit: 1/2

Be a team player! Team sports are competitive, challenging, enjoyable, and provide lots of opportunity for social interaction. Improve your fitness, knowledge, skills, and confidence in a variety of team sports. Rules, strategies, equipment, injury prevention, and sport-specific conditioning/training are discussed in this course. Develop and lead practice sessions as well as conditioning programs.

REQUIRED: Appropriate active wear and athletic shoes

COURSE FEE: Heart rate monitor strap $5.00, possible fees may apply.

***PREREQUISITE**: Sophomore standing, Fit for Life*

PHYSICAL EDUCATION MEDICAL EXCUSE POLICY

Student participation requirements in physical education may be modified due to injuries or illness. Parent notes will be accepted for modification of activities for a maximum of two days. Modifications of class requirements for more than two days will require a doctor's medical excuse specifying the reason for modification and/or exemption, time frame, and specific types of physical activity the student should avoid. Please ask your doctor to provide a **Modified Participation in Physical Education Physician's Certification Form** (Marshfield Clinic).

PHYSICAL EDUCATION, HEALTH, DRIVERS ED.

AQUATICS (605)..... Credit: 1/2

Gain the knowledge, skills, and confidence to safely participate in a variety of aquatic activities in, on, and around water. Activities are water awareness, stroke development, scuba diving, snorkeling, rescue and survival skills, canoeing-kayaking, water games, dualthon-triathalon training, and physical fitness.

NOTE: An option to take this course for lifeguard certification is available. Please indicate interest on your registration card. Lifeguard certification also includes CPR & first aid training. Lab fee ($41 for the class and $13 for a pocket mask – total of $54)

REQUIRED: One-piece swim suit, t-shirt, shorts, athletic shoes.

***PREREQUISITE**: Sophomore standing, Fit for Life.*

ULTIMATE CHALLENGE (606)..... Credit: 1/2

Experience some of the more contemporary physical activities that are becoming so popular and that offer physical challenge, enjoyment, creative expression, and social interaction. Activities may be but are not limited to skateboarding, BMX biking, in-line skating, fencing, self- defense, hacky sack, bocce ball, juggling, unicycling, stilt walking, horseshoes, water challenges and rock **NOTE:** Course fees may apply for field experiences.

REQUIRED: Appropriate active wear, athletic shoes and protective gear (Helmets and protective pads will be provided.)

***PREREQUISITE**: Sophomore standing, Fit for Life.*

SPORTS CHALLENGE –INDIVIDUAL/DUAL (607).....Credit: 1/2

This course will give you an opportunity to experience many lifetime activities that you can do by yourself or with another person. These activities include: archery, tennis, badminton, swimming, biking, bowling, disc golf, weight training, golf, and climbing.

REQUIRED: Appropriate active wear and athletic/dance shoes to remain in locker.

COURSE FEE: Heart rate monitor strap $5.00, fees may apply.

***PREREQUISITE**: Sophomore standing, Fit for Life.*

MOVEMENT EXPLORATION IN DANCE AND GYMNASTICS (608)..... Credit: 1/2

Cultivate the specific knowledge and skills to participate in a large variety of dance forms and enjoy them with confidence. Explore the cultural roots to numerous dance steps and styles. Units are open to current trends in dance and student interest, but commonly include swing, salsa, cha cha, polka, waltz, freestyle, hip hop, line dance, and mixers. The goal of the course is two-fold, students will participate in safe progressions of basic to advanced skills in each area of gymnastics. Units include: tumbling, floor exercise routines, uneven parallel bars, balance beam, vaulting, partner stunts, and development of personal fitness as it relates to gymnastics and dance.

REQUIRED: Appropriate active wear and athletic shoes to remain in locker, pencil.

COURSE FEE: May apply for field experiences.

***PREREQUISITE**: Sophomore standing, Fit for Life*.

PERSONAL WELLNESS/GET FIT (609).....Credit 1/2

The purpose of the class is to provide a well- rounded exercise program to get "in-shape," and feel good physically and mentally. Current trends in fitness and wellness will be practiced and studied, from step aerobics, kick-boxing, hip hop aerobics, Pilates, yoga, and learn to safely use a wide array of fitness equipment such as: stability balls, medicine balls, foam rollers, steps, boxes, bands, yoga blocks, body bars, and dumbbells. Develop skills and knowledge necessary to make improvements in your personal wellness and fitness levels.

REQUIRED: Daily: shorts, t-shirt, and athletic shoes (to remain at school), one-piece swimsuit.

COURSE FEE: Lab fee ($10.00) includes heart rate monitor strap, activity log book and nutritional sampling, and field experiences.

***PREREQUISITE**: Sophomore standing, Fit for Life.*

PHYSICAL EDUCATION, HEALTH, DRIVERS ED.

BALANCE (611)..... Credit: 1/2

This class is intended to provide an individualized daily plan including exercise, nutrition and stress reduction that can be implemented throughout each day. This class is going to be student- driven, exercise choices are going to be decided and implemented depending on the interest and needs of each student. A log will be used to assist with daily record keeping for both the exercise and eating requirements, based on individualized goals. Current trends in fitness and wellness will be practiced and studied. Students will learn to safely use a wide array of fitness equipment such as stability balls, medicine balls, foam rollers, exercise steps and boxes, bands, yoga blocks, body bars and dumbbells, along with motorized fitness equipment such as treadmills, bikes and elliptical machines. Students will develop the skills and knowledge necessary to improve a balanced and healthy lifestyle. The teacher will guide the student through the program and provide the encouragement needed to meet individual goals and continued improvement.

REQUIRED: Daily: shorts, t-shirt, and athletic shoes (to remain at school), occasionally one-piece swimsuit will be needed.

PREREQUISITE: *Application must be filled out by deadline and approved by staff.*

HEALTHY CHOICES (615)..... Credit: 1/2

This goal of this course is to enhance the physical, intellectual, emotional and social development of all students. Learning opportunities are provided to develop knowledge and to challenge students to use critical thinking, decision making, and problem solving skills to promote and maintain lifelong health and wellness by recognizing potential dangers to health and safety.

NOTE: This course is required for graduation.

PREREQUISITE*: Suggested and preferred for grades 9 & 10.*

DRIVER EDUCATION (621/622)..... Credit: 1/2

Prepare yourself for a lifetime of safe driving with this driver-safety course. Driver condition, highway driving, intersections, emergency maneuvers and defensive driving are just a few of the topics to be covered. The lab portion of this course will include eight hours of simulation, six hours of in-the-car observation and six lessons behind-the-wheel. Behind-the-wheel instruction will take place after school, on weekends and during summer.

COURSE FEE: Cost of behind-the-wheel is $250 with possible increase of no more than $50.

PREREQUISITE*: Sophomore standing*

SCIENCE

BIOLOGY (107)..... Credit: 1

Examine the nature and continuity of life. Investigate the molecules of life, cell structure and function, genetics and biotechnology, and ecology.

NOTE: This is a NCAA approved course. ***PREREQUISITE****: None*.

BIOLOGY Honors (110)..... Credit: 1

Students will examine the characteristics of organisms. Biology Honors emphasizes the development of reading, writing, and analytical skills required in the ever changing field of biology. The course is divided into five units: Unit 1 -- Biochemistry; Unit 2 – Cell Structure and Function; Unit 3 – Genetics; Unit 4 – Evolution; and Unit 5– Ecology. **NOTE:** This is a NCAA approved course

COURSE FEE: $16 course fee applies. (Adjusted annually as Hayden-McNeil notebook fees change.). ***PREREQUISITE****: None.*

ANATOMY & PHYSIOLOGY (113)..... Credit: 1

This course examines the structures and function of the various systems of the human body, as well as examining the causes and cures of human disease. Animal dissections will be used to help us better understand how the human body works. First semester topics include cell specialization; skeletal, muscular, integumentary, and nervous systems. Second semester topics include digestive, respiratory, circulatory, excretory, endocrine, reproductive systems, and heredity.

NOTE: This course is required for Health Career Connections which is application and interview dependent with limited space.

NOTE: This is a NCAA approved course.

PREREQUISITES*: Biology (107) or Biology Honors (110), Chemistry (116) or Chemistry Honors (118) or instructor's consent.*

ANATOMY &PHYSIOLOGY Honors (114)..... Credit: 1

This course deals with the study of cells, tissues, and the various systems of the human body, as well as the causes and cures of human diseases. Animal dissections, model making, and projects will be used to help better understand how the human body works. First semester topics include cell specialization; skeletal, muscular, integumentary, and nervous systems. Second semester topics include digestive, respiratory, circulatory, excretory, endocrine, reproductive systems, and heredity. This course is recommended for those students interested in medicine, nursing, medical technology, or any health care related field.

NOTE: This course is required for Health Career Connections which is application and interview dependent with limited space.

NOTE: This is a NCAA approved course

REQUIREMENTS: There will be 2-3 major tests and one large project per quarter. Expect to work on projects outside of class. Higher-level problem-solving skills will be developed through the use of case studies.

PREREQUISITES*: Biology (107) or Biology Honors (110), Chemistry (116) or Chemistry Honors (118) or instructor's consent*.

CHEMISTRY (116)..... Credit: 1

Study the classification of matter; electron configuration and atomic structure; the periodic classification of elements; chemical bonding; chemical formulas and equations; the mathematics of chemistry; and the physical characteristics and molecular composition of gases, liquids, and solids. Lab Notebook Fee $14; if students elect to tie-dye T-shirts in semester 2, an additional $8 fee is required.

NOTE: Concurrent enrollment in Algebra 2 (207) is recommended.

NOTE: This is a NCAA approved course.

PREREQUISITES*: Either successful completion of Algebra 1 (205) or Advanced Math Applications (202) with a "C" grade or better.*

CHEMISTRY Honors (118)..... Credit: 1

Study the classification of matter; electron configuration and atomic structure; the periodic classification of elements; chemical bonding; chemical formulas and equations; the mathematics of chemistry; kinetic-molecular theory; and the physical characteristics and molecular composition of gases, liquids, and solids. Lab Notebook Fee $14; if students elect to tie-dye T-shirts in semester 2, an additional $8 fee is required.

NOTE: Concurrent enrollment in Algebra 2 (208) is recommended.

NOTE: This is a NCAA approved course.

PREREQUISITES*: Either successful completion of Algebra 1 (205) with a "B" grade or better or Algebra 1 (206) with a "C" grade or better.*

SCIENCE

AP CHEMISTRY PS (119)……........……..................……....................…….. Credit: 1

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. For some students this course enables them to undertake, as freshmen, second-year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. For others the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses. Topics include the structure of matter, kinetic theory of matter, chemical equilibria, chemical kinetics and thermodynamics. Emphasis is on problem solving on paper and in the laboratory. Lab Fee: $13, if student elects to do a tie-dye shirt there is an additional $8 fee or $3 if student provides a shirt.

NOTE: Concurrent enrollment in Pre-Calculus or Calculus is recommended.

NOTE: This is a NCAA approved course.

REQUIREMENTS: This course moves quickly, requires nightly homework, and time outside of the scheduled class to complete labs and ask questions. Some colleges award up to 10 college credits for a "5" on the AP Chemistry exam.

***PREREQUISITES**: Chemistry Honors (118) or Chemistry (116) with instructor's consent, Algebra 2 R (207) or Algebra 2 H (208).*

EARTH & SPACE SCIENCE (120).……...................................……....................……..................................... Credit: 1

This course is laboratory-based science class emphasizing the function of the earth's system. Emphasis is placed on Earth's geologic systems, Earth's composition, and predictability of a dynamic Earth, origin and evolution of the Earth system and universe, and energy in the Earth system. Topics covered in the Meteorology section of the course include the makeup and structure of the atmosphere, factors affecting weather, weather patterns, and seasonal effects on weather. This course also acquaints students with astronomy concepts including basic facts about the Earth, moon, and stars.

NOTE: This is a NCAA approved course**.** ***PREREQUISITES**: None*

EARTH & SPACE SCIENCE H (122).……......................……............……....................……............................... Credit: 1

The honors Earth & Space science course is designed to introduce the Earth sciences to the self- motivated student who is college bound. The Earth science course is designed to interpret and understand the world around you. In order to do so, students will investigate and study the interactions between the four major Earth's spheres including the geosphere, atmosphere, hydrosphere and biosphere in order to explain Earth's formation, processes, history, landscapes, how and why Earth changes over time. Topics to be addressed include, but are not limited to, the scientific method, minerals, rocks, plate tectonics, earthquakes, volcanoes, surface processes, geologic time, meteorology, and astronomy.

Students in the honors Earth & Space science course should expect a higher level of rigor, cognition and quality of work than the standard course. They will become actively involved in classroom and laboratory learning experiences. They will also be involved in exploratory, experimental, and open-ended learning experiences with a faster paced, more in-depth study of material.

Honors Earth science students should expect to use and develop the following skills:

1. problem-seeking and problem-solving,
2. independent inquiry based learning,
3. participation in scholarly and creative processes,
4. reading and understanding scientific material,
5. use of imagination,
6. critical analysis and application,
7. learning to express/defend ideas,
8. becoming a reflective thinker, and
9. becoming an initiator of learning.

To meet, use, and develop the skills required in the Honors Earth & Space science course, students will participate in laboratory exercises, small group activities, web based investigations, class discussions, and both in class and independent projects and research involving reading and writing requiring a greater depth of understanding of Earth Science concepts that require students to proficiently communicate their ideas.

NOTE: This is a 2017-18 Innovative Program Course **NOTE:** This is a NCAA approved course. ***PREREQUISITES**: None*

SCIENCE

PHYSICS (126)..... Credit: 1

Discover the physical laws of nature, including motion, dynamics, energy, waves and modern physics. Also study interactions among science, technology and society. If you are pursuing a liberal arts program in college or a vocational school or nursing program you may find this course helpful. Laboratory Requirement: At least 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry based investigations that provide students with opportunities to apply the science practices.

NOTE: This is a NCAA approved course. ***PREREQUISITE****: Algebra 1 (205/206).*

PHYSICS H (127)..... Credit: 1

Discover the physical laws of nature, including motion, dynamics, energy, waves and sound, light, modern physics, and relativity. Also study interactions among science, technology and society. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills. Also study interactions among science, technology and society. Recommended for college bound students and provides preparation for those intending to take AP Physics. Laboratory Requirement: At least 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry based investigations that provide students with opportunities to apply the science practices.

NOTE: This is a NCAA approved course.

PREREQUISITE*: Completion of or concurrent enrollment in Algebra 1 (205/206) with a B or higher grade.*

AP PHYSICS 1 PS (128)..... Credit: 1

AP Physics 1 is an algebra-based, introductory college-level physics course with a heavy emphasis on writing. Explore topics such as Newtonian mechanics (including rotational motion), work, energy, and power, mechanical waves and sound, and introductory, simple circuits. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills. Students can elect to take the AP Physics 1 Exam for college credit in May (check with your university for college credit you can attain). Laboratory **Requirement**: This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry based investigations that provide students with opportunities to apply the science practices.

NOTE: This is a NCAA approved course.

PREREQUISITES*: Physics R (126) or Physics H (127).*

AP PHYSICS 2 PS (129)..... Credit: 1

AP Physics 2 is an algebra-based, introductory college-level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. Through inquiry- based learning, students will develop scientific critical thinking and reasoning skills. Also study interactions among science, technology and society. Students can elect to take the AP Physics 2 Exam for college credit in May (check with your university for college credit you can attain). Laboratory Requirement: This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry based investigations that provide students with opportunities to apply the science practices.

NOTE: This is a NCAA approved course.

PREREQUISITES: *Any prior physics course or instructor's consent*.

AP PHYSICS C MECHANICS (Calculus Based) PS (130)..... Credit: 1

This course is recommended for students intending to pursue degrees in the physical sciences or engineering. Explore concepts such as kinematics; Newton's laws of motion, work, energy and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation. Learn to apply differential and integral calculus in order to solve problems associated with these concepts. Build your understanding and critical thinking skills through inquiry-based, laboratory investigations that explore these physics concepts. This course ordinarily forms the first part of the college sequence that serves as the foundation in physics for students majoring in the physical sciences or engineering. Strong emphasis is placed on solving a variety of challenging problems, some requiring calculus. Also study interactions among science, technology and society

NOTE: This is a NCAA approved course.

PREREQUISITES*: Any prior physics course or instructor's consent. Completion of/or concurrent enrollment in AP Calculus Honors (221 or 222) is recommended*.

SCIENCE

AP PHYSICS C ELECTRICITY & MAGNETISM (Calculus Based) PS (131)..... Credit: 1

This course is recommended for students intending to pursue degrees in the physical sciences or engineering. Explore concepts such as electrostatics, electric circuits, conductors, capacitors, dielectrics, magnetic fields, and electromagnetism. Learn to apply differential and integral calculus in order to solve problems associated with these concepts. Build your understanding and critical thinking skills through inquiry-based, laboratory investigations that explore these physics concepts. This course ordinarily forms the second part of the college sequence that serves as the foundation in physics for students majoring in the physical sciences or engineering. Methods of calculus are used wherever appropriate in formulating physical principles and in applying them to physical problems. Strong emphasis is placed on solving a variety of challenging problems, some requiring calculus. . Also study interactions among science, technology and society.

NOTE: This is a NCAA approved course.

***PREREQUISITES**: Completion of/or concurrent enrollment in AP Physics C Mechanics PS (130).*

AP BIOLOGY PS (132)..... Credit: 1

AP Biology is designed to be the equivalent of a college introductory biology course taken by biology majors. Upon successful completion of the AP Exam, students may be permitted to register for upper-level university courses where biology is a prerequisite. A college textbook is used; topics are covered in great depth. The course emphasizes the development of reading, writing, and analytical skills required in the ever changing field of biology. The course is divided into four units. Big Idea 1: The process of evolution drives the diversity and unity of life. Big Idea 2: Biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic homeostasis. Big Idea 3: Living systems store, retrieve, transmit, and respond to information essential to life processes. Big Idea 4: Biological systems interact, and these systems and their interactions possess complex properties. **NOTE:** This is a NCAA approved course.

COURSE FEE: $20. ***PREREQUISITES**: Biology Honors (110) and Chemistry Honors (118) strongly recommended, or instructor's consent*

OCEANOLOGY (152)..... Credit: 1/2

Study physical, chemical, geological, and biological aspects of the oceans. Topics include oceanographic instruments, seawater chemistry, ocean sediments, waves, weather and climate, tides and currents, ecosystems, maritime heritage and current issues.

NOTE: This is a NCAA approved course.

***PREREQUISITE**: Sophomore standing*.

OCEANOLOGY Honors (153)..... Credit: 1/2

Study physical, chemical, geological, and biological aspects of the oceans. Topics include oceanographic instruments, seawater chemistry, ocean sediments, waves, weather and climate, tides and currents, ecosystems, maritime heritage and current issues.

NOTE: This is a NCAA approved course.

REQUIREMENTS: Students should possess high level thinking skills, be willing to work a fast pace, possess an interest in all science areas and possess the ability to read at the college level.

***PREREQUISITE**: Sophomore standing.*

AP ENVIRONMENTAL SCIENCE PS (155)..... Credit: 1

Study the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Identify and analyze environmental problems, both natural and human-made and evaluate the relative risks associated with these problems. Examine alternative solutions for resolving and/or preventing them. Investigate interdependence of the Earth's systems, human population dynamics, renewable and non-renewable resources, environmental quality, global changes and their consequences, and environment and society decision making activities. The course focuses on the science practices and includes both laboratory experiments and field investigation. College credit can be earned for successful completion of the AP National exam. Lab notebook fee: $13.

NOTE: This is a NCAA approved course.

REQUIREMENTS: This is a college level course that includes laboratory investigations, field work, essay writing and data analysis.

***PREREQUISITES**: Successful completion of biology and chemistry or instructor approval.*

SCIENCE

PRINCIPLES OF THE BIOMEDICAL SCIENCES H PLTW (157)…….... Credit:1

Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lays the scientific foundation for subsequent courses.

NOTE: This is a NCAA approved course.

COURSE FEE: $15 lab notebook fee.

***PREREQUISITE**: Concurrent enrollment in college prep math and science. This course is designed for 9th or 10th grade students*

HUMAN BODY SYSTEMS H PLTW (158)..... Credit: 1

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries.

NOTE: This is a NCAA approved course.

COURSE FEE: $15 lab notebook fee.

***PREREQUISITES**: Principles of Biomedical Sciences PLTW (157). Concurrent enrollment in college prep math and science*. This course is designed for 10th, 11th or 12th grade students.

MEDICAL INTERVENTIONS H PLTW(160)……..Credit: 1

Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

NOTE: This is a NCAA approved course.

COURSE FEE: $15 lab notebook fee.

***PREREQUISITES**: Principles of Biomedical Sciences PLTW (157) and Human Body Systems PLTW (158). Concurrent enrollment in college prep math and science and Junior standing.*

BIOMEDICAL INNOVATION H PLTW (161)..... Credit: 1

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.

NOTE: This is a NCAA approved course.

COURSE FEE: $15, Lab notebook fee.

***PREREQUISITES**: Completion of or concurrent enrollment in Medical Interventions PLTW (160). Senior standing.*

SOCIAL SCIENCE

Three and one half (3½) credits are required for graduation and must contain the following:

Freshman: (1 credit required)

Student **must** choose one of the following year- long courses.

1. U.S. History & American Government Regular OR Foundations
2. AP History of American Government & Politics PS

Sophomore: (1 credit required)

Student **must** choose one of the following year- long courses.

1. The American Republic Regular or Foundations
2. AP United States History PS

Junior: (1 credit required)

Student **must** choose one of the following year- long courses.

1. World Studies Regular or Essentials
2. AP European History PS
3. AP World History PS

Senior: (½ credit required if did not take as a freshman US History & American Government Regular or AP History of American Government and Politics PS)

Student **must** choose one of the following courses.

1. CR History of American Government
2. AP History of Government and Politics, U.S. PS

Electives:

1. Crime, Justice & Law Psychology (½ credit)
2. AP Psychology PS (½ credit)
3. AP European History PS (1 credit)
4. AP History of Government & Politics, U.S. PS (½ credit)
5. AP Economics PS (1 credit)
6. AP United States History PS (1 credit) AP World History PS (1 credit)
7. AP Comparative Government PS (½ credit)

SOCIAL SCIENCE

ENGLISH I ESSENTIALS R & US HISTORY &
AMERICAN GOVERNMENT FOUNDATIONS R (400)..... Credit: 2

Meeting deadlines and demonstrating personal responsibility are critical expectations, as students develop life-long qualities in becoming successful students.

Students will study short stories, the novel, nonfiction, and poetry, utilizing note-taking strategies to develop skills to track literary elements used across all units of study, for vocabulary enrichment, and to infer the main idea, author's purpose, and audience. Throughout this course of study, students will see a connection between the literature we study and what they learn in their social studies class, as the literature will reflect the times.

Using the writing process, students will produce creative and expository writing. Additionally, students will conduct independent formal and informal research to produce unit projects which will be presented orally, demonstrating sound public speaking skills.

Students in this course will be mindful of their ultimate goal of building reading skills and improving reading levels to eventually leave the essentials track.

Explore the foundations of US government through close reading and guided writings. This course is taught in conjunction with English I Essentials and focuses on increasing core area skills of reading, writing and thinking in students who struggle academically. Placement in this course is made using multiple measures of student achievement. The goal of this combined course is to move students diagonally to the regular level English and Social Studies courses.

***PREREQUISITE**: Teacher/guidance recommendation.*

U.S. HISTORY & AMERICAN GOVERNMENT (301)..... Credit: 1

Expand your understanding of U.S. History through study of the development of American colonies, the Revolutionary War, the United States Constitution, the Early Federal Period, as well as, the establishment and development of the American Government to the modern period.

NOTE: This is a NCAA approved course**.**

***PREREQUISITE**: None*

AP HISTORY OF AMERICAN GOVERNMENT & POLITICS PS (302)..... Credit: 1

Expect an in-depth analysis of the U.S. Constitution. Research and analyze the impact of this living document on today's society. Become active participants in the study of political beliefs, political behaviors, political parties, interest groups, mass media, and institutions of national government, civil liberties, civil rights and public policy.

NOTE: In spring you can take the AP Government and Politics test and earn college credit.

NOTE: This is a NCAA approved course.

REQUIREMENTS: Considerable use of research skills, critical thinking skills, analytical writing, public speaking skills, and integrating technology. This is a college level course.

***PREREQUISITE**: Teacher recommendation and a grade average of a B or higher in 8$^{th\ grade}$ Global Studies.*

THE AMERICAN REPUBLIC & ENGLISH II ESSENTIALS (405)..... Credit: 1

Use primary sources and guided writing to understand how the US has evolved through political, social, intellectual and economic change to become one of the most powerful nations in the world. This course is taught in conjunction with English II Essentials and focuses on increasing core area skills of reading, writing and thinking in students who struggle academically. Placement in this course is made using multiple measures of student achievement. The goal of this combined course is to move students diagonally to the regular level English and Social Studies courses.

***PREREQUISITE**: Teacher/guidance recommendation.*

THE AMERICAN REPUBLIC (306)..... Credit: 1

Follow United States emergence as a world power by analyzing civil war, Reconstruction, Industrialization, American imperialism, the Progressive Era, American involvement in World War I, the prosperity of the 1920's, the Great Depression of the 1930's, the Roosevelt New Deal, involvement in World War II, domestic and foreign challenges of the post-war world, America's involvement in Vietnam and America from the 1960's to the 21st century.

NOTE: This is a NCAA approved course.

***PREREQUISITE**: U.S. History & American Government (301) or AP History of American Government & Politics H (302).*

SOCIAL SCIENCE

AP UNITED STATES HISTORY PS (336)..... Credit: 1

AP US History will cover United States history from colonization to present following college standards of writing, reading and critical thinking. This course will satisfy the sophomore United States History requirement for qualifying students. Junior and senior students may take this course as an elective sequel to the traditional United States history courses.

NOTE: Take on the challenge of a College Board AP curriculum and possibly earn credit for college by taking the AP test in spring.

NOTE: This is a NCAA approved course.

REQUIREMENTS: Considerable advanced writing, critical thinking, and primary document analysis. This is a college-level course.

***PREREQUISITES**: Sophomore standing. Sophomore students must satisfactorily meet the required academic profile. Junior and senior students must have averaged at least a "B" in Social Science course work.*

WORLD STUDIES (309) & ENGLISH III ESSENTIALS (410)..... Credit: 1

Understand how western society originated, has evolved, and continues to be a model for politics, economics, and social structures in the world. The course starts in the Middle Ages and continues to the early 20th Century. The second semester transitions into a modern analysis of numerous European, African, Middle Eastern, South American, and Asian countries. This semester focuses on the strengths and weaknesses of these areas and tries to examine how certain areas of the world are rapidly progressing to global dominance while others remain 2nd and 3rd world countries. This course is taught in conjunction with English III Essentials and focuses on increasing core area skills of reading, writing and thinking in students who struggle academically. Placement in this course is made using multiple measures of student achievement. The goal of this combined course is to move students diagonally to the regular level English and Social Studies courses.

***PREREQUISITE**: Teacher/guidance recommendation. Junior standing.*

WORLD STUDIES (310)..... Credit: 1

Understand how western society originated, has evolved, and continues to be a model for politics, economics, and social structures in the world. The course starts in the Middle Ages and continues to the early 20th Century. The second semester transitions into a modern analysis of numerous European, African, Middle Eastern, South American, and Asian countries. This semester focuses on the strengths and weaknesses of these areas and tries to examine how certain areas of the world are rapidly progressing to global dominance while others remain 2nd and 3rd world countries.

NOTE: This is a NCAA approved course.

***PREREQUISITE**: Junior standing.*

AP WORLD HISTORY PS (338)..... Credit: 1

Raise the academic bar with the challenges of a rigorous and fast paced survey of world history. This class is an excellent counterpart to AP European History and will help students achieve a broad perspective of western and non- western cultures.

NOTE: In spring you can take the AP World History test and earn up to six college credits.

NOTE: Students considering attending UW-LaCrosse: This course satisfies the World Cultures requirement needed for a bachelor's degree. Students must earn a 3, 4 or 5 on the national exam.

NOTE: This is a NCAA approved course**.**

REQUIREMENTS: Considerable use of research skills, critical thinking skills, analytical writing, public speaking skills, and integrating technology. This is a college level course.

***PREREQUISITES**: Junior standing.*

AP EUROPEAN HISTORY PS (324)..... Credit: 1

Raise the academic bar with the challenges of a rigorous and fast paced survey of European history. AP European history will cover Europe's journey from the Renaissance to modern day (1450-present). All students, prior AP students and new comers to the AP program, are welcome to join the class.

NOTE: In spring you can take the AP European test and earn up to six college credits.

NOTE: This is a NCAA approved course.

REQUIREMENTS: Considerable use of research skills, critical thinking skills, analytical writing, public speaking skills, and integrating technology. This is a college level course.

***PREREQUISITES**: Junior standing, instructor's consent.*

SOCIAL SCIENCE

CRIME, JUSTICE & LAW (328)..... Credit:1/2

Criminal Justice is a survey of the justice system that focuses on the rights of citizens, law enforcement, court proceedings, probation and parole, pretrial services, the prison system and practical law. Issues of crime and justice dominate American culture, from the halls of Congress, to prime-time television, to what happens on the streets of Marshfield. The intent of this course is to help individual students comprehend how the legal system operates locally and nationally. Students will examine careers in all facets of justice. Meets senior social science requirements for graduation.

NOTE: This is a NCAA approved course.

***PREREQUISITE**: Junior standing*

AP HISTORY OF GOVERNMENT AND POLITICS, U.S. PS (329)..... Credit: 1/2

Expect an in-depth analysis of the U.S. Constitution. Research and analyze the impact of this living document on today's society. Become active participants in the study of political beliefs, political behaviors, political parties, interest groups, mass media, and institutions of national government, civil liberties, civil rights and public policy.

NOTE: Take on the challenge of a College Board AP curriculum and possibly earn credit for college by taking the AP test in spring.

NOTE: This is a NCAA approved course.

REQUIREMENTS: Considerable independent learning with an emphasis on the following: Analytical reading, writing, thinking and understanding of current political events. Students are expected to be active in the classroom discussions. This is a college level course.

***PREREQUISITES**: Senior standing or instructor's consent.*

PSYCHOLOGY (315)..... Credit: 1/2

Find out how dogs, bells, inkblots, electric shocks and more play a role in understanding the human experience. Explore the world of the mind through a thoughtful investigation into the history, theory and application of psychology.

Emphasis: Critical thinking skills, critical writing, integrated technology, higher level reading skills.

NOTE: This is a NCAA approved course.

***PREREQUISITE**: Junior standing.*

AP PSYCHOLOGY PS (317)..... Credit: 1/2

Take part in a demanding, fast-paced survey of the many facets of the human experience. Through the AP Psychology experience students have the opportunity to prepare for the AP Psychology exam in the spring.

NOTE: This is a NCAA approved course.

REQUIREMENTS: Considerable use of research skills, critical thinking skills, analytical writing, public speaking skills and integrating technology. This is a college level course.

***PREREQUISITES**: Junior standing or instructor's consent.*

AP ECONOMICS PS (337)..... Credit: 1

Expand your understanding of the complexities of the American economy in this challenging college level course. Examine the underlying principles of micro and macro-economics, collaborate with business leaders to examine local issues, and work toward possible college credit.

NOTE: This is a 2017-18 Innovative Program Course

NOTE: This course fulfills the senior Consumer Education requirement for graduation in 2017-18.

NOTE: This is a NCAA approved course.

REQUIREMENTS: Considerable application of economic theory to a host of contrived and real-world scenarios, conducting independent research, problem solving using economic methodologies and theories, and the ability to evaluate the validity of conflicting schools of thought is emphasized. This is a college level course.

***PREREQUISITES**: Junior standing.*

SOCIAL SCIENCE

AP COMPARATIVE GOVERNMENT PS (340)..... Credit: 1/2

AP Comparative Government sets a historic foundation for the AP 6 Countries of: United Kingdom, Mexico, Russia, China, Nigeria, and Iran. The majority of the course analyzes modern trends of power, authority, sovereignty, legitimacy and institutions of the AP 6 countries. Critical reading, analytical writing, media analysis, and construction of governmental models are key skills developed in preparation for the AP National Exam.

NOTE: This is a NCAA approved course.

REQUIREMENT: This is a college level course requiring reliable at-home computer technology and internet access.

***PREREQUISITE**: Junior standing and a "B" average in previous social science course.*

AP HUMAN GEOGRAPHY/GLOBALIZATION PS (858)..... Credit: 1

This year-long course provides students with an opportunity to expand their knowledge of our world from a broad, geographical perspective. Students will realize and appreciate the complexities of globalization and think critically about what they see, read, and hear about their world through critical analysis of culture, society, and space. Students are challenged to think geographically across scale and across a wide range of geographical phenomena and global issues. Units of study include population, migration, culture, language, religion, ethnicity, political geography, economic development, industry, agriculture, and urban geography.

NOTE: Candidates for this class must be independent learners, familiar with the online learning environment, conscientious about due dates, and pro-active toward problem solving. Learning targets and content requirements are the same as traditional face-to-face class, but due to the 24/7 online model a driven AP student may be able to complete course requirements in less academic calendar time.

REQUIREMENTS: This college-level course requires considerable reading, writing, critical thinking and application of concepts and theories, integrating technology on a daily basis.

***PREREQUISITE:** None.*

SPECIAL EDUCATION

REGISTRATION: Registration for special education classes is based on the Individual Education Plan (IEP). In most cases, coursework relates to the general curriculum and aligns with the Wisconsin Model Academic Standards. Students who cannot meet prerequisite skills required in the general curriculum participate in a Functional Life skills curriculum to the extent determined by the IEP Team. This IEP Team shall determine on an individual basis which coursework is appropriate and grants credits as appropriate

LIVING FOR TOMORROW FOUNDATION (651)..... Credit: Per IEP

Topics covered include: independent living skills, career planning, recreation, housing, adult service agencies, legal issues, medical services, financial services, insurance, and self-advocacy. This class stresses the thinking skills and social/emotional coping skills needed for successful independent adult living. Students will transition into the adult community to practice their learned skills.

ENGLISH FOUNDATION (652)..... Credit: Per IEP

Develop and maintain basic skills in the area of communication arts related to independent living and employability. Students will learn functional life/career reading, spelling, writing, listening, self-presentation, and self-advocacy/assertiveness skills.

LIFE MATH FOUNDATION (654).....Credit: Per IEP

Learn and maintain basic functional career and consumer mathematics as it relates to independent living in the community, daily living and employment and leisure. Units covered include money skills, time management, banking, budgeting, purchasing, home management costs, and calculator skills.

SCIENCE FOUNDATION (656)..... Credit: Per IEP

Emphasize practical applications of science to an ever-increasing technological society. Students learn the ways in which science and technology influence their daily lives and future careers. The basic concepts of physical science, space, earth science and life science are investigated.

TRANSITION TO EMPLOYMENT FOUNDATION (661).....Credit: Per IEP

Prepare for the working world by developing work habits and attitudes, social skills, and job seeking and securing skills. The course consists of two weeks of school- to-work instruction in the classroom, and seven weeks, on- the-job training at a place of employment each quarter. One day per week is used for self-evaluation and skill development. This class meets two periods each day with approximately one hour on-the-job training. Those students working with DVR may use this time to complete job trails during the school year.

***PREREQUISITE**: Senior standing per IEP.*

INDEPENDENT COMMUNITY- BASED VOCATIONAL TRAINING PROGRAM FOUNDATION (662)..... Credit: Per IEP

Students are employed a minimum of four hours per week at a job in the community. Students are encouraged to secure their own jobs with assistance from their case manager, if necessary. The employer completes quarterly evaluations. Weekly meetings are required as an instruction component.

CONFLICT MANAGEMENT FOUNDATION (668).....Credit: Per IEP

Explore self-esteem issues, anger management, values clarification, errors in thinking and using the seven deadly habits. Story characters are analyzed for their ability to make decisions and solve problems using critical thinking skills. Most assignments are completed in class and include small writing assignments, oral and silent reading, along with class discussion.

PRE-VOCATIONAL WORKSKILLS (665)..... Credit: Per IEP

Students develop academic and work skills to prepare them for future jobs. Students enhance their training with hands-on pre-vocational tasks.

***PREREQUISITE**: Instructor's consent.*

COLLEGE & CAREER READY (683)..... Credit: 1

Students will focus on gaining skills to help them become more prepared for post-secondary schooling and careers. Areas of emphasis will include, positive communication skills, independent work skills, career interests, and acquisition of transition skills needed for future success.

***PREREQUISITE**: Must be enrolled in a Support Collaborative CRC through an IEP*

SPECIAL EDUCATION

REGISTRATION: Registration for special education classes is based on the Individual Education Plan (IEP). In most cases, coursework relates to the general curriculum and aligns with the Wisconsin Model Academic Standards. Students who cannot meet prerequisite skills required in the general curriculum participate in a Functional Life skills curriculum to the extent determined by the IEP Team. This IEP Team shall determine on an individual basis which coursework is appropriate and grants credits as appropriate

COOPERATIVE ART (691)..... Credit: 1/2

Students will work with experience based learning. Creating watercolors, tempera paintings, crayon drawings, marker drawings, construction paper sculpture, foam sculptures, wood projects, clay and more. Movement, visualization techniques, are also a part of this class. Emphasis is on personal and group development as the class is varied for the physical, social, and developmental needs of and for the students.

NOTE: This is a 2017-18 Innovative Program Course NOTE: Course may be retaken for credit.

REQUIREMENT: Student must have an IEP**.**

PREREQUISITE*: None*

UNDERSTANDING TEXT (685)..... Credit: 1

Students will focus on increasing reading fluency and comprehension skills, building vocabulary, and utilizing reading strategies. Curriculum will be delivered through whole group, small group, and individualized methods. Course content will include readings from fiction and nonfiction sources, including novels, textbooks, technical sources, periodicals, etc. This course is designed to enhance the students' success in reading more complex passages with an increased level of comprehension and confidence, to better prepare them for the ACT Reading and/or the Accuplacer exam as they graduate and pursue their goals at a postsecondary setting. This is a reading class and does not count as an English credit, but it does count as 1 elective credit towards graduation.

REQUIREMENT: Student must have an IEP

PREREQUISITE*: Instructor's Consent*

COMMUNITY TRANSTION PROGRAM (COMM)..... Credit: 0

Students in this program have completed 25 credits or 4 years of participation towards graduation and will apply life skills to the community. Students will participate in activities related to social skills, independent living skills, entrepreneur programs, arts and crafts, transition planning, volunteering, pre-vocational skills and work experiences, and recreational/leisure activities.

PREREQUISITE*: Instructor's consent, per IEP*

PROJECT SEARCH (PROJ)..... Credit: 0

Project SEARCH is a vocational training program for students interested in seeking a career path after high school. This program is for any student with any disability, between the ages of 18-24. This is an alternative high school-to-work transition program for students seeking more training in the areas of vocational, social communication, and living skills. This unique opportunity provides a combination of classroom and 3 - 10 week work experiences, while being completely immersed in an employment setting at the hospital and local businesses. The ultimate goal is to become employed in a career of your choice at the completion of Project SEARCH.

PREREQUISITE*: Students must complete all graduation credit requirements and submit an application to the Project SEARCH Instructor. The Project SEARCH committee will interview and select candidates. Project SEARCH instructor's consent is required. If accepted into the program, there will be additional requirements to fulfill for the hospital.*

HEALTH CAREER CONNECTIONS – Pre-Project SEARCH (HECON)..... Credit: 3

Health Career Connections offers instruction and job shadows designed to familiarize students with the various careers in the medical profession and much more. Students will learn skills necessary for their career pathways, in addition to working with others, legal and ethical responsibilities, and cultural considerations in the health care industry, problem solving, decision making, accepting personal responsibility, and self-management. This course is located at the hospital. Interested students will have an opportunity to prepare for Project SEARCH. However, this is not a requirement to the Project SEARCH program.

NOTE: To apply for Health Career Connections you must receive instructor approval.

PREREQUISITES*: Senior Standing and Instructor Approval. Students will need to complete the requirements for the hospital. Students will be responsible to coordinate transportation with their teacher.*

TECHNOLOGY EDUCATION

PROJECT LEAD THE WAY (PLTW) is a national pre-engineering program established to help schools give students the knowledge they need to excel in high-tech fields. Studies of PLTW's curriculum have proven that PLTW students become the kind of prepared, competent, high-tech employees U.S. industry needs to stay competitive in the global market. With its strong partnership concept, PLTW leverages the collective knowledge and efforts of secondary schools, colleges and universities, and industry to give students rigorous, relevant, reality-based knowledge to better prepare them for college. Furthermore, the research shows, and continues to confirm, that students introduced to engineering principles, concepts, and real-world problems in high school are better prepared for college engineering programs – and more likely to be successful. Introduction at the high school level will allow students, while still in school, to determine if engineering is the career they desire. PLTW is a four-year sequence of courses which, when combined with college preparatory mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college. Classes can be taken in sequence over four years or taken as schedules allow. PLTW is a hands-on, project based approach to learning that better prepares students for the rigors of college. The pre-engineering program incorporates math, science, English, and technology skills needed for success. For additional information visit the PLTW website: www.pltw.org.

INTRODUCTION TO ENGINEERING DESIGN Honors (PLTW-IED) (911)..... Credit: 1

In this course, students use 3D solid modeling design software to help them design solutions to solve proposed problems. Students will learn how to document their work and communicate solutions to peers and members of the professional community. The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation.

COURSE FEE: $10

***PREREQUISITE**: Concurrent enrollment in Algebra (203/204) or Algebra (205). Open to grades 9, 10 & 11 only.*

NOTE **NEW COURSE UNDER REVIEW**

ES PRINCIPLES OF ENGINEERING Honors (PLTW-POE) (912)..... Credit: 1

This survey course of engineering exposes students to some of the major concepts they'll encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high-tech careers and to develop skills and understanding of course concepts. Students employ engineering and scientific concepts in the solution of engineering design problems. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students also learn how to document their work and communicate their solutions to peers and members of the professional community. This course is designed for 10th or 11th grade students.

COURSE FEE: $10

***PREREQUISITE**: Algebra (203/204) or Algebra (205). Open to grades 10 - 12 only.*

NOTE **NEW COURSE UNDER REVIEW**

EM DIGITAL ELECTRONICS Honors (PLTW-DE) (913)..... Credit: 1

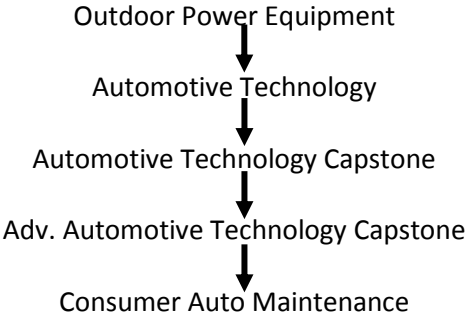
The major focus of this course is completing long-term projects that involve the development of property sites. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of a property. The course provides teachers and students freedom to develop the property as a simulation or to students to model the experiences that civil engineers and architects face. Students work in teams, exploring hands-on activities and projects to learn the characteristics of civil engineering and architecture. In addition, students use 3D design software to help them design solutions to solve major course projects. Students learn about documenting their project, solving problems, and communicating their solutions to their peers and members of the professional community of civil engineering and architecture.

COURSE FEE: $10

***PREREQUISITE**: Algebra (203/204) or Algebra (205). Open to grades 10 - 12 only.*

TECHNOLOGY EDUCATION:
AUTOMOTIVE TECHNOLOGY

TRANSPORTATION COURSE SEQUENCE



OUTDOOR POWER EQUIPMENT (953)..... Credit: 1

Outdoor Power Equipment is a laboratory-based course. During the first semester, the students will disassemble and assemble a school owned small gasoline engine and be introduced to some basic electricity. During the second semester, students will learn the theory, operation, and proper maintenance procedures of outdoor power equipment by performing maintenance on various outdoor power equipment products of their own.

NOTE: Priority given to grades 9th and 10th grade students. If class does not fill, 11th and 12th grade students may take class.

COURSE FEE: Lab Fee: $5.00

***PREREQUISITE**: None.*

AUTOMOTIVE TECHNOLOGY (956)..... Credit: 1

Automotive Technology is a laboratory based course designed to introduce you to automotive maintenance, repair, and beginning diagnosing. The first semester will include automotive maintenance, basic systems repair, online service manuals, cooling, starting, and charging systems. During the second semester, the student will learn about fuel, ignition, brake, steering, and suspension systems and be introduced to basic scan tool operation. **Students will be encouraged to prepare for the ASE (Automotive Service Excellence) exams**.

NOTE: Students who plan to take Automotive Technology should NOT take Consumer Auto Maintenance.

COURSE FEE: Lab Fee: $10.00 ***PREREQUISITE**: Sophomore standing, Outdoor Power Equipment (953), or Small Engine Tech Repair (956), or Auto ABC's (959), or instructor's consent.*

MID-STATE TECHNICAL COLLEGE AUTOMOTIVE TECHNOLOGY CAPSTONE (962)..... Credit: 2

During this laboratory-based capstone course, students will experience what it takes to run an automotive business. This class will be run as a practicum, where students hold different positions within an automotive business. Students will work on soft skills required to work in many technical areas, while at the same time, gain a more in-depth understanding of the automobile system theories of engine performance, transmissions, brakes, steering, suspension, and HVAC by completing live work on vehicles. **Students are strongly encouraged to apply for Youth Apprenticeship. Students will be encouraged to prepare for the ASE (Automotive Service Excellence) exams**.

COURSE FEE: Lab Fee: $10.00 ***PREREQUISITES**: Junior standing, Automotive Technology (956) or Advanced Automotives (962), or instructor's consent.*

ADVANCED AUTOMOTIVE TECHNOLOGY CAPSTONE (965)..... Credit: 2

This course is an extension of the Automotive Technology Capstone course, designed as a career based course. Students will gain valuable leadership skills, be a team leader within the automotive business, and mentor the Automotive Technology Capstone students. Students will perform advanced level diagnosis and repair of automobiles, while at the same time create a marketable pathway by developing a resume, portfolio, completing a job shadow, and completing ASE (Automotive Service Excellence) Exams. Students are strongly encouraged to apply for Youth Apprenticeship.

COURSE FEE: Lab Fee: $15.00 ***PREREQUISITES**: Senior standing, Automotive Technology (956) or Advanced Automotives (962) or instructor's consent*

TECHNOLOGY EDUCATION:
AUTOMOTIVE TECHNOLOGY

CONSUMER AUTO MAINTENANCE (959)..... Credit: 1/2

Do you or will you drive a vehicle?! Consumer Auto Maintenance is a consumer level laboratory-based course designed for males and females without any mechanical experience or who have never taken an automotive class before. Not only does the course help you become a better consumer, but you will also learn about various vehicle emergencies, buying and selling vehicles, and will be able to perform basic maintenance on your own vehicle which will save you money in the future.

NOTE: Students who plan to take Automotive Technology should NOT take this course.

COURSE FEE: Lab Fee: $5.00

***PREREQUISITE**: Sophomore standing, preferably with a driver's license.*

TECHNOLOGY EDUCATION:
CONSTRUCTION TECHNOLOGY

ARCHITECTURE, CONSTRUCTION AND ENGINEERING ACADEMY

The Architecture, Construction and Engineering Academy is a multi-year educational program that integrates academic advising with technical instruction in construction related fields, identifying the relevance of one to the other. Applications for this academy should be completed during registration of your freshman and sophomore year.

Questions about this program should be directed to Mr. Aaron Scheuer at the high school.

***PREREQUISITE**: Sophomore standing and Construction II (942).*

CONSTRUCTION TECHNOLOGY I (940)..... Credit: 1/2

Explore the fundamentals of wood products and the millwork industry with a hands-on approach. Student projects are designed to teach proper use of the table saw, jointer, planer, and band saw with an assortment of power hand tools. Expect to follow lab safety procedures.

COURSE FEE: Lab fee: $35.00.

***PREREQUISITE**: Open to grades 9 & 10 only.*

CONSTRUCTION TECHNOLOGY II (942)..... Credit: 1

Be introduced to the use of modern materials and processes associated with cabinet-making and millwork with a hands-on approach. Areas include: hand and power tool processing, wood machining, wood finishing and introduction into carpentry. Expect to follow lab safety procedures.

COURSE FEE: Lab fee: $40.00.

***PREREQUISITE**: Open to grades 10, 11 and 12.*

ADVANCED CONSTRUCTION TECHNOLOGY (945)..... Credit: 1

This course will provide students the opportunity to explore the construction trades in a classroom and lab environment. Students will develop a variety of technical skills associated with residential construction. Areas include safety procedures, building layout, rough construction, finish carpentry, masonry, electrical wiring, and cabinet making and millwork. This course is part of the Architecture, Construction, and Engineering Academy, but students may take course without signing up for the Academy.

COURSE FEE: Lab fee: $40.00.

***PREREQUISITE**: Construction Technology II (942) or instructor's consent.*

CONSTRUCTION TECHNOLOGY CAPSTONE (947)..... Credit: 2

This course is a continuation of advanced construction. The content learned in advanced construction will be the foundation for Construction Capstone. Students will continue to acquire the knowledge and skills needed for the construction trades and related occupations. Students must be accepted into the Architecture, Construction, and Engineering Academy, enrollment is limited. Acceptance into the program will be by application. Expect to follow lab safety procedures.

COURSE FEE: Lab fee: $40.00 plus project material fee.

***PREREQUISITES**: Senior standing, Capstone Application, Advanced Construction Technology (945)*

BUILDING TECHNOLOGY PRE-APPRENTICESHIP (948)..... Credit: 2

Students with proper prerequisites will be employed in the construction industry of their choice (construction, electrical, plumbing, masonry, etc.) during the summer of their junior-senior year. Students are expected to remain with the employer the entire summer and will be evaluated by both the instructor and work supervisor. . See Mr. Scheuer in Room 86 for more information.

***PREREQUISITES**: Senior standing and instructor's consent*.

TECHNOLOGY EDUCATION: ELECTRICITY, ELECTRONICS & NETWORKING TECHNOLOGY

TC ELECTRICITY & ELECTRONICS PS (920)..... Credit: 1/2

Learn the fundamentals of electrical and electronic systems and components in order to build and troubleshoot working circuits and devices. Examples of activities include building electromagnets, household wiring, electric motors, circuit boards, robots, two-way radios, soldering joints, and basic computer hardware.

NOTE: Students that successfully complete this course can earn Transcripted Credit from Mid-State Technical College for Introduction to Electronics #10605108, 2 credits

COURSE FEE: Lab fee: $10.00

***PREREQUISITE**: None*.

TC COMPUTER HARDWARE SYSTEMS PS (926)..... Credit: 1

Specialize in microprocessor and computer technology. Learn how modern computer systems work, as well as troubleshooting and upgrades for RAM, CPU's, video and expansion cards, storage devices and more. Hands-on activities include PC component installation and troubleshooting as well as complete construction of computer systems. Operating systems and basic networking are also covered in this course. This course follows guidelines established by Cisco Networking Academy and may assist you in obtaining an A+ certification through CompTIA. Complete SkillsUSA activities and be strongly encouraged to be a member. For more information see www.netacad.com.

NOTE: Students that successfully complete this course can earn Transcripted Credit from Mid-State Technical College for Networking Fundamentals #10150101, 3 credits

***PREREQUISITE**: Sophomore standing*.

●❖COMPUTER NETWORKING (927/928).....Credit: 1 credit/year

Develop an understanding of computer networking concepts including network design, hardware wiring systems, and IP addressing. Receive hands-on training in the assembly and configuration of networking components. Emphasis will be placed on the basic operation of routers, routing protocols and switching. This course follows guidelines established by Cisco Networking Academy and may assist you in obtaining a CCNA (Certified Cisco Networking Associate) certification. For more information see www.netacad.com.

NOTE: First year students register for Computer Networking (927). Second year students register for Computer Networking (928).

***PREREQUISITE**: Junior standing*.

DIGITAL PUBLICATIONS (929).....Credit: 1/2

Students will develop skills in layout and design using a variety of software programs including Adobe Creative Suite software and use tools, equipment and processes to develop visual and graphic images that combine text and pictures. Project-based activities include publication layout-brochures, newsletters, vinyl graphic design and creation, calendar design, and photography.

COURSE FEE: Lab fee: $10.

***PREREQUISITE**: None*.

● *= Seniors taking this course will require additional course work at the post-secondary level to obtain certification.*
❖ *= Juniors enrolling in this course may be able to complete certification their senior year.*

TECHNOLOGY EDUCATION:
METAL TECHNOLOGY

INTRO TO METAL TECHNOLOGY (930)..... Credit: 1/2

This semester-long exploratory class introduces students to safely working with metal. Students learn basic print reading and *fabrication skills needed to build a strong foundation in Metal Tech.* **COURSE FEE:** *Lab fee: $20.00.* ***PREREQUISITE****: Recommended to Grades 9 and 10 only.*

INNOVATIVE FABRICATION (938)..... Credit: 1/2

Art and Tech students will be challenged to find creative solutions to assigned projects. Art and metalworking will be combined to create work that requires technical expertise with inventiveness. Students will create functional and aesthetic objects using techniques ranging from found object assemblage to CNC design. If you are creative and interested in using ferrous metal or if you have interest in metal tech you are invited to this cross curricular experience. This class is open to students in grades 10-12 with NO prerequisites. **NOTE:** This is a 2017-18 Innovative Program Course **NOTE:** Students will chose whether this class will count as an art course or a technology education course on their transcripts after the course has begun **COURSE FEE:** Lab fee: $20 ***PREREQUISITE****: Sophomore standing*.

TC METAL TECHNOLOGY 1 PS (931)..... Credit: 1

Metal I is designed to expand students' knowledge in the broad area of metal working and other manufacturing processes. Students will be assigned several hands on assignments that are geared to increasing ones understanding in each of the major areas of metalworking; sheet metal fabrication, machining, welding, cutting and forming. Lectures and labs will make up the class. By successfully completing this course, students can also receive one credit through Mid-State Technical College.

NOTE: Students that successfully complete this course can earn Transcripted Credit from Mid-State Technical College for Introduction to Welding #10442100, 3 credits **COURSE FEE:** Lab fee: $40.00. ***PREREQUISITE****: Sophomore standing.*

TC METAL TECHNOLOGY 1 2.0 PS (932)..... Credit: 1

This class gives students with minimal or no welding experience an opportunity to learn metalworking processes in a controlled and less intimidating setting. This class will build confidence in the students and expose them to high tech, high demand and highly paid careers. Metal Tech I is designed to expand students' knowledge in the broad area of metal working and other manufacturing processes. Students will be assigned several hands on assignments that are geared to increasing ones understanding in each of the major areas of metalworking; sheet metal fabrication, machining, welding, cutting and forming. Lectures and labs will make up the class. By successfully completing this course, students can also receive one credit through Mid-State Technical College. **NOTE:** Students that successfully complete this course can earn Transcripted Credit from Mid-State Technical College for Introduction to Welding #10442100, 3 credits **COURSE FEE:** Lab fee: $40.00. ***PREREQUISITE****: Sophomore standing.*

TC METAL TECHNOLOGY 2 PS (933)..... Credit: 1

Metal Technology 2 is designed to further students' knowledge in all areas of metal working and other manufacturing processes. Students will be assigned several hands on assignments to build a strong understanding in each of the major areas of metalworking; sheet metal fabrication, machining, welding, cutting and forming. Lectures and labs will make up the class. By successfully completing this course, students can also receive up to three credits through Mid-State Technical College.

NOTE: Students that successfully complete this course can earn Transcripted Credit from Mid-State Technical College for Metal Fabrication #10462116, 3 credits **COURSE FEE:** Lab fee: $40.00 ***PREREQUISITE****: TC Metal Technology 1 PS (931) or TC Metal Technology 1 PS (932).*

TC METAL TECHNOLOGY Capstone PS (936)..... Credit: 2

Metal Capstone is a career based class. It is designed to focus a student towards career goals and equip them with the knowledge and resources required to pursue a career in the manufacturing industry. Several hands-on, minds-on projects will be required to deepen their understanding in all areas of Manufacturing. Students will select a career pathway and complete all of the specific requirements; including, (but not limited to), Resume, Portfolio, Job Shadow, Demonstration, Project Plan Sheet, Advanced Projects with documentation and Reflection. Lectures and labs will make up the class. By successfully completing this course, students can also receive up to three credits through Mid-State Technical College. **NOTE:** Students that successfully complete this course can earn Transcripted Credit from Mid-State Technical College for Metals & Machining #10462114, 3 credits

COURSE FEE: Lab fee: $40.00. ***PREREQUISITES****: Senior standing, Metal Technology 2 (933) or instructor's consent*.

WORLD LANGUAGES: FRENCH

FRENCH I (500)..... Credit: 1

Discover the French language and the cultures of France and other French-speaking countries around the world! Speak and listen to French while watching movies, listening to French music and playing games. Develop reading, writing and speaking skills. Learn about French schools, leisure activities, food, friendships and family life. Even learn how to order food at restaurants and cafés! Celebrate French holidays and enjoy some wonderful French cuisine! *Miam! Miam!*

NOTE: This is a NCAA approved course.

COURSE FEE: Lab Fee: $16.50. ***PREREQUISITE****: None.*

FRENCH II (501)..... Credit: 1

One step closer to your dream of travel abroad! Continue learning French vocabulary through topics of shopping, home, sports, clothing, weekend activities, food, vacations, and hobbies. Increase your knowledge of the French-speaking world by exploring Parisian monuments, listening to French music and watching authentic French films. Play games and act out skits to deepen your appreciation of the French language. French holidays and French food are sure to be a highlight of the class.

NOTE: This is a NCAA approved course.

COURSE FEE: Lab Fee: $16.50. ***PREREQUISITE****: French I (500).*

⊙FRENCH III Honors (502)..... Credit: 1

Make your French language skills come alive! You will continue your travels to French-speaking countries far and wide. Make travel arrangements, use the métro, reserve a hotel room, and go shopping in the markets. Talk about city and country life, animals, and daily routines. Learn about renting an apartment or living with a host family. These are all topics you will encounter. Read stories from Le Petit Nicolas. Perform skits and even be on your own food show! Films, games, food, music and holiday celebrations are an integral part of French class.

NOTE: This is a NCAA approved course.

REQUIREMENTS: Success comes with completion of assigned homework and with using as much French as possible in class**.**

COURSE FEE: Lab Fee: $16.50. ***PREREQUISITES****: French II (501).*

⊙FRENCH IV Honors (505)..... Credit: 1

Here's one more year closer to French fluency! Develop a greater ability to communicate and understand French while using real-life documents, videos, websites and more in class. Learn to use your language skills through topics such as travel, the arts, professions, media, sports and fitness, values, and relationships in the French- speaking world. You will also perform skits, play games, celebrate holidays, enjoy films and savor cuisine from different francophone countries. *On y va!*

NOTE: This is a NCAA approved course.

REQUIREMENTS: Success comes with completion of assigned homework and with using as much French as possible in class.

PREREQUISITES*: French III H (502)*

⊙AP FRENCH LANGUAGE & CULTURE PS (508)..... Credit: 1

Continue your path to French fluency while using real-life documents, videos, websites and more in class. You will watch French films, listen to French musicians, cook French recipes and immerse yourself in French! *Mais oui!* Review grammar concepts while increasing your communication skills and participate in everyday conversations to prepare you for travels abroad. You will also perform skits, play games, celebrate holidays, enjoy films and savor cuisine from around the francophone world. This course is the equivalent to a fourth semester college course in French language. Students who elect to take the AP® French Language Examination at the end of this course have the opportunity to earn University credit at many universities. In addition, retroactive credits may be earned.

NOTE: This is a NCAA approved course. **REQUIREMENTS:** Success comes with completion of assigned homework and with using as much French as possible in class.

COURSE FEE: Lab Fee: $25.00. ***PREREQUISITES****: French IVH (505).*

⊙ = Students in these advanced classes should have the ability to either test out of college foreign language requirements or to place into more advanced level university foreign language courses, and thereby earning retroactive credits.

WORLD LANGUAGES: SPANISH

SPANISH I (524)..... Credit: 1

Enjoy the expression of conversation in Spanish. Work on oral practice and listening comprehension, as well as the development of reading and writing skills. Understand the culture of Spain, Latin America and the Hispanics living in the United States. By the end of the year students will be able to introduce themselves, share likes and dislikes, share information about pastimes and daily activities in the present tense**.**

NOTE: This is a NCAA approved course. **COURSE FEE**: $17.00-20.00 for workbook. ***PREREQUISITE****: None*

SPANISH II (525)..... Credit: 1

Students will continue with the Spanish language by developing conversational, written, and listening skills. Students will continue to gain in knowledge and appreciation of other cultures, specifically those of Ecuador, The Dominican Republic, Argentina, and Costa Rica. By the end of the year, students will be able to describe a house and household items, plan a party, and talk about sports, health, technology, daily routines, vacation plans, and leisure activities. Students will be able to use irregular verbs in the present tense, use affirmative commands in the familiar form and speak in the simple past tense.

NOTE: This is a NCAA approved course. **COURSE FEE**: $17.00-20.00 for workbook. ***PREREQUISITE****: Spanish I (524).*

⊙SPANISH III Honors (526)..... Credit: 1

Increase proficiency in all aspects of the language, speaking, reading, writing, listening and cultural awareness throughout the Spanish-speaking world. Many pre-AP activities are included, to introduce students to higher level thought processes in the language.

NOTE: This is a NCAA approved course. **COURSE FEE:** $17.00-20.00 for workbook. ***PREREQUISITES****: Spanish II (525).*

SPANISH III Regular (527)..... Credit: 1

Increase proficiency in all aspects of the language, speaking, reading, writing, listening and cultural awareness throughout the Spanish-speaking world. This course is intended to be a slower paced alternative to Spanish III Honors.

NOTE: This is a NCAA approved course. **COURSE FEE**: $17.00-20.00 for workbook. ***PREREQUISITE****: Spanish II (525*)

⊙SPANISH IV Honors (528)…..... Credit: 1

Students will strengthen conversational skills while working at a more advanced level. Students will improve reading, writing and listening skills along with using critical thinking skills to perform tasks related to the Spanish language and Hispanic culture. Along with these skills, students will gain fluency to help them function in a Spanish speaking country. As part of the reading selections, students will read authentic selections which include short stories and essays. As always, an important part of a foreign language is the culture as such, students compare and contrast cultural activities and attitudes. Students are expected to speak only Spanish in class. The majority of class is conducted in Spanish. Many pre-AP activities are included to introduce students to higher level thought processes in the language.

NOTE: This is a NCAA approved course **COURSE FEE**: $17.00-$20.00 for workbook.

PREREQUISITES*: Spanish III H (526) or instructor's consent.*

SPANISH IV Regular (529)..... Credit: 1

Students will continue to strengthen communication skills (speaking, reading, writing, and listening) while working at a more advanced level. Students will use critical thinking to perform tasks related to the Spanish language and Hispanic culture. Students will gain fluency to help them function in a Spanish speaking country. Students will read a variety of authentic selections from short stories to essays. Students will explore the culture of a variety of Spanish speaking countries. This course is intended to be a slower paced alternative to Spanish IV Honors. **NOTE:** Students taking this course will need instructor's permission to take AP Spanish.

NOTE: This is a NCAA approved course**. COURSE FEE**: $17.00-$20.00 for workbook. ***PREREQUISITES****: Spanish III (526 or 527).*

⊙ = Students in these advanced classes should have the ability to either test out of college foreign language requirements or to place into more advanced level university foreign language courses, and thereby earning retroactive credits

WORLD LANGUAGES: SPANISH

⊙AP SPANISH PS (530)..... Credit: 1

Students will continue to develop fluency and accuracy in the Spanish language applicable to various activities and disciplines focusing on six themes: Contemporary life, Families and Communities, Global challenges, Beauty and Aesthetics, Personal and Public Identities, and Science and Technology. This course is equivalent, both in content and difficulty, to a fourth semester college Spanish language course. All communication skills: speaking, listening, reading, and writing, are emphasized in a cultural and authentic content. Students are encouraged to take the AP exam, which may provide college credit by most colleges and universities. Retroactive credits may also be earned through a university placement test. As per the college Board: In order to best facilitate the study of language and culture, the course is taught in the target language. Class participation is required. Students will be expected to speak only Spanish in class.

NOTE: This is a NCAA approved course.

COURSE FEE: Workbook costs at printing: $16.50 for online version, $40.00 for hard copy.

***PREREQUISITES**: Spanish IV Honors (528) and/or instructor's consent.*

⊙ = Students in these advanced classes should have the ability to either test out of college foreign language requirements or to place into more advanced level university foreign language courses, and thereby earning retroactive credits.

CAREER & TECHNICAL EDUCATION

One of the many goals of education is to prepare students to be college & career ready. A strong academic and Career and Technical foundation and preparation for career opportunities are important educational components for Wisconsin students. Students can benefit from participation in educational programs which provide a career-based experience and a more deliberate selection of course work based on potential career interests.

Students seek a clear connection between their future career(s) and their class work. The opportunity to explore and experience the world-of-work is beneficial to career decision-making. Interning at a workplace provides a firsthand look at what skills are needed, how knowledge learned in school is put into action in the workplace, and informs the student about career choice. Career-based learning is the key to a successful 21st century.

Some career-based education programs and offerings provide an opportunity for students to earn post-secondary credits concurrently with earning high school credit. This may occur through local agreements between a high school and college (such as a technical college or university) or through a more comprehensive agreement at the state or national level. Students should inquire about these opportunities with their guidance counselor, teacher, and/or the school district's Career and Technical Education Coordinator. You can find more information about all the programs outlined in the following spreadsheet at http://www.marshfieldschools.org/cte

CTE™ Learning that works for Wisconsin

CAREER BASED LEARNING OPPORTUNITIES

Characteristics	Health Career Connections	Future Teacher Internship	Sports Medicine II
Objective	Health Career Connections offers internships (Bent's Chiropractic, St., Joseph's Hospital, Companion Day Services, YMCA, etc.) designed to familiarize students with the various careers in the medical profession.	Students will have the opportunity to work with a teacher(s) in various classroom settings to investigate career options in the Education and Training Career Cluster – Teaching/Training Pathway.	During your 60 volunteer hours, you will be assisting the Licensed Athletic Trainer (LAT) in caring for injured athletes, monitoring rehabilitation exercises as directed by the LAT, preparing medical kits, and reviewing/ maintaining medical records.
Eligibility	To **apply** for Health Career Connections, you must complete a program application and interview with employers during your sophomore year.	Senior standing, Careers with Kids or instructor consent; current with all credits & graduation requirements (minimum UW admission requirements), minimum of 3.0 GPA, Internship/Co-op Application, and complete the ACT prior to September of senior year.	Grade of B or better in summer school Sports Medicine I taken the summer before you begin the class, completion of an interview with Sports Medicine I instructors, and maintain a 3.0 GPA.
Paid/Unpaid	Unpaid	Unpaid	Unpaid
Required NO. of Work Hours	Periods 1-3 during student's senior year	Off-site periods 1-2 Monday-Thursday	60 volunteer hours
Prerequisite Coursework	Medical Terminology and Anatomy & Physiology during junior year. Nursing Assistant through MSTC between junior and senior year.	Careers with Kids or instructor consent	Sports Medicine I in summer school
MHS Coursework	Health Career Connections	Future Teacher Internship	Sports Medicine I
Semester/Year	Year	Semester	Second Semester
High School Credit	3 credits senior year	½ credit	½ credit
Release Time	Yes	Yes	No
Transportation	Student/Parent	Student/Parent	Student/Parent
Graded/Ungraded	Graded	Graded	Graded
Postsecondary Credit	Possible for Nursing Assistant course	None	None
Certificate Program	Nursing Assistant and DPI Youth Leadership Certificate	DPI Youth Leadership Certificate	DPI Youth Leadership Certificate if volunteering 90+ hours
Additional Workforce Credentials	Possible	N/A	Possible
Supervised By	CTE Coordinator	CTE Coordinator	CTE Coordinator
Content Areas	Health Science and Human Services	Education and Training	Health Science

CAREER BASED LEARNING OPPORTUNITIES

Characteristics	Human Services Academy	Capstones
Objective	The Human Services Academy is the first intergenerational career-based program in Wisconsin, and possibly the nation, annually enrolling over one-hundred students. This hands-on classroom is located in a building shared with Child Care Centers of Marshfield-Tiny Tiger and Companion Day Services.	Capstones are career-based classes that are designed to focus a student towards career goals and equip them with the knowledge and resources required to pursue a career in the manufacturing industry.
Eligibility	Open to all students	Metal Tech – Senior Transportation Systems – Junior Construction Tech – Senior
Paid/Unpaid	Unpaid	Unpaid
Required NO. of Work Hours	None	None
Prerequisite Coursework	None	See course descriptions for Capstone of interest
MHS Coursework	Students may complete the following HSA courses throughout their high school career: • Career Pathways • Connecting Generations • Caregiving and Community • Careers with Kids (11th or 12th)	Metal Tech Capstone Transportation Systems Capstone, and/or Construction Tech Capstone
Semester/Year	All courses are a semester	Year
High School Credit	Each course is ½ credit	Each Capstone is 2 credits
Release Time	No	No
Transportation	Students walk across Palmetto Avenue to HSA classroom	Student/Parent
Graded/Ungraded	Graded	Graded
Postsecondary Credit	Careers with Kids	Metal Tech Capstone
Certificate Program	DPI Assistant Child Care Teacher/Infant & Toddler if Careers with Kids is completed	N/A
Additional Workforce Credentials	Possible through Careers with Kids (SBS and SIDS)	Possible
Supervised By	Family & Consumer Sciences teachers	Technology Education teachers
Content Areas	Human Services, Health Science, and Education and Training	Manufacturing, Architecture & Construction, Transportation, Distribution & Logistics, and STEM

CAREER BASED LEARNING OPPORTUNITIES

Characteristics	Pathway Partners	Internships and Agriculture Co-op
Objective	Expose high school students to nurturing relationships with caring adults and to the diversity of opportunities and experiences in our community	Provides a work experience aligned with a student's career interests. Can lead to state certification in qualifying areas.
Eligibility	Grades 9-12	Grades 12 Student in good standing with at least 90% attendance
Paid/Unpaid	Unpaid	Paid
Required NO. of Work Hours	Mentor/mentee meetings once/moth	480 hours (State Certification) Average 10 hours per week
Prerequisite Coursework	N/A	Careers with Kids if pursuing child care
MHS Coursework	N/A	Ag Co-Op, FCS or BIT Internships
Semester/Year	Year	Year
High School Credit	None	FCS Internship- 2 Credits BIT Internship- 1.5 Credits Ag Co-op- 2 Credits
Release Time	With parent and school permission	Yes
Transportation	Student/Parent	Student/Parent
Graded/Ungraded	Ungraded	Graded
Postsecondary Credit	None	None
Certificate Program	N/A	DPI Certification in Employability skills DPI Certification in Skills Standards Program
Additional Workforce Credentials	N/A	Possible
Supervised By	Ms. Albee	Agriculture teacher or CTE Coordinator
Content Areas	Any content area. Recommended before Internship or Youth Apprenticeship placements	Any content area

CAREER BASED LEARNING OPPORTUNITIES

Characteristics	Youth Apprenticeship - YA	Youth Service Learning
Objective	Supports the development of desired skills aligned to a student's career interests. Leads to industry certification on qualifying areas	Youth Service Learning offers you the opportunity to: • Explore a career in a non-profit agency • Enhance employability by gaining work experience and references • Learn firsthand about some civic issues, needs and problems • Experience the satisfaction that comes from working without pay to help someone else • Develop communication skills, teamwork, civic responsibility, and leadership skills
Eligibility	Grades 11-12 Student in good standing with at least 90% attendance	Open to all students
Paid/Unpaid	Paid	Unpaid
Required NO. of Work Hours	450 hours in 1 year, 900 hours in 2 years Average 10 hours per week	Students who complete 100 hours or more of community service receive special recognition each year. A minimum of 60 hours of service must be in the community in approved activities. A maximum of 40 hours could be in-school service helping students of staff members in approved activities.
Prerequisite Coursework	None	None
MHS Coursework	YA by CTE department and related classroom instruction	None
Semester/Year	1 or 2 year placements	Varies
High School Credit	1 credit per year	None
Release Time	Yes	No
Transportation	Student/Parent	Student/Parent
Graded/Ungraded	Graded	Ungraded
Postsecondary Credit	Possible	None
Certificate Program	DWD Certificate of Occupational Proficiency	YSL will be noted on the student's transcripts, and the President's Student Service Award will be presented to students who serve 100 hours or more their senior year.
Additional Workforce Credentials	Possible	N/A
Supervised By	Agriculture Teacher or CTE Coordinator	Youth Service Learning Coordinator
Content Areas	Work experiences aligned to the following Programs of Study: • Agriculture, Food and Natural Resources • Architecture and Construction • Arts, A/V Technology and Communications • Finance • Health Science • Hospitality, Lodging and Tourism • Information Technology • Manufacturing • Science, Technology, Engineering and Math • Transportation, Distribution, and Logistics	Any content area