

Hill-McCloy High School Program of Studies

Our world of work is rapidly changing as existing careers become more complex and new careers demand increased levels of education. Students need increased academic competencies, advanced technical and communication skills and greater problem solving abilities to become productive citizens in a highly global economy. It is the goal of Hill-McCloy High School to create a climate where expectations are high, individual differences are nurtured, global awareness is promoted and lifelong learning is valued.

Hill-McCloy High School's Career Pathway System represents a commitment to the students in our community. It is critical that the home, school and community establish and maintain effective communications in order to assist students in meeting academic and career goals. By recognizing that students will be influenced and motivated by a variety of learning experiences, both within the school **and** within the community, we elevate those collaborative partnerships that lead to student success.

Students and their parents/guardians are encouraged to review the contents of this guide and school registration very carefully with teachers, school counselors and administrators. Through career awareness activities, we can work together to help ensure that students select the most challenging courses to meet their college and career goals. Careful scheduling is especially important as we implement more rigorous graduation requirements.

Montrose Community Schools is committed to a quality instructional program. We are proud of our schools, our teachers and most of all our students. We wish all students success during their high school careers and beyond.

Career Pathways

All students at Hill-McCloy High School are part of the Career Pathway Program as they select a Career Pathway and develop an appropriate academic/career plan leading to advanced study at a four-year college or university, community college, technical institution, or direct entry into the world of work. It is the responsibility of the school, home and community to provide experiences to assist students in making informed decisions about education after high school and career opportunities.

Montrose Community Schools provide a career education program. Career awareness activities followed by career exploration at the middle school level are designed to provide students with a wide range of career-related learning experiences. Assessments of student interests, aptitudes, and abilities, through such measurements as the ASVAB, PSAT, SAT, ACT WorkKeys Tests and the M-Step Exam, are integrated with a variety of career exploration opportunities. Career speakers, research projects, job shadowing, mentoring and other learning experiences that enrich academic content are combined with effective counseling practice to assist students in making informed decisions and setting goals. Student Educational Development Plans (EDP's) are developed in the middle school to record students' experiences in their career research, Career Pathway and courses needed to follow that Pathway. This EDP is updated

yearly and kept online for easy access at www.xello.world (EDP username: mont-student number, EDP password: mont.mmddyyyy birthday).

The Hill-McCloy High School counseling program continues to offer career exploration opportunities through a Career Pathway focus. The high school Counseling Department provides the student and family with direct access to career resources. The high school curriculum further expands career-related knowledge and experience through a variety of academic courses in a planned sequence.

During each of their high school years, students review their educational development plans and academic experience. School counselors, administrators and teachers are available to assist students as they explore options and make program decisions. The Educational Development Plan (EDP) serves as a valuable resource for student planning and as documentation for the school and family of the student's Career Pathway experience. It is recommended that parents actively engage in conversations with their student regarding careers and course selections.

What is a Career Pathway?

A Career Pathway is a system that creates well-marked "paths" of sequenced courses that provide both focus and direction to a student's learning experience. The Pathway prepares the student for a goal-oriented future and puts purpose in learning. It offers a system of choice for each student. Career Pathways include occupations that require varying levels of education and training. Career Pathways are organized into six career clusters that are grouped together because they share similar interests and strengths. The six Michigan Career Pathways are:

- Arts and Communications
- Business, Management Marketing and Technology
- Engineering/Manufacturing and Industrial Technology
- Health Sciences
- Human Services
- Natural Resources and Agriscience

Why Career Pathways?

Someday students will need to get jobs. They may go to college first or get advanced education in other ways, but they eventually enter the workforce. The bottom line is that the high paying jobs of the future will go to people with skills, so students need to know what it takes to get there...and to succeed. Career Pathways help students learn about new career opportunities, see how school subjects relate to the world of work, make classes more interesting, help students figure out what they're good at doing, show the education and skills needed to get good jobs and make their education fit them.

How do students benefit?







A student's Pathway prepares them so that they know what it takes to get a good job. It . . .

- Helps students learn about hot, new career opportunities
- Helps students see how school subjects relate to the world of work
- Makes students' classes more interesting
- Helps students figure out what they're good at doing
- Opens their minds to all kinds of careers in their chosen career major
- Shows students the education and skills needed to get the high paying jobs
- Makes the student's education fit them

What is my role as a student?

Do everything you can to focus on your future!

- Study hard and do your best in school and extracurricular activities
- Take advantage of every opportunity to learn about the real world through job shadowing, work experiences, field trips, community service and career speakers
- Talk to your parents and other adults about their jobs
- Go to school every day, on time, and with a good attitude...like a job
- Learn, first hand, about as many different jobs, businesses, and professions as possible
- Participate in career and college fairs
- Talk to your counselors and teachers

What are the Six Career Paths?	Is this Career Path for You?
 <p>Arts and Communication: Careers in this path are related to humanities and performing, visual, literary and media arts. These include architecture, graphic/ interior/ fashion design, writing; film, fine arts, journalism, languages, media, advertising, and public relations.</p>	<p>Are you a creative thinker? Are you imaginative, innovative and original? Do you like to communicate ideas? Do you like making crafts, drawing, playing a musical instrument, taking photos or writing stories? This may be the career path for you!</p>
 <p>Business, Management, Marketing and Technology: Careers in this path are related to the business environment. These include entrepreneurship, sales, marketing, computer / information systems, finance, accounting, personnel, economics and management.</p>	<p>Do you enjoy being a leader, organizing people, planning activities and talking? Do you like to work with numbers or ideas? Do you enjoy carrying through with an idea and seeing the end product? Do you like things neat and orderly? Would you enjoy balancing a checkbook, following the stock market, holding an office in a club, surfing the Internet? This may be your career path!</p>
 <p>Engineering/Manufacturing and Industrial Technology: Careers in this path are related to technologies necessary to design, develop, install, and maintain physical systems. These include engineering, manufacturing, construction, service and related technologies.</p>	<p>Are you mechanically inclined and practical? Do you like reading diagrams and blueprints, and drawing/ building structures? Are you curious about how things work? Would you enjoy painting a house, repairing cars, wiring electrical circuits or woodworking? This may be the career path for you!</p>
 <p>Health Sciences: Careers in this path are related to the promotion of health and treatment of disease. These include research, prevention, treatment and related health technologies.</p>	<p>Do you like to care for people or animals who are sick or help them stay well? Are you interested in diseases and in how the body works? Do you enjoy reading about science and medicine? Would it be fun to learn first aid, volunteer at a hospital or veterinary clinic? This may be your career path!</p>
 <p>Human Services: Careers in this path are related to economic, political and social systems. These include education, government, law and law enforcement, leisure and recreation, military, religion, childcare, social services, and personal services.</p>	<p>Are you friendly, open, understanding and cooperative? Do you like to work with people to solve problems? Is it important to you to do something that makes things better for other people? Do you like to help friends with family problems? Do you like reading, storytelling, traveling or tutoring young children? This could be your career path!</p>
 <p>Natural Resources and Agriscience: Careers in this path are related to agriculture, the environment and natural resources. These include agricultural sciences, earth sciences, environmental sciences, fisheries, forestry, horticulture and wildlife.</p>	<p>Are you a nature lover? Are you practical, curious about the physical world, and interested in plant and animals? Do you enjoy hunting or fishing? Do you like to garden or mow the lawn? Are you interested in protecting the environment? This could be your career path!</p>



ARTS & COMMUNICATION



This pathway includes careers related to the humanities and performing, visual, literacy, and media arts. These may include creative or technical writing, illustrating, graphic designing, interior and fashion design, publishing, theater and performing arts, journalism, languages, broadcasting, journalism, photography, advertising, and public relations. Specific examples include: Comedian, Model, Dancer, Composer, Artist, Actor, Engraving Press Operator, Interpreter, Author, Choreographer, Newscaster, Museum Curator, and Advertising Agent.

Professional: Course schedule recommended for careers that require a college degree

Grade 9		Grade 10		Grade 11		Grade 12	
English 9	1	English 10	1	Honors+ English 111		Honors + Writing	1
Algebra I	1	Geometry	1	Algebra II	1	PreCalc	1
Integrated Science I	1	Integrated Science II	1	Honors+ Chemistry	1	Science Elective	1
US History	1	World History	1	Civics/Economics	1	Psychology	1
Basic Health/PE	1	Spanish II	1	Spanish III/IV	1	Senior Seminar	0.5
Spanish I	1	Art Elective	1	Career Prep Seminar	0.5	Career Path Electives	1.5
				<u>Career Path Elective</u>	<u>0.5</u>		
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Technical: Course schedule recommended for careers that require on-the-job training, technical training and/or certification

Grade 9		Grade 10		Grade 11		Grade 12	
English 9	1	English 10	1	English 11	1	English 12	1
Algebra I	1	Geometry	1	Algebra II	1	Math Related	1
Integrated Science I	1	Integrated Science II	1	Integrated Science III	1	Science Elective	1
US History	1	World History	1	Civics/Economics	1	Social Studies Elective	0.5
Basic Health/PE	1	Spanish II	1	Career Prep Seminar	0.5	Senior Seminar	0.5
Spanish I	1	Career Path Elective	1	Art Elective	1	Career Path Electives	2
				<u>Career Path Elective</u>	<u>0.5</u>		
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Elective Courses for the Arts & Communication Career Pathway

Grade Available	Communications	Fine/Performing Arts	Visual Image Technology
9th grade	Business & Technology Basics	Choir	Art
	Business Marketing	Band	Business & Technology Basics
	Dual Enrollment	Intro to Theater	Digital Media
		Art	Woods/Metals
10th grade	Dual Enrollment	Advanced Art	
11th grade	Yearbook	GCI – Digital Media	Digital Media
	Dual Enrollment	Dual Enrollment	Yearbook
	Co-op	Co-op	GCI – Web Design, Programming & Animation
			GCI – Digital Media Arts
			GCI – Visual Design Communications
			Co-op
			Dual Enrollment
12th grade		GCI – Cosmetology	GCI – Visual Design Communications
		GCI – Digital Media Arts	GCI – Digital Media Arts
		GCI – Intro to 3D Game Programming	Co-op/Dual Enrollment

GCI indicates a Genesee Career Institute Course. See a counselor for further description of these options.



BUSINESS, MANAGEMENT MARKETING & TECHNOLOGY



Careers in this path are related to the business environment. These include entrepreneur, sales, marketing, computer/information systems, finance, accounting, personnel, economics, and management. Specific examples include Loan Officer, Economist, Tax Accountant, Legal Secretary, Hotel Manager, Office Manager, Computer Programmer, Ticket Agent, Account Teller, Salesperson, and Travel Agent.

Professional Path: Course schedule recommended for careers that require a college degree

Grade 9		Grade 10		Grade 11		Grade 12	
English 9	1	English 10	1	Honors+ English 11	1	Honors + Writing	1
Algebra I	1	Geometry	1	PreCalc	1	Calculus	1
Integrated Science I	1	Integrated Science II	1	Honors+ Chemistry	1	Science Elective	1
US History	1	World History	1	Civics/Economics	1	Psychology	1
Basic Health/PE	1	Algebra II	1	Spanish III/IV	1	Senior Seminar	0.5
Spanish I	1	Spanish II	1	Career Prep Seminar	0.5	Career Path Electives	1.5
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Technical Path: Course schedule recommended for careers that require job training, technical training and/or certification

Grade 9		Grade 10		Grade 11		Grade 12	
English 9	1	English 10	1	English 11	1	English Elective	1
Algebra I	1	Geometry	1	Algebra II	1	Math Elective	1
Integrated Science I	1	Integrated Science II	1	Integrated Science III	1	Science Elective	1
US History	1	World History	1	Civics/ Economics	1	Social Studies Elective	0.5
Basic Health/PE	1	Spanish II	1	Career Prep Seminar	0.5	Senior Seminar	0.5
Spanish I	1	Art Elective	1	Art Elective	1	Career Path Electives	2
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Elective Courses for the Business, Management, Marketing & Technology Career Pathway

Grade Available	Accounting	Computer Information Systems	Office Technologies
9th grade	Business & Technology Basics	Business & Technology Basics	Business & Technology Basics
	Business Marketing	Business Marketing	Business Marketing
		Cybersecurity	
10th grade	Virtual Enterprise	Cybersecurity	
11th grade	Virtual Enterprise	Virtual Enterprise	Virtual Enterprise
	GCI – Building Wealth	Cybersecurity	GCI – Web Design, Programming & Animation
	Co-op	GCI – Computer Hardware Technician	GCI – Building Wealth
	Dual Enrollment	GCI –Building Wealth	Dual Enrollment
		Dual Enrollment	Co-op
		Co-op	
12th grade	Virtual Enterprise	GCI –Building Wealth	GCI Building Wealth
	GCI – Building Wealth	GCI – Computer Hardware -Networking & Support	
	Dual Enrollment	Dual Enrollment	Dual Enrollment
	Co-op	Co-op	Co-op

GCI indicates a Genesee Career Institute Course. See a counselor for further description of these options.



ENGINEERING/MANUFACTURING & INDUSTRIAL TECHNOLOGY



The Engineering/Manufacturing and Industrial Technology (EMIT) pathway encompasses careers associated with the design, development, production, installation and maintenance of products or physical systems. The many fields in this pathway include careers in automotive and equipment service, building construction, chemical process technologies, and all aspects of manufacturing. Specific career examples include: Architect, Plumber, Electrician, Air traffic controller, Auto mechanic, Chemical engineer, Draftsman, Surveyor, Geographer, Aeronautical engineer, Residential builder and Computer aided design technologist.

Professional Path: Course schedule recommended for careers that require a college degree

Grade 9		Grade 10		Grade 11		Grade 12	
English 9	1	English 10	1	Honors+ English 111		Honors +Writing	1
Algebra I	1	Geometry	1	Algebra II	1	Pre Calc	1
Integrated Science I	1	Integrated Science II	1	Honors Physics	1	Honors+ Chemistry	1
US History	1	World History	1	Civics/Economics	1	Senior Seminar	0.5
Basic Health/PE	1	Spanish II	1	Career Prep Seminar	0.5	Social Studies elective	0.5
Spanish I	1	Career Path Elective	1	Spanish III/IV	1	Career Path Electives 2	
				<u>Career Path Elective</u>	<u>0.5</u>		
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Technical Path: Course schedule recommended for careers that require job training, technical training and/or certification

Grade 9		Grade 10		Grade 11		Grade 12	
English 9	1	English 10	1	English 11	1	English Elective	1
Algebra I	1	Geometry	1	Algebra II	1	Math Elective	1
Integrated Science I	1	Integrated Science II	1	Integrated Science III	1	Science Elective	1
US History	1	World History	1	Civics/Economics	1	Social Studies Elective	0.5
Basic Health/PE	1	Spanish II	1	Career Prep Seminar	0.5	Senior Seminar	0.5
Spanish I	1	Career Path Elective	1	<u>Career Path Electives</u>	<u>1.5</u>	<u>Career Path Electives 2</u>	<u>2</u>
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Elective Courses for the Engineering, Manufacturing & Industrial Technology Career Pathway

Grade Available	Construction/Building Trades	Pre-Engineering/ Manufacturing Tech	Transportation Technology
9th grade & 10th grade	Cybersecurity	Cybersecurity	Cybersecurity
	Wood Technology I/II/Adv	Metal Technology I & II	Metal Technology I & II
	Metal Technology I & II		
11th grade	Advanced Wood Tech	Honors Physics	GCI – Automotive Technology
	GCI – Construction Trades	GCI – Welding	GCI – Medium/Heavy Duty Technician
	GCI – Electrical Wiring	GCI- Mechatronics	Dual Enrollment
	GCI – Mechatronics	Dual Enrollment	Co-op
	Co-op	Co-op	
	Dual Enrollment		
12th grade	Advanced Wood Tech	GCI – Mechatronics	GCI – Advanced Automotive Technology

GCI indicates a Genesee Career Institute Course. See a counselor for further description of these options.



HEALTH SCIENCES



Careers in this path are related to the promotion of health and treatment of disease. These include research, prevention, treatment and related health technologies. Specific career examples include: Dentist, Dental Hygienist, Doctor, Nurse, Anesthesiologist, Laboratory Technician, Emergency Medical Technician, Veterinary Technician, Pharmacist, Nutritionist, Respiratory Therapist and Physical Therapist.

Professional Path: Course schedule recommended for careers that require a college degree

Grade 9		Grade 10		Grade 11		Grade 12	
English 9	1	English 10	1	Honors+ English 11	1	Honors+ Writing	1
Algebra I	1	Geometry	1	Algebra II	1	PreCalc	1
Integrated Science I	1	Integrated Science II	1	Honors+ Chemistry	1	Anatomy & Physiology	1
US History	1	World History	1	Civics/Economics	1	Psychology	1
Basic Health/PE	1	Spanish II	1	Career Prep Seminar	0.5	Senior Seminar	0.5
Spanish I	1	Career Path Elective	1	Spanish III/IV	1	Career Path Electives	1.5
				Career Path Elective	0.5		
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Technical Path: Course schedule recommended for careers that require job training, technical training and/or certification

Grade 9		Grade 10		Grade 11		Grade 12	
English 9	1	English 10	1	English 11	1	English Elective	1
Algebra I	1	Geometry	1	Algebra II	1	Math Elective	1
Integrated Science I	1	Integrated Science II	1	Integrated Science III	1	Science Elective	1
US History	1	World History	1	Civics/Economics	1	Social Studies Elective	0.5
Basic Health/PE	1	Spanish II	1	Career Prep Seminar	0.5	Senior Seminar	0.5
Spanish I	1	Career Path Elective	1	Career Path Electives	1.5	Career Path Electives	2
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Elective Courses for the Health Sciences Career Pathway

Grade Available	Child & Adult Care	Health Occupations
9th grade	Business & Technology Basics	Business & Technology Basics
	Lifetime Sports	
	Team Sports	
	Art	
11th grade	Psychology	Psychology
		Anatomy & Physiology
	GCI – Early Childhood Education	Honors+ Chemistry
	GCI – Medical Career Foundations (MCF)	GCI – Emergency Medical Concepts
	Dual Enrollment	GCI – Medical Career Foundations
	Co-op	GCI – Medical Assistant I
		GCI – Sports Medicine I
		GCI – Veterinary Medicine I
		GCI – Forensic Science I
		Dual Enrollment
		Co-op
12th grade	GCI – Early Childhood Education	Anatomy & Physiology
		GCI – Forensic Science Advanced Studies
		GCI – CNA- Advanced Studies
		GCI – Emergency Medical Technician (EMT)
		GCI – Medical Assistant II
		GCI – Nursing-Advanced Studies
		GCI – Sports Medicine Advanced Studies
		GCI – Veterinary Medicine II
		GCI – Allied Health Professionals-Advanced Studies

GCI indicates a Genesee Career Institute Course. See a counselor for further description of these options.



HUMAN SERVICES



Careers in this path are related to childcare, civil service, education, and social services. These may include law and legal studies, public administration, child and family services, education, government, law enforcement, leisure and recreation, military, religion, social services, and personal services. Specific examples include: child care worker, flight attendant, postal worker, police officers, lawyers, cosmetologists, chefs, librarians, teachers, counselors, school administrators, firefighters, clergy, and social workers.

Professional Path: Course schedule recommended for careers that require a college degree

Grade 9		Grade 10		Grade 11		Grade 12	
English 9	1	English 10	1	Honors+ English 11	1	Honors + Writing	1
Algebra I	1	Geometry	1	Algebra II	1	PreCalc	1
Integrated Science I	1	Integrated Science II	1	Honors+ Chemistry	1	Science Elective	1
US History	1	World History	1	Civics/Economics	1	Psychology	1
Basic Health/PE	1	Spanish II	1	Career Prep Seminar	0.5	Senior Seminar	0.5
Spanish I	1	Art Elective	1	Spanish III/IV	1	Career Path Electives	1.5
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Technical Path: Course schedule recommended for careers that require job training, technical training and/or certification

Grade 9		Grade 10		Grade 11		Grade 12	
English 9	1	English 10	1	English 11	1	English I2	1
Algebra I	1	Geometry	1	Algebra II	1	1Math Elective	1
Integrated Science I	1	Integrated Science II	1	Integrated Science III	1	Science Elective	1
US History	1	World History	1	Civics/Economics	1	Social Studies Elective	0.5
Basic Health/PE	1	Spanish II	1	Career Prep Seminar	0.5	Senior Seminar	0.5
Spanish I	1	Career Path Elective	1	Career Path Electives	1.5	Career Path Electives	2
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Elective Courses for the Human Services Career Pathway

Grade Available	Hospitalities & Food Services	Public Safety & Protections Services	Education
9th grade	Business & Technology Basics	Business & Technology Basics	Business & Technology Basics
		GCI- JROTC	Art
10th grade		Honors+ Chemistry	
		GCI-JROTC	
		Weightlifting/Conditioning	
11th grade	GCI – Culinary Essentials I	Psychology	Psychology
	GCI – Early Childhood Education	GCI – Public Safety and Homeland Security	Digital Media
	GCI – Cosmetology I	GCI – Forensic Science	Teacher Cadet
	Dual Enrollment	GCI-JROTC	GCI – Early Childhood Education
	Co-op	Dual Enrollment	Dual Enrollment
		Co-op	Co-op
12th grade	GCI – Culinary Essentials I	Forensic Science A & B	Teacher Cadet
	GCI – Culinary Essentials II	GCI – Forensic Science Advanced Studies	GCI – Early Childhood Education
	GCI – Cosmetology II	GCI- ADV JROTC	

GCI indicates a Genesee Career Institute Course. See a counselor for further description of these options.



NATURAL RESOURCES & AGRISCIENCE



Careers in this path are related to agriculture, the environment, and natural resources. These may include agricultural sciences, earth sciences, environmental sciences, fisheries management, forestry, horticulture, wildlife management, and many agribusiness and agro-industrial occupations. Specific career examples include: Groundskeeper, Agricultural Sales, Farmer, Oceanographer, Physicist, Landscaper, Marine Biologist, Conservation Agent, Chemist and Forester.

Professional Path: Course schedule recommended for careers that require a college degree

Grade 9		Grade 10		Grade 11		Grade 12	
English 9	1	English 10	1	Honors+ English 11	1	Honors + Writing	1
Algebra I	1	Geometry	1	Algebra II	1	Pre Calc	1
Integrated Science I	1	Integrated Science II	1	Honors+ Chemistry	1	Science Elective	1
US History	1	World History	1	Civics/Economics	1	Psychology	1
Basic Health/PE	1	Spanish II	1	Career Prep Seminar	0.5	Senior Seminar	0.5
Spanish I	1	Art Elective	1	Spanish III/IV	1	Career Path Electives	1.5
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Technical Path: Course schedule recommended for careers that require job training, technical training and/or certification

Grade 9		Grade 10		Grade 11		Grade 12	
English 9	1	English 10	1	English 11	1	English Elective	1
Algebra I	1	Geometry	1	Algebra II	1	Math Elective	1
Integrated Science I	1	Integrated Science II	1	Integrated Science III	1	Science Elective	1
US History	1	World History	1	Civics/Economics	1	Social Studies Elective	0.5
Basic Health/PE	1	Spanish II	1	Career Prep Seminar	0.5	Senior Seminar	0.5
Spanish I	1	Art Elective	1	Career Path Electives	1.5	Career Path Electives	2
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Elective Courses for the Natural Resources & Agriscience Career Pathway

Grade Available	Natural Resources	Agriscience
9th grade	Business & Technology Basics	Business & Technology Basics
	Wood Technology I/II	Metal Technology I/II
	Metal Technology I/II	
11th grade	Advanced Wood Tech	Virtual Enterprise
	GCI – Agriculture, Food, and Natural Resources	GCI – Agriculture, Food, and Natural Resources
	GCI – Public Safety/ Homeland Security	GCI – Public Safety/ Homeland Security
	Dual Enrollment	GCI – Medium/Heavy Duty Technician
	Co-op	Dual Enrollment
		Co-op
12th grade	Advanced Wood Tech	
	GCI – Agriculture, Food, and Natural Resource – Adv Studies	GCI – Agriculture, Food, and Natural Resource – Adv Studies
	Dual Enrollment	Dual Enrollment
	Co-op	Co-op

GCI indicates a Genesee Career Center Course. See a counselor for further description of these options.

SAMPLE SCHEDULES

The course schedules listed below are THE TWO EXAMPLES for *freshmen* in the 2024-2025 school year and beyond.

SEMESTER 1	SEMESTER 2
English 9	English 9
Math	Math
Integrated Science I	Integrated Science I
US History	US History
Spanish I	Spanish I
Band/Choir	Band/Choir

SEMESTER 1	SEMESTER 2
English 9	English 9
Math	Math
Integrated Science I	Integrated Science I
US History	US History
Spanish I	Spanish I
Health/PE	PE/Health

- ❖ Math placement will be according to the current level final grade.
- ❖ Resource or Strategies for Academic Success may replace Spanish for selected students.
- ❖ Music students may take Health and PE when there is more flexibility in scheduling during their 11th-12th grade years.

The course schedules listed below are TWO EXAMPLES for *sophomores* in the 2024-2025 school year and beyond.

SEMESTER 1	SEMESTER 2
English 10	English 10
Math	Math
Integrated Science II	Integrated Science II
World History	World History
Spanish II	Spanish II
Band/Choir	Band/Choir

SEMESTER 1	SEMESTER 2
English 10	English 10
Math	Math
Integrated Science II	Integrated Science II
World History	World History
Spanish II	Spanish II
Elective	Elective

- ❖ Resource will replace Spanish for selected students until the junior year.
- ❖ Music students may take Health and PE when there is more flexibility in scheduling during their 11th-12th grade years.

Junior and Senior schedules are established on a more individualized basis due to increased flexibility and greater options.

WHY IS COLLEGE IMPORTANT?

You've probably heard that a college degree can open many doors for you. It's true, but what are the advantages that going to college can provide?

For starters, since many careers require a college degree, attending college will increase your opportunities. Also, according to the U.S. Census Bureau, a college graduate will earn \$1 million more in a lifetime than someone who doesn't attend college. Most important, the people you meet, the experiences you have and the knowledge you gain from college will impact you for the rest of your life.

HOW SHOULD YOU PLAN FOR COLLEGE?

Effective planning and preparation are both key to college success. Even if you're not yet sure about attending college, making the right choices now will keep college attendance available as an option for you.

This planning guide is just one tool that can help you in the process. It offers guidance regarding college readiness and provides additional sources of information.

PREPARING FOR SUCCESS

It is strongly recommended that college-bound students complete these courses in high school:

- **English:** four years
- **Mathematics:** four years
- **Biological and physical sciences:** four years
- **History and social sciences:** four years
- **Foreign language:** two years of a single language

GUIDELINES FOR EIGHTH GRADE

- Consider taking algebra I in order to take precalculus or calculus as a senior in high school.
- Consider taking a foreign language course.
- Develop good study habits, which will assist you in high school as well as in college.
- Visit the websites of colleges that interest you and note their high school curriculum requirements.
- Let your guidance counselor know you want to follow a college preparatory program when planning your high school schedule.

GUIDELINES FOR NINTH AND 10TH GRADES

- Work hard to get good grades. Most colleges will review your academic performance in ninth, 10th and 11th grades when making an admission decision.
- Start compiling a notebook as you research and visit colleges that interest you. Keep track of web addresses, high school curriculum requirements, and important dates and deadlines. Note of what you like, what you didn't like and what information you still need while researching colleges.
- Visit the colleges that most interest you, perhaps as part of a family vacation or other activity. Talk to current students or alumni of these colleges to get a real idea of what they're like.
- Keep developing good study habits. Ninth graders should aim for at least an hour of study each weeknight, and 10th graders should aim for two hours of study each weeknight.
- Ask your guidance counselor about scholarships available from your high school, in your community or nationally.
- Begin to identify your areas of academic strength as well as areas of particular interest or passion.
- During the summer months, participate in meaningful activities—such as workshops, community programs and enrichment opportunities—both for personal fulfillment and as an achievement you can include on college applications. Consider job shadowing to learn more about professions that interest you.
- Explore college websites in greater depth.

GUIDELINES FOR 11TH GRADE

- Maintain good grades. This year is especially important since it will be your grade point average from ninth through 11th grades that college admissions officials will be reviewing.
- Take a majority of academic courses, such as English, math, science, social studies and foreign language.
- Take the ACT or SAT exam between March and June. If you aren't satisfied with your initial score, take the test again in early fall of your senior year. The ACT writing assessment is required by most colleges, so keep your options open and take it.
- Continue looking at college websites and brochures. Narrow your search to three to five potential colleges or universities.
- Establish an email account to use just for college application purposes and check it often. Most colleges and universities will send you periodic updates on your application status and having a dedicated email account works best if you are applying to several institutions.
- Start a comparison worksheet on the colleges and universities that you might want to attend.
- Visit as many of the colleges and universities that interest you as you can. It's difficult to judge the "feel" of an institution unless you've visited campus.
- When planning your senior year, choose at least three or four academic courses per semester. Continuing with math, foreign language and lab sciences greatly enhances your opportunity for academic success in college.
- Search for potential scholarships using free online search services such as fastweb.com, finaid.com and collegeanswer.com. Many scholarship applications must be completed as early as November of your senior year to apply for funds available the following fall.

GUIDELINES FOR 12TH GRADE

- Keep your grades up. Many schools review final grades and may rescind an offer of admission if grades slip this year.
- Take four academic courses—such as English, math, science, social studies or foreign language—per semester.
- If you haven't already done so, take the ACT or SAT exam as soon as possible. Most colleges and universities require a test score in order to make an admission decision.
- Apply for admission to the three to five colleges or universities that most interest you no later than October. Check websites and brochures for specific application deadlines.
- Revisit the colleges and universities that most interest you. Many offer day or overnight options that enable you to stay with current students and attend class with them.
- Attend a financial aid workshop with your parents in your local school district. Revisit free online search services—such as fastweb.com, finaid.com and collegeanswer.com—and note application deadlines, which may be as early as November.
- Complete the Free Application for Federal Student Aid, or FAFSA, online as soon after January 1 as possible to apply for need-based financial aid for the following academic year.
- When you receive admissions offers, remember to send in any required deposits. Deposits are normally refundable until May 1.



RESEARCH YOUR CAREER OPTIONS

It is recommended that students research specific careers in which they are interested as well as similar careers within their pathway.

- Log on to www.xello.world, Username: mont-student number, Password: mont.mmddyyyy birthday
See how your interests match up to career fields
Get information about specific careers: descriptions, interviews, statistics and training
Learn about training programs for career fields
Use your EDP password to save interesting information to your personal Educational Development Plan
- You can use the following internet resources to research career details
Occupation Descriptions, Trends and Training Information: www.khake.com/
Occupation Descriptions: online.onetonline.org
Occupation Descriptions: www.mitalent.org
Occupation Descriptions and Trends: www.careerinfonet.org/default.asp
Occupation Descriptions and Statistics: www.bls.gov/oco
Occupational Employment Statistics: www.bls.gov/oes
- Take advantage of exploration opportunities:
Field trips, Job shadowing, Networking, Volunteering
- Talk to your parents and your counselor about these and other options

GRADUATION REQUIREMENTS

It is possible to earn 24 credits in four years of high school. A minimum of 22 credits will be required for graduation, 16 credits in core classes and 6 credits in electives. This includes the following:

1. **Four (4) credits in English**, including:
 - a. 1 credit in English 9
 - b. 1 credit in English 10
 - c. 1 credit in English 11
 - d. 1 credit in an English elective
2. **Four (4) credits in Mathematics**, including:
 - a. 1 credit in Algebra I
 - b. 1 credit in Geometry
 - c. 1 credit in Algebra II
 - d. 1 credit related to Math in the senior year (may be Algebra II)
3. **½ credit in Senior Seminar**
4. **One (1) credit in Health/Physical Education**
 - ½ credit in Basic Health
 - ½ credit in Physical Education
5. **Three (3) credits in Social Studies**, including:
 - a. 1 credit in US History
 - b. 1 credit in World History
 - c. ½ credit in Civics
 - d. ½ credit in Economics
6. **Three (3) credits in Science**, including:
 - a. 1 credit in Integrated Science I
 - b. 1 credit in Integrated Science II
 - c. 1 credit in Integrated Science III or Honors+ Chemistry or Honors Physics or specified MDE-approved CTE program
7. **Two (2) credits of a world language other than English**
May partially or fully substitute one world language credit with a MDE-approved CTE program or by completing an additional visual or performing arts course
8. **One (1) credit of visual, performing or applied arts or a combination**
May substitute an additional credit in English, math, science, Language other than English, or a CTE program

GRADUATION

It is possible to earn 24 credits and complete graduation requirements in four years. In order to receive a diploma and graduate, a student will need to meet the school and state requirements for basic course work and earn the total number of 22 credits. A credit is equal to one hour of instruction for the entire year. Any student who has the possibility of meeting graduation requirements at the end of the first semester of his/her senior year will be considered a member of the graduating class.

Students must have met all graduation requirements to participate in graduation ceremonies.

High School Graduation Requirements

	English	Math	Science	Social Studies	Other	Arts/World Lang
Class of 2025 through 2027	4 credits	4 credits	3 credits	History – 2 credits Social Studies – 1 credit	- Basic Health - Physical Education - Senior Seminar	1 credit of visual, performing, or applied arts or a combination 2 credits of a language other than English (need not be earned in high school)

	English	Math	Science	Social Studies	Other	Arts/World Lang
Class of 2028 and beyond	4 credits	4 credits	3 credits	History – 2 credits Social Studies – 1 credit	- Basic Health - Physical Education - Senior Seminar - Personal Finance	1 credit of visual, performing, or applied arts or a combination 2 credits of a language other than English (need not be earned in high school)

COMPARISON OF COURSES NEEDED TO GRADUATE ACCORDING TO PROGRAM

<u>DIPLOMA</u> (22 credits)	<u>MAGNA CUM LAUDE</u> (Honors 3.4 gpa + 7 Honors Classes)	<u>SUMMA CUM LAUDE</u> (High Honors 3.8 gpa + 7 Honors Classes)	<u>NCAA DIVISION I</u>	<u>NCAA DIVISION II</u> (Core GPA 2.0 + SAT sum score 820)
- English 9 - English 10 - Honors+ /English 11 - Honors+ English 12	- English 9 - English 10 - Honors+/English 11 - Honors+ English 12	- English 9 - English 10 - Honors+/English 11 - Honors+/English 12	- English 9 - English 10 - Honors+/English 11 - Honors+/English 12	- English 9 - English 10 - Honors+/English 11 - Honors+/English 12
- Algebra I - Geometry - Algebra II OR Algebra II: Data Science - PreCalc Or Personal Finance Wood Techs/ Metal Techs/CADs some Genesee Career Institute classes	- Algebra I - Geometry - Algebra II - PreCalc or Calculus OR Personal Finance, Wood Techs/ Metal Techs/CADs some Genesee Career Institute classes	- Algebra I - Geometry - Algebra II - PreCalc or Calculus OR Personal Finance, Wood Techs/ Metal Techs/CADs some Genesee Career Institute classes	- Algebra I - Geometry - Algebra II - Honors+ PreCalc	- Algebra I - Geometry - Algebra II - Honors+ PreCalc
- Integrated Science I - Integrated Science II - Integrated Science III	- Integrated Science I - Integrated Science II - Integrated Science III OR Hon Chemistry OR Hon Physics - Honors Anatomy & Physiology	- Integrated Science I - Integrated Science II - Integrated Science III OR Hon Chemistry OR Hon Physics - Honors Anatomy & Physiology	- Integrated Science I - Integrated Science II - Integrated Science III OR Honors+ Chemistry OR Honors Physics	- Integrated Science I - Integrated Science II - Integrated Science III OR Honors+ Chemistry OR Honors Physics
- US History - World History - Civics - Economics	- US History - World History - Civics - Economics - Honors World War II - Honors Psychology	- US History - World History - Civics - Economics - Honors World War II - Honors Psychology	- US History - World History - Civics - Economics	- US History - World History - Civics - Economics
2 credits of a language other than English (need not be earned in high school)	2 credits of a language other than English (need not be earned in high school) - Honors+ Spanish III/IV	2 credits of a language other than English (need not be earned in high school) - Honors+ Spanish III/IV	2 credits of a language other than English (need not be earned in high school)	2 credits of a language other than English (need not be earned in high school)
- Basic Health - Physical Education - Senior Seminar	- Basic Health - Physical Education - Senior Seminar	- Basic Health - Physical Education - Senior Seminar	- Basic Health - Physical Education - Senior Seminar	- Basic Health - Physical Education - Senior Seminar
1 credit of visual, performing, or applied arts or a combination	1 credit of visual, performing, or applied arts or a combination	1 credit of visual, performing, or applied arts or a combination	1 credit of visual, performing, or applied arts or a combination	1 credit of visual, performing, or applied arts or a combination
			3 credits of additional core courses:	3 credits of additional core courses: Honors+ PreCalc/Honors+ Calculus

			Honors+ PreCalc/Honors+ Calculus Honors Anatomy & Physiology Honors Physics or Honors+ Chemistry (in addition to credit for the other) America in the 21 st Century Honors Psychology Honors World War II Honors America in the 21 st Century Honors US History: The 60's Honors+ US History Spanish I-IV American Sign Language I & II	Honors Anatomy & Physiology Honors Physics or Honors+ Chemistry (in addition to credit for the other) America in the 21 st Century Honors Psychology Honors World War II Honors America in the 21 st Century Honors US History: The 60's Honors+ US History Spanish I-IV American Sign Language I & II
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GRADES

The following grading scale will be used to determine student final letter grade. Semester grades are computed based on average of marking periods. Semester grade computation is determined and explained by teacher each semester. All Honors classes earn weighted grades with weight applied at the end of each semester.

LETTER	PERCENTAGE	UNWEIGHTED GRADE VALUE	WEIGHTED GRADE/HONORS VALUE (+0.5)
A	93.00 – 100.99	4.0	4.5
A-	90.00 - 92.99	3.8	4.3
B+	87.00 - 89.99	3.5	4.0
B	83.00 - 86.99	3.0	3.5
B-	80.00 - 82.99	2.8	3.3
C+	77.00 - 79.99	2.5	3.0
C	73.00 - 76.99	2.0	2.5
C-	70.00 - 72.99	1.8	2.3

D+	67.00 - 69.99	1.5	2.0
D	63.00 - 66.99	1.0	1.5
D-	60.00 - 62.99	0.8	1.3
E	00.00 - 59.99	0.0	0.0

*Please Note: OFF CAMPUS CLASSES (GCI, MOTT CC, UM FLINT, BAKER COLLEGE, ETC.) MAY ADHERE TO A DIFFERENT GRADING SCALE and receive 0.5 credit/high school hour, the same as on campus classes. High school credit and grade earned in middle school is not calculated in high school Grade Point Average (GPA), but credit appears on the high school transcript.

VALEDICTORIAN / SALUTATORIAN – CUM LAUDE

Students will be recognized for **Cum Laude** if they meet all of the following criteria:

- Students must pass 11th and 12th grade Honors courses as identified by staff
- Students must successfully complete 7 Honors credits
- Students must take a minimum of 3 Honors credits in the Senior year
- Students must complete both semesters of a two-semester course to receive Honors credit
- Honors courses must be passed with a C or better to count as an Honors credit (pre-weighted)
- Honors courses earn weighted bonus (.50) at the end of the semester
- Honors credit will not be issued for courses taken pass/fail
- Students must pass all Honors courses in which they were enrolled
- Students must qualify for a graduation cord (GPA of 3.0 or higher.)
- Students must have fulfilled all graduation requirements

Students will be recognized for **Magna Cum Laude** if they meet both of the following criteria:

- Meet the requirements for Cum Laude
- Have a GPA of 3.4 or higher

Students will be recognized as **Summa Cum Laude** if they meet both of the following criteria:

- Meet the requirements for Magna Cum Laude
- Have a GPA of 3.8 or higher

Honors classes for the graduating Class of 2024 and beyond are:

English: Honors + English 11 OR, Honors+ English 12

Math: Honors+ PreCalculus A/B, or Honors+ Calculus
Science: Honors+ Chemistry, Honors Physics, Honors Anatomy & Physiology
Social Studies: US History: Honors WWII (1/2 credit), Honors America in the 21st Century (1/2 credit), Honors US History: The 1960's (1/2 credit), Honors+ U.S. History: 1865 - Present, Honors Psychology A/B OR
Other: Honors+ Spanish III (1/2 credit), Honors+ Spanish IV (1/2 credit)

Some Genesee Career Institute, dual enrollment and independent study classes may qualify if approved by the departments, counseling staff and principal.

Students who wish to qualify as Valedictorian or Salutatorian must attend Hill-McCloy High School for their entire Sophomore, Junior and Senior years and graduate Magna Cum Laude.

NATIONAL HONOR SOCIETY COURSE REQUIREMENTS

Acceptance into membership in the Hill-McCloy Chapter of National Honor Society gives students recognition for outstanding achievement. Students must apply for membership. A faculty council of five teachers reviews each applicant's performance in the areas of scholarship, leadership, service and character. In each case, the council then recommends acceptance or rejection to the Principal. Students must complete these requirements, maintain a minimum overall 3.40 GPA and meet additional standards to be considered for admission to NHS. These are the course requirements for the Hill-McCloy chapter of NHS:
(Prerequisites assumed, updated 1/21)

Junior Requirements

Completion or enrollment in:

- Honors + English 11
- Algebra II
- Honors+ Chemistry or Honors Physics

Senior Requirements

- Completion of all Junior Requirements AND all Magna Cum Laude requirements.
- Honors courses taken prior to the senior year count toward this total.
- Honors courses *must* include Honors+ English 12 AND Honors+ Chemistry OR Honors Physics
- In addition, students must have completed or be enrolled in one credit of a Language other than English.

Some courses outside our curriculum may be substituted provided Advisor pre-approval has been obtained in writing prior to the start of the semester of intended enrollment.

Should a member earn a semester grade lower than a C in ANY course, the Faculty Council will automatically consider dismissal from NHS. Under such circumstances, the member may request a hearing with the Faculty Council.

Students will be introduced to various painting techniques and methods. Mediums will include watercolor, tempera and acrylic paint. Artists' styles will be explored in search of the students' personal style. Individuality and creativity are encouraged.

ARTS – VISUAL ARTS

ART I

Prerequisite: None

Grades: 9-12

0.5 credit/semester

Students will explore various techniques and areas of art with an emphasis on basic skills. Individual ability levels will be developed through exercises dealing with drawing, painting, collage and clay. Students begin learning about specific art techniques and the elements of design, principles of design, and art styles. Students will keep a sketchbook and explore the creative process.

MULTIMEDIA

Prerequisite: C- or better in Art I or consent of the instructor

Grades: 9-12

0.5 credit/semester

In this exploratory class we will explore a variety of 2-dimensional media with a focus on painting, collage, fiber, craft and printmaking. Projects will range from realism to abstraction. Individuality and creativity are encouraged.

PAINTING

Prerequisite: C- or better in Art I or consent of the instructor

Grades: 9-12

0.5 credit/semester

CERAMICS CLAY

Prerequisite: C- or better in Art I or consent of the instructor

Grades: 9-12

0.5 credit/semester

This course deals with the basic hand-building ceramic techniques of coil, slab, pinch, and wheel thrown pottery. Students will create their own functional pottery and other small-sculpted forms. Glazing and firing are done under supervised instruction. Individuality and creativity are encouraged.

ARTS – PERFORMING ARTS

CHOIR

Prerequisite: Instructor approval

Grades: 9-12

1 credit/year

The choir performs various styles of music ranging from pop/jazz to classical. Proper vocal technique will be stressed; diction, articulation, vocal placement, tone quality, breath support and posture. Students will also be taught sight-reading skills. After school, performances are to be expected including Choral Festival competition. Members are able to participate in solo & ensemble festival. Attendance at all group performances is mandatory.

BAND

Prerequisite: Middle School Band or Instructor Permission

Grades: 9-12

1 credit/year

This class uses woodwind, brass and percussion instruments to explore the best in band and jazz music. Festivals, concerts and football games are included in the scope of performances.

ARTS – APPLIED ARTS

NOTE: The following classes can be taken repeatedly for credit. All courses also count for .5 VPAA, .5 Math, and .5 World Language. Construction will also count in place of 4th year English, 4th year Math, and a portion of Algebra II.

WOOD TECHNOLOGY I/II*

Prerequisite: *None*

Grades: *9-12* **1.00 credit/year**

This is a get acquainted to wood class. Hand tools, power tools, woods, costs, and overall knowledge of wood are covered. A spindle table will be constructed requiring the student to use each major piece of equipment in class. Projects will be made for activities. Participation in the Michigan Industrial Technology Education Society (MITES) competition in the spring is highly recommended.

In the second semester, students will design and construct a piece of furniture using modern techniques. Students will also be required to understand all machinery and safe working practices and techniques. Students must research and present lessons to their peers on woodworking techniques. Projects will be made for activities. Students may also be called upon to assist Woods I students at various times throughout the year. Participation in the MITES competition in the spring is highly recommended.

**Woods I and II are taken together. They run as cohorts for a full year.*

CABINET MAKING I (college credit option in 11-12)

Prerequisite: *Successful completion of Wood Tech I/II*

Grades: *9-12* **0.5 credit/semester**

This class will go into woodworking in-depth with an emphasis on designing, drawing, planning and analyzing a major project. Construction of doors, drawers, and cabinets will be studied. Students must research and present lessons to their peers on woodworking techniques. Students may

also be called upon to assist Woods I/II students at various times throughout the year. Projects will be made for activities. Participation in the MITES competition in the spring is highly recommended.

CABINET MAKING II

Prerequisite: *Successful completion of Wood Tech I/II and Cabinet Making I*

Grades: *9-12* **0.5 credit/semester**

This class is a continuation of Cabinet Making I. It is designed with the intent of creating a major CABINET RELATED project to enter into the MITES competition in the spring (This is a course requirement). This class will go into woodworking in-depth with an emphasis on designing, drawing, planning and analyzing a major project. Construction of doors, drawers, and cabinets will be studied. Students must research and present lessons to their peers on woodworking techniques. Students may also be called upon to assist Woods I/II and Cabinet Making I students at various times throughout the year. Projects will be made for activities.

ADVANCED WOOD TECHNOLOGY

Prerequisite: *Successful completion of Wood Tech /II*

Grades: *9-12* **0.5 credit/semester**

This class is designed with the intent of creating a major project of any type to enter into the MITES competition in the spring (This is a course requirement). This class will go into woodworking in-depth with an emphasis on designing, drawing, planning and analyzing a major project. Students must research and present lessons to their peers on woodworking techniques. This class is for the seriously minded woodworking student. Each student will be expected to complete a major project.

METAL TECHNOLOGY I (College credit option in 11-12, AWS SENSE Level I welding cert qualified in 10-12)

Prerequisite: *None*

Grades: *9-12* **0.5 credit/semester**

All Metals courses are certified through the American Welding Society (AWS). This school is also accredited as an AWS SENSE Educational Institution. This is a student driven class aimed at the possibility of SENSE

Level I Welding Certification at the end of a student's second year of study. Certification is not required for this course. The emphasis of this course is welding, although students will also be given the opportunity to explore different areas in metal technology including casting, welding, Mig, ARC and Torch welding, sheet metal, hand and machine tool usage, and basic shop terms and safety. General project planning and careers related to metals will also be studied.

METAL TECHNOLOGY II

(College credit option in 11-12, AWS SENSE Level I welding cert qualified in 10-12)

Prerequisite: *Successful completion of Metal Technology I*

Grades: *9-12* *0.5 credit/semester*

All Metals courses are certified through the American Welding Society (AWS). This school is also accredited as an AWS SENSE Educational Institution. This is a student driven class aimed at the possibility of SENSE Level I Welding Certification at the end of a student's second year of study. Certification is not required for this course. The emphasis of this course is welding although students not interested in certification will also be given the opportunity to plan and create their own project. Safety is emphasized in this course.

CONSTRUCTION TECHNOLOGY (College credit option)

Prerequisite: *None*

Grades: *9-12* *0.5 credit/semester*

Students may attend for one or two years. The full two-year experience provides students with all of the following Content Areas: • Building codes and print reading • Carpentry skills • Safe use of hand and power tools • Material selection, layout, preparation and fabrication • Applying countertops and ceramic tile • Applying siding • Door hanging and trimming • Hanging wallboard • Installing windows • Painting and wood finishing • Roofing and Residential framing

CAD I (College credit option in 11-12)

Prerequisite: *None*

Grades: *9-12* *0.5 credit/semester*

This course introduces computer aided drafting (CAD) and examines the hardware that makes up a CAD workstation. It also covers the operation

system that enables the equipment to function as a unit. The course shows how to use AutoCAD to set up drawings and add lines circles, arcs, other shapes, geometric constructions, and text. Students will use display and editing techniques as well as obtain information about their drawings.

CAD II

Prerequisite: *Successful completion of CAD I*

Grades: *9-12* *0.5 credit/semester*

A continuation of CAD I which will extend skills in the use of AutoCAD and builds efficiency in the production of CAD drawings. Developing two dimensional multi view drawings fully noted, sectioned, and dimensioned. Composing a bill of materials and complete working drawings is also required. Students will also be introduced to three-dimensional drawings.

CAD III

Prerequisite: *Successful completion of CAD I & II*

Grades: *9-12* *0.5 credit/semester*

Students will continue their exploration of Computer Aided Drafting in a third year with AutoCAD Inventor. This is a solid modeling, three-dimensional program. This program is widely used in industry and students will learn to produce 2-d working drawings from solid models, moving assembly drawings from solid models. Students will be taught how to use this new program and be required to use prior knowledge to create three-dimensional parts as a part of an assembly.

ARCHITECTURE I (College credit option in 11-12)

Prerequisite: *None*

Grades: *9-12* *0.5 credit/semester*

This class will teach the skills required to draw and design various types of dwellings. Students will receive basic instruction in preparing working architectural drawings. They will use these skills for drawing plans of their own.

MECHANICAL DRAFTING/BOARD DRAFTING I

(College credit option in 11-12)

Prerequisite: *None*

Grades: *9-12* *0.5 credit/semester*

This course introduces the student to the basics of technical drawing. Students will learn these fundamentals by sketching, drawing, and using mechanical drafting techniques. This course will provide some insight into the career opportunities that require drafting skills.

ARTS – APPLIED ARTS

BROADCASTING & DIGITAL MEDIA

Prerequisite: *Permission of Instructor*

Grades: *9-12* *0.5 credit/semester*

The focus of this class will be the use of digital photo, video, and to a limited extent, audio production tools (editing computers and software) in the production of live-streamed shows. The students will participate in multiple capacities in various media pieces (commercials, public service announcements, show segments). We will produce live sports, non-sports, and news productions. The students will also master the use of television equipment including but not limited to broadcast computers, switchers, instant replay machines, audio and video mixers. Developing and producing a podcast will also be a unit of study. We will also be working toward certification in widely used Adobe photo, video, and motion graphics applications. Drone certification and public address certifications will also be offered. All students are required to work on seven live events during the semester (not including the Friday Show). There may be a \$20 class fee for a media ID and other media expenses such as flash drives and crew shirts.

YEARBOOK

Prerequisite: *Permission required.*

Grades: *9-12* *1 credit/year*

The students will learn proper techniques and procedures for layout and production of the yearbook, using this knowledge to design and submit pages for the yearbook. Students will organize and participate in fundraising, marketing and book sales through small business operation.

BUSINESS/COMPUTERS/CAREER PREPARATION

BUSINESS & TECHNOLOGY BASICS

Prerequisite: *None*

Grades: *9-12* *0.5 credit/semester*

This course is designed to improve students' knowledge of computers and teach students to effectively use Microsoft Word, Excel, Access and PowerPoint. This course will also teach students how to use advanced features of a computer and the Internet. The computer skills taught along with the business and career knowledge that will be gained in this course makes it a great addition to any student's schedule.

BUSINESS MARKETING

Prerequisite: *None*

Grade: *9-12* *0.5 credit/semester*

The purpose of this class is to present the student with a solid foundation about what business is, how it operates, how it is managed, and how it is financed. Students will also become acquainted with topics such as business ownership, marketing, retailing and salesmanship. Anyone who is planning to work in business or own their own business should consider this class.

VIRTUAL ENTERPRISE I*

Prerequisite: *None*

Grades: *10-12* *1 credit/year*

This class is highly recommended for any student interested in business related careers. Students will create and manage virtual businesses from product development, production and distribution to marketing, sales, human resources, accounting/finance and web design. VEI companies offer products and services from banking, insurance, and technology to publishing, advertising, app creation, tourism, and fashion. Students may choose to work in Administration, Accounting/Finance, Sales, Marketing, Human Resources and IT. Students select a CEO and managers who oversee each department and work in teams to make decisions to complete their tasks in support of company goals and objectives, learning from both their successes and mistakes.

May be used as Math-related credit in the senior year.

***Second year students in leadership roles may earn honors credit.**

CAREER PREP SEMINAR

Prerequisite: *None*
Grade: *10-12*

0.5 credit/semester

This class will prepare students for state mandated testing and the workforce. In addition, there will be skill-building activities in a variety of life long education areas. These will focus on what each student will do after high school including resume development, interview and employability skills.

FINANCIAL MATH

Prerequisite: *None*
Grades: *11-12*

0.5 credit/semester

Students will learn to keep personal financial records, prepare and compare a budget with actual expenditures, and learn of various banking activities such as checking and savings accounts, installment loans, credit cards and charge accounts. The class will culminate with a simulation giving students the opportunity to write checks, keep records and budgets for people in different stages of life. This information will be used in the student's everyday life upon graduation. **May be used as a Math-related course in the senior year.**

CAREERS and PERSONAL FINANCE

Prerequisite: *Required*
Grade: *8*

0.5 credit/semester

Students will engage in career exploration activities including: researching various career options, identifying personal skills that relate to career interests, and completing specified portions of the Education Development Plan.

Students will also learn key personal finance concepts including: earning income, buying goods and services, budgeting and saving, using credit, financial investing, protecting and insuring, and paying taxes.

SENIOR SEMINAR*

Prerequisite: *Required*
Grade: *12*

0.5 credit/semester

In this class, the student will have the opportunity to explore ideas and develop skills and competencies that will help the student succeed in a

career. The student will develop and complete the EDP process including the senior exit presentation using various software programs.
THIS CLASS IS REQUIRED FOR SENIORS.

**** Marked courses meet the job-related course requirement for all Work Study positions.***

ENGLISH

REQUIREMENTS

English 9.....	1 credit
English 10.....	1 credit
English 11.....	1 credit
English Elective.....	1 credit

ENGLISH 9

Prerequisite: *None*
Grades: *9-12*

1 credit/year

The goal for English Language Arts Grade 9 is to build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complex ideas, texts, and tasks. In English 9, students will be introduced to various classic and contemporary, narrative and informational texts. Emphasis will be placed on appreciation of literature through writing and speech, broadening the student's knowledge of literary analysis and providing a study of basic skills necessary for a successful high school experience. The components of this

class include listening, reading, writing, speaking, learning, analyzing, and applying. Speeches, literary analysis, research papers, and argument will make up major assignments for the course.

ENGLISH 10

Prerequisite: *Credit earned for English 9*
Grades: *10-12* *1 credit/year*

The goal for English Language Arts 10 is to continue to build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complex ideas, texts, and tasks. In English 10, students will add to the list of various genres of classic and contemporary, narrative and informational texts. This course will build on the skills learned in English 9. Moving beyond the concept of the self, students will connect with and respond to texts through critical response and stance. The components of this class include: listening, reading, writing, speaking, learning, analyzing, and applying. Speeches, literary analysis, a research paper, and argument will make up major assignments for the course.

ENGLISH 11

Prerequisite: *Credit earned for English 10*
Grades: *11-12* *1 credit/year*

The goal for English Language Arts 11 is to continue to build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complete ideas, texts, and tasks. In English 11, students will add to the list of various genres of classic and contemporary, narrative and informational texts. This course will build upon the skills from English 9 and English 10. The components of this class include: listening, reading, writing, speaking, learning, analyzing, and applying. Speeches, literary analysis, a research paper, and argument will make up major assignments for the course.

HONORS+ English 11

Prerequisite: *B- in English 10 or Teacher Recommendation*
Grades: *11-12* *1 credit/year*

Corresponding CLEP Test: American Literature

Course Description:

This course will examine American Literature and will study works of prose, poetry, drama, fiction and nonfiction in relation to the historical and literary period each represents. Students will be expected to read a wide variety of American authors and understand the content/background as it relates to each period of literature. Students will be required to analyze and interpret poetry, fiction, and non-fiction using the specialized terminology of the course. Students will take a deep investigation of writer's craft and learn to analyze multiple genres of texts requiring thinking beyond a literal level. Students taking this course must be prepared for additional reading outside of class, regular homework assignments, and a rigorous workload. Passing credit in this course will require completion of all formal writing assignments and proof of independent reading in addition to assigned class readings.

*** Enrollment in this Honors class will require all students to take the corresponding CLEP test. A passing score on the CLEP test will result in college credit at participating colleges and universities.*

ENGLISH 12

Prerequisite: *Credit earned for English 11*
Grade: *12* *1 credit/year*

The goal for English Language Arts 12 is to refine, apply, and extend the solid foundation of knowledge, skills, and strategies developed in English Language Arts 9 through 11. Students will be introduced to and encouraged to appreciate a broad spectrum of writers presented in thematic units. These writers will be studied for their contributions multiple genres. Twelfth graders will synthesize information, ideas, and themes to understand the past, the present, and to think innovatively about the future. The components of this class include listening, reading, writing, speaking,

learning, analyzing, and applying. Speeches and several papers including research are major assignments of the course

HONORS + English 12

Prerequisite: *B- In English 11, Honors+ English 11 or Teacher*

Recommendation

Grades: 11-12

1 credit/year

Corresponding CLEP Test: College Composition

Course Description:

Students will cover the conventions of Standard Written English, revision skills, ability to use source materials, and rhetorical analysis. Students will gain a familiarity with research and reference skills. Assignments will require students to strengthen their academic writing. The course will require students to showcase research writing in MLA format and then adapt this method to include other formats such as APA and Chicago. Students will also be required to read the works of various published authors in a wide range of subject matter. Students taking this course must be prepared for regular homework assignments and a rigorous workload. This course will prepare students for multiple writing tasks college courses require. Passing credit for this course will require completion of all formal writing assignments.

*** Enrollment in this Honors class will require all students to take the corresponding CLEP test. A passing score on the CLEP test will result in college credit at participating colleges and universities.*

English Language Development I

Prerequisite: *High school student enrolled in the district, scoring at a WIDA level of 1 or 2*

Grades: 9-12

0.5 credit/semester

This course is specifically designed for high school English Learner newcomers demonstrating the need for WIDA Level I English Language Development instruction. Placement into level 1 is demonstrated via the student’s most recent WIDA English language proficiency assessment. Identified students can take ELD 1 for up to 1 credit (0.5/semester) as part of their regular class schedule. Students will work to enhance English speaking, reading, listening, and writing skills.

English Language Development II

Prerequisite: *High school student enrolled in the district, scoring at a WIDA level of 2*

Grades: 9-12

0.5 credit/semester

This course is specifically designed for high school English Learner newcomers demonstrating the need for WIDA Level II English Language Development instruction. Placement into level 2 is demonstrated via successful ELD I course completion and/or the student’s most recent WIDA English language proficiency assessment. Identified students can take ELD II for up to 1 credit (0.5/semester) as part of their regular class schedule. Students will work to enhance English speaking, reading, listening, and writing skills.

MATHEMATICS

REQUIREMENTS

Algebra I.....1 credit

Geometry..... 1 credit

Algebra II..... 1 credit

Senior Year Math Elective.....½ credit

ALGEBRA I

Grades: 9-12

1 credit/year

Concepts studied are multiplication in algebra, linear sentences, algebraic division, slopes and lines, exponents and powers, polynomials, systems, parabolas, quadratic equations, sequences, and series.

GEOMETRY

Prerequisite: *Credit earned for Algebra I*

Grades: 9-12

1 credit/year

This course focuses on the integration of synthetic, coordinate and transformation approaches to Geometry. It includes an introduction to proofs and an extension of algebra. Concepts studied are points and lines, angles, polygons, transformations and congruence, measurement formulas, three dimensional figures, surface area and volumes, coordinate geometry and similarity.

ALGEBRA II

Prerequisite: *Credit earned for Geometry*
Grades: *9-12 1 credit/year*

In this course, students expand their knowledge and depth of understanding of algebraic concepts. Concepts studied are the language of algebra, variations and graphs, linear relations, matrices, systems, parabolas and quadratic equations, polynomials, functions and their transformations, and powers and roots.

ALGEBRA II: Data Science

Prerequisite: *Credit earned for Geometry*
Grades: *9-12 1 credit/year*

This curriculum will introduce students to the main ideas in data science while expanding their knowledge and depth of understanding of algebraic concepts. Concepts studied are the language of algebra, variations and graphs, linear relations, matrices, systems, parabolas and quadratic equations, polynomials, functions and their transformations, and powers and roots. Students will learn to be data explorers in project-based units, through which they will develop their understanding of data analysis, sampling, correlation/causation, bias and uncertainty, probability, modeling with data, making and evaluating data-based arguments, the power of data in society, and more.

HONORS+ PRE CALCULUS

Prerequisite: *Credit earned for Algebra II*
Grades: *11-12 1 credit/year*

Corresponding CLEP Test: College Algebra

Course Description:

This course will prepare students for the rigors of Calculus. Topics covered include various functions and their transformation, solving equations, and

other advanced algebra topics. Trigonometry will also be covered during the year. These topics will include trigonometric functions, transformations, trigonometric identities, and solving trigonometric equations. The course will conclude with an introduction to Calculus by exploring limits and the basics of the derivative. Students will be required to use a graphing calculator.

***Enrollment in this Honors Class WILL require all students to take the corresponding CLEP Test. A passing score on the CLEP Test will result in college credit at participating colleges and universities.*

HONORS+ CALCULUS

Prerequisite: *C- in Pre-Calculus or Teacher Recommendation*
Grades: *11-12 1 credit/year*

Corresponding CLEP Test: Calculus

Course Description:

Calculus is the final mathematics course recommended for students pursuing an education in STEM fields. Concepts studied are as follows: prerequisites, limits and continuity, derivatives and their application, and finally the integral and its applications. Students will be required to use a graphing calculator.

***Enrollment in this Honors Class WILL require all students to take the corresponding CLEP Test. A passing score on the CLEP Test will result in college credit at participating colleges and universities.*

PHYSICAL EDUCATION

REQUIREMENTS

- Basic Health0.5 credit
- Basic Physical Education.....0.5 credit

BASIC HEALTH

Prerequisite: None

Grades: 9-12 0.5 credit/semester

This course satisfies the state requirement for health and is *required for graduation*. The curriculum for this course includes drugs & alcohol, tobacco, HIV/AIDS, violence and nutrition.

NOTE: The following PE classes can be taken repeatedly for credit.

BASIC PHYSICAL EDUCATION

Prerequisite: None

Grades: 9-12 0.5 credit/semester

This component meets the state requirement for physical education and includes the President’s Physical Test. *This course is required for graduation.*

LIFETIME SPORTS

Prerequisite: None

Grades: 9-12 0.5 credit/semester

Fundamental skills in selected lifelong sports will be taught in this class. Sports include badminton, bowling, tennis, golf, archery, shuffleboard, horseshoes, cross country skiing, paddleball, table tennis and other recreational activities. A bowling fee will be charged.

TEAM SPORTS

Prerequisite: None

Grades: 9-12 0.5 credit/semester

Students will demonstrate skills in selected seasonal team sports: flag football, soccer, speedball, basketball, volleyball, softball and others.

INTRODUCTION TO WEIGHTLIFTING

Prerequisite: None

Grades: 9-12 0.5 credit/semester

This course will emphasize proper lifting techniques, stretching, spotting, and all safety aspects of lifting. Various programs will be covered in class: Circuit Training, High Endurance, Power, Maintenance, and Body Building.

WEIGHT LIFTING/CONDITIONING

Prerequisite: Credit earned for Intro to Weightlifting

Grades: 10-12 0.5 credit/semester

This course will be divided: weight lifting 3 days a week and conditioning activities 2 days a week. Weight lifting will emphasize power-lifting routines to increase bulk, strength and speed. Conditioning activities will emphasize endurance: running, plyometrics, aerobics, and lap swimming.

SCIENCE

REQUIREMENTS

Integrated Science I.....1 credit

Integrated Science II.....1 credit

Integrated Science III or Honors+ Chemistry or Honors Physics.....1 credit

INTEGRATED SCIENCE I

Prerequisite: None

Grade: 9-12 1 credit/year

This course will focus on the ENTRY LEVEL Michigan Science Standards for Earth Science, Life Science, and Physical Science. Lecture and labs will reinforce these topics. *This course is required for all freshmen.*

INTEGRATED SCIENCE II

Prerequisite: Credit earned for Integrated Science I

Grade: 10-12 1 credit/year

This course will be a continuation of the Michigan Science Standards for Earth Science, Life Science, and Physical Science. Lecture and labs will reinforce these topics. *THIS COURSE IS REQUIRED FOR GRADUATION.*

INTEGRATED SCIENCE III

Prerequisite: *Credit earned for Integrated Science II*

Grade: *11-12 1 credit/year*

This course will be a continuation of the Michigan Science Standards for Earth Science, Life Science, and Physical Science. Lecture and labs will reinforce these topics. ***Fulfills 3rd Science graduation requirement.***

HONORS+ CHEMISTRY

Prerequisite: *C in Integrated Science II AND Algebra II or Geometry*

Grades: *11-12 1 credit/year*

Corresponding CLEP Test: Chemistry

Course Description:

This course meets the course requirements for National Honor Society. It is a first year course designed to prepare students for science in college and includes a significant amount of math applications. Topics will include significant figures, chemical and physical changes, heat transfer, the history of the Atomic Theory, the Quantum Theory of Matter, the Kinetic Theory of Matter, advanced naming, moles and nuclear power.

Fulfills 3rd Science graduation requirement.

***Enrollment in this Honors Class WILL require all students to take the corresponding CLEP Test. A passing score on the CLEP Test will result in college credit at participating colleges and universities.*

HONORS PHYSICS

Prerequisite: *C in Integrated Science II AND Algebra II or Geometry*

Grades: *11-12 1 credit/year*

This course meets the course requirements for National Honor Society. This course is designed to prepare students for science in college and includes a significant focus on the use of mathematics in Physics. Topics will include Newtonian Physics, Energy, E/M and light, as well as modern topics in Physics. ***Fulfills 3rd Science graduation requirement.***

HONORS ANATOMY AND PHYSIOLOGY

Prerequisite: *C in Honors+ Chemistry or Honors Physics*

Grade: *12 1 credit/year*

This class will offer the students an opportunity to study the human body. The focus will be on the parts and functions of the various systems. Some are enhanced with the study of cell variations, while other areas will emphasize organ structure and function. Special attention will be given to the techniques of new research, updates on health issues, and the general care of the body. Labs, videos, special articles, and independent research will supplement the textbook. (This course is recommended for Seniors interested in Biology or the Medical Field.)

FORENSIC SCIENCE A: Evidence Analysis

Prerequisite: *Credit earned in Integrated Science III, Honors Chemistry or Honors Physics*

Grades: *12 0.5 credit/semester*

Students will use common forensic techniques to analyze hypothetical crime scenes. Students will use observations and critical thinking skills to analyze fingerprints, bloodstain patterns, firearm markings, hair and fiber samples, ink samples, plastics, glass, DNA and more.

FORENSIC SCIENCE B: Crime Scene Investigation

Prerequisite: *Credit earned in Forensic Science A*

Grades: *12 0.5 credit/semester*

Students will learn how to properly process a crime scene including field sketches, note taking, witness interviews and evidence collection. Then students will work in teams to process a mock homicide. After interviewing witnesses and analyzing evidence, students will arrest their suspect and develop their case. At the end of the semester, students will carry out a mock trial.

SOCIAL STUDIES

REQUIREMENTS

U.S. History.....	1 credit
World History.....	1 credit
Civics.....	0.5 credit
Economics.....	0.5 credit

US HISTORY & GEOGRAPHY

Prerequisite: None
Grades: 9-12 1 credit/year

Topics will include: the Progressive Movement, Gilded Age, WWI, Roaring 20's, The Great Depression, causes and effects of WWII, the Korean War, Cold War, Turbulence of the 1960's and Vietnam War, changes of the 70's, the Reagan Era, the Bush years, Clinton and the 90's, the Millennium and the G.W. Bush presidency.

WORLD HISTORY & GEOGRAPHY

Prerequisite: None
Grades: 10-12 1 credit/year

This course will be a regional study of the history of the world after the 300s. The focus will be the Western World following the fall of Rome, the Middle East with the rise of Islam, and the colonization of civilizations in the Americas, Africa, and Asia. It will also examine the beginning of modern nations and their growth process to recent times.

CIVICS

Prerequisite: None
Grades: 11-12 0.5 credit/semester

Students will learn about U.S. government, its foundations, the three main branches and our laws. Exploration of other types of governments in the

world today and global interdependence is included. ***This course is required for graduation.***

ECONOMICS

Prerequisite: None
Grades: 11-12 0.5 credit/semester

This course will concentrate on basic economic concepts including economic systems, the laws of supply and demand, market structures and global economics. ***This course is required for graduation.***

AMERICA IN THE 21ST CENTURY

Prerequisite: 3.0 GPA
Grades: 11-12 0.5 credit/semester

This course will focus on current issues confronting the United States in this century. It will also delve into the history of current events including the wars in Iraq and Afghanistan, the economy, 9/11 and current domestic concerns. This course may be taken for honors credit. Arrangements must be made with the teacher at the beginning of the semester.

U.S. HISTORY: The 1960's 0.5 credit/trimester

Prerequisite: None
Grades: 11-12

This course will focus on the phenomenon of the 1960's: from the Civil Rights Movement to the war in Vietnam to the Space Race to student unrest and the Hippies. This course may be taken for honors credit. Arrangements must be made with the teacher at the beginning of the semester.

HONORS WORLD WAR II: An In-depth Study

Prerequisite: 3.0 GPA
Grades: 11-12 0.5 credit/semester

This course will examine the Second World War in detail. Topics of discussion will include events leading up to war, the bombing of Pearl Harbor, D-Day, the Holocaust, the Pacific Theatre, the development and

role of the atomic bomb, roles of women during the war, the shaping of postwar America, and the emergence of the Cold War. Students will take part in analyzing the accuracy of various WWII films; conduct interviews with WWII veterans; examine different cultural points of view concerning the war; and complete other projects as time permits.

HONORS PSYCHOLOGY

Prerequisite: 3.0 GPA or Teacher recommendation
Grades: 11-12 1 credit/year

This course is a survey course in psychology and sociology. The goal of the course is to expose students to terms and concepts that will be faced in these subjects at the college freshman level.

HONORS+ U.S. HISTORY: 1865 - Present

Prerequisite: 3.0 GPA
Grades: 11-12 1 credit/year

Corresponding CLEP Test: History of the United States II

Course Description:

This course will examine the history of the United States from 1865 to present (with emphasis on 1915 to present). Topical specifications include political institutions and public policy, social developments, economic developments, cultural and intellectual developments, diplomacy and international relations. Students will participate in a deep investigation of urbanization and industrialization, causes, effects and impact of major world wars, major movements and individual figures in the history of American arts and culture, and the expansion of individual rights and civil liberties.

***Enrollment in this Honors Class WILL require all students to take the corresponding CLEP Test. A passing score on the CLEP Test will result in college credit at participating colleges and universities.*

WORLD LANGUAGE

The State Board of Education expects all students to complete two credits of a world language other than English in grades 9-12 prior to

graduation; or demonstrate a two-year equivalent learning experience in grades K-8. Students may partially or fully fulfill 1 credit by completing a formal career and technical education curriculum or visual or performing arts instruction that is in addition to the requirement.

SPANISH I

Prerequisite: None
Grades: 9-12 1 credit/year

The first year Spanish course includes learning a basic vocabulary; including numbers, names, telling time, weather, learning how to use Spanish verbs, spelling, reading, and writing in the Spanish language.

SPANISH II

Prerequisite: C in Spanish I or Teacher recommendation
Grades: 9-12 1 credit/year

The second year course includes reading stories in Spanish, learning advanced grammar, adding vocabulary, continuing to develop reading, writing and conversational skills.

HONORS+ SPANISH III/IV

Prerequisite: C in Spanish II or Teacher recommendation
Grades: 10-12 1 credit/year

Corresponding CLEP Test: Spanish Language: Levels 1 and 2

Course Description:

The third and fourth year courses include using basic vocabulary and grammar given in the first two years, writing short essays, reading short stories, and conversational practice. If passed with a C or better, each course is worth ½ honors credit.

It is highly recommended that students take at least 2 years of the same world language before attending a 4-year college or university program.

***Enrollment in this Honors Class WILL require all students to take the corresponding CLEP Test. A passing score on the CLEP Test will result in college credit at participating colleges and universities.*

ADDITIONAL COURSES

ACCOUNTING

Prerequisite: *Completion of Algebra I and Business & Tech Basics with a C or better*

Grades: 10-12 *1 credit/year*

The course will cover the basic structure, concepts, principles and correct use of accounting terminology. The practical aspect of accounting is emphasized through recording, classifying and summarizing the financial information that flows within a business enterprise. The accounting cycle is examined along with such areas as sales, purchases, cash, receivables and payroll.

CADET TEACHER

Prerequisite: *3.0 gpa in subject area
Teacher/Counselor/Administrator Recommendation
ONLY*

Grades: 11-12 *0.5 credit/semester*

Seniors may Cadet Teach upon completion of the following prerequisites:

- 1.) EDP must reflect interest in a career in teaching;
- 2.) Have a B average in the subject area of teaching interest.

Upon verification of the prerequisites and **supervising instructor agreement**, the senior shall be *considered* for a cadet teacher position.

CYBERSECURITY

1 credit/year

Prerequisite: *Completion of Algebra I and Geometry with a C or better*

Grades: 9-12

This course will provide a foundational understanding of cybersecurity and how it relates to information and network security. The following concepts may be introduced: introduction to hardware and software, ethical hacking, law and regulations, penetration testing, digital forensics, network forensics, certification preparation, computer science, website design.

DRONE AVIATION

Prerequisite: *Ability to read/interpret technical manuals, graphs and maps. Genuine interest in drone aviation as a potential career pathway.*

Grades: 10-12 *1 credit/year*

Students will be introduced to the world of Unmanned Aerial Systems. This course takes a look at everything from current Unmanned Aircraft Systems to future civilian applications. In addition to learning about this new industry, students will be introduced to flying remotely piloted aircraft and operating entry level Unmanned Aerial Vehicles. Content areas in this program include: weather, air space, aerodynamics, aircraft systems, performance charts, physics, flight planning, Air Traffic Controller communications and Federal Aviation Administration (FAA regulations). In the ground school program, you will hear from guest speakers in a variety of roles in the industry and potentially attend field trips for hands-on experience.

MECHATRONICS

Prerequisite: *Completion of Algebra I and Geometry with a C or better. Genuine interest in advanced manufacturing as a potential career pathway.*

Grades: 11-12 *1 credit/year*

Within a state-of-the-art work space, students will be immersed in the many disciplines involved in advanced manufacturing pathway. This program offers students experience and credentials in the operation of safety best practices, technical communication, employability skills and teamwork, technology usage, pneumatic and hydraulic best practices, shop based mathematics, precision measurement, troubleshooting, blueprint reading, power tool usage and maintenance, theory of machine shop practices, programming, Computer Aided Design (CAD) software, VEX robotics equipment, robotic programming and control, robotic operations, programmable logic controllers (PLC), computer numerical control (CNC), and equipment usage and robotic optical sensing. Students completing the Mechatronics career pathway will have the opportunity to earn multiple industry recognized credentials that will allow them to enter the workforce prepared.

Learning strategies will include computer-based lessons use of high-tech trainers and equipment, hands on experiences, industry experts and site visits. Most importantly, students will participate in student created projects that give them an opportunity to apply new learning to solve challenges in innovative ways. Students can expect to improve their understanding of STEM based skills, 21st Century skills such as critical thinking, collaboration, communication and student leadership.

DUAL ENROLLMENT

State of Michigan law allows high school students to attend college while attending high school, providing the student meets the requirements established by the law and the District. Students may take only academic college classes and earn both high school and college credit with advanced approval if:

- The student has not failed a class
- The student has completed prior grade level graduation requirements
- The student must be concurrently enrolled at the high school in the highest dual enrolled related subject area course available at the student's grade level
- The student has taken all sections of the PSAT, SAT, ACT, MME, M-STEP, COMPASS, or ACCUPLACER exam and has qualifying scores
- The student provides their own transportation
- The student is able to pay for their own textbooks

The process begins in the counseling office with the dual enrollment packet. Counselor and principal signatures are required for approval.

*Any student who does not receive college credit for a course **must repay the school district** any funds that were expended for the course that were not already refunded by the eligible postsecondary institution. If the student does not repay the school district, they will not be allowed to attend school

COURSE REGISTRATION

Students will be entering their course requests for the coming school year online through StudentVUE. Students can use any computer that has an internet connection – at the high school, computers are available for use in the library or the Career Center after class. Students who would like to change their course requests after this date will need to wait until the schedule is completed and then can discuss the availability of the course to which they would like to change with their counselor.

Directions to enter your course requests

1. Go to this website: <https://sis.geneseesisd.org/mont/> and use school dances, obtain a parking permit the following school year, dual enroll in another course **or participate in graduation** activities. A student may take dual enrolled courses (including ones that were previously taken unsuccessfully) if the funds are repaid and if they still meet all other eligibility requirements.

2. Click the blue [Course Request] button on the left side of the screen.
3. Select your courses from a category and click [Add Course]. You can remove a selected course by clicking the box next to the course name. You can select more than one course in a category (2 math classes for example) and you will have categories with no courses.
4. You are responsible for making sure you register for required classes. If you are not sure what is required, review your course history on StudentVUE and your transcript.
5. Count your credits—you must have courses equal to 6 credits each year.
6. When you have updated your requests, do not lock courses. There is no need to save, just click [Log O

NON DISCRIMINATION POLICY

It is the policy of the Montrose Community Schools that no discriminatory practices because of sex, race, color, national origin or handicap, be allowed in providing instructional opportunities, job placement assistance, employment practices and policies governing student conduct and attendance. Any person suspecting discriminatory practice should contact Montrose Community Schools, Dr. Linden Moore at 300 Nanita Drive, P.O. Box 3129, Montrose, MI 48457 or by phone at 810-591-8811