

Graduation Requirements

A student must complete a minimum of 22 credits of high school work in order to graduate from Metamora High School. To graduate in four years, a student should strive to earn a minimum 5.5 credits each year. Credits for graduation are required in the following courses and subject areas:

<i>English</i>	<i>8 Semesters</i>
<i>Mathematics</i>	<i>6 Semesters</i>
<i>Science</i>	<i>6 Semesters</i>
<i>Social Studies</i>	<i>6 Semesters</i>
<i>Fine Arts</i>	<i>2 Semesters</i>
<i>Vocational Education</i>	<i>2 Semesters</i>
<i>World Languages</i>	<i>4 Semesters</i>
<i>or</i>	
<i>Vocational Education</i>	<i>4 additional semesters</i>
<i>Driver's Education</i>	<i>½ Semester</i>
<i>Consumer Education</i>	<i>1 Semester</i>
<i>Health</i>	<i>1 Semester</i>
<i>PE</i>	<i>7 Semesters</i>
<i>Strategic Reading</i>	<i>2 Semesters – unless proficiency out of class</i>

MTHS Four Year Plan: Additional Electives required to reach 22 credits

General Required Classes	Freshman Year		Sophomore Year		Junior Year		Senior Year	
	Sem. 1	Sem. 2	Sem. 1	Sem. 2	Sem. 1	Sem. 2	Sem. 1	Sem. 2
English	English I	English I	English II	English II	English III American Lit British Lit Hon Am Lit Hon Brit Lit	English III American Lit British Lit Hon Am Lit Hon Brit Lit	Sr Eng TD Sr Eng SD Hon Sr Eng	Sr Eng TD Sr Eng SD Hon Sr Eng Hon Eng AP
Strategic Reading	Strategic Reading (Placed by Explore test score)	Strategic Reading (Placed by Explore test score)	Enriched Reading (Placed through teacher recommendation)	Enriched Reading (Placed through teacher recommendation)				
Math	Alg I EnrAlg I Honors Geom I	Alg I EnrAlg I Honors Geom I	Geom Honors Geom Hon Alg II	Geom Hon. Geom Hon Alg II	Alg II Hon. Alg II Hon Pre Calc Hon AP Stats Hon AP Calc AB	Alg II Hon. Alg II Hon Pre Calc Hon AP Stats Hon AP Calc AB	Math Electives Trigonometry Discrete Math Hon AP Calc BC	Math Electives Trigonometry Discrete Math Hon AP Calc BC
Science	Gen Science Biology I Honors Biology	Gen Science Biology I Honors Biology	Biology I Chemistry I Honors Chem I	Biology I Chemistry I Honors Chem I	Chem I Integrated Sci. Physics I Hon Physics I	Chem I Integrated Sci. Physics I Hon Physics I	Science Electives Hon Physics II Honors Chem II Honors A/P Physics Calc	Science Electives Hon Physics II Honors Chem II Honors A/P Physics Calc
Social Studies	Comp/US Studies	Comp/US Studies	World History or AP Hon World History	World History or AP Honors World History	US History or AP Honors US History	US History or AP Honors US History	Social Studies Electives Contemporary Issues Honors Psychology Human Relations	Social Studies Electives Contemporary Issues Honors Psychology Human Relations
PE, Health, Dr. Ed.	Health or PE or Dr. Ed.	Health or PE or Dr. Ed.	PE or Team PE	PE or Team PE	PE or Team PE	PE or Team PE	PE or Team PE	PE or Team PE
Consumer Ed.	1 Semester only / May be taken junior or senior year							
Fine Arts	2 Semesters							
Technical Ed./ World Lang	Technical Ed. 2 Semesters/World Languages 4 Semesters or 4 more Technical Ed. Semesters							

Honors Classes Offered at MTHS by Department

English

Honors English I, Honors English II, Honors American Literature I, Honors American Literature II, Honors Humanities, Honors Senior English I, Honors Senior English II, Honors Senior English II (AP)

Math

Honors Geometry, Honors Algebra II, Honors Pre-Calculus, Honors AP Statistics, Honors AP Calculus AB, Honors AP Calculus BC

Science

Honors Chemistry I, Honors Physics I, Honors Anatomy and Physiology, Honors Chemistry II, Honors Physics II, Honors Calculus-Based Physics

Social Studies

Honors AP World History, Honors AP U.S. History, Honors Psychology

World Languages

Honors German I, Honors German II, Honors German III, Honors German IV, Honors Spanish I, Honors Spanish II, Honors Spanish III, Honors Spanish IV

Career & Technical Ed.

Honors Introduction to Engineering Design, Honors Digital Electronics, Honors Principles of Engineering, Honors Civil Engineering & Architecture

Fine Arts

Honors Symphonic Band, Honors Wind Ensemble, Honors Marching Band

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METAMORA HIGH SCHOOL DUAL CREDIT COURSES

(Credit offered through Illinois Central College)

Honors Senior English I

Honors Senior English II

Welding

Honors Humanities

Music Theory 1

Music Theory 2

Honors Psychology

Metamora High School AP Courses

Honors AP Senior English

Honors AP Calculus AB

Honors AP Calculus BC

Honors AP Statistics

Honors AP U.S. History

Honors AP World History

GPA and Class Rank

The following chart provides the numerical equivalent to letter grades and how the weighted grade compares to a standard weighting. Our Honors and AP classes all use the honors calculations while all other classes utilize the standard calculation. The weighted GPA is based on a 4.0 scale with weights assigned to classes based on the difficulty of the class.

<i>Letter grade</i>	<i>Standard</i>	<i>AP/Honors</i>
<i>A+</i>	<i>4.33</i>	<i>4.83</i>
<i>A</i>	<i>4.0</i>	<i>4.5</i>
<i>A-</i>	<i>3.67</i>	<i>4.17</i>
<i>B+</i>	<i>3.33</i>	<i>3.83</i>
<i>B</i>	<i>3</i>	<i>3.5</i>
<i>B-</i>	<i>2.67</i>	<i>3.33</i>
<i>C+</i>	<i>2.33</i>	<i>2.83</i>
<i>C</i>	<i>2</i>	<i>2.5</i>
<i>C-</i>	<i>1.67</i>	<i>2.33</i>
<i>D+</i>	<i>1.33</i>	<i>1.83</i>
<i>D</i>	<i>1</i>	<i>1.5</i>
<i>D-</i>	<i>.67</i>	<i>1.33</i>

Class Rank: *The student with the highest GPA at the end of the 8th semester shall be ranked number 1, the second highest GPA will be ranked number 2, and so forth until all members of the class have been assigned a ranking. No points will be earned for classes that are passed with a “CR” but a “CR” will be placed on the transcript to indicate that the student has successfully completed the course.*

Pass Fail Option Agreement

Pass/Fail Option Agreement

2016-2017

Any junior or senior may take up to a total of one elective class per semester OR one elective double period class for one semester as PASS/FAIL per year with the following stipulations:

- 1. Courses designated as required for graduation, or courses designated by any department as not available for the PASS/FAIL option may not be taken as such.*
- 2. Any student taking a course PASS/FAIL must have first completed the graduation requirements for courses in that department or be concurrently enrolled in a required class.*
- 3. Credit only will be awarded for a pass in this course. There will be no grade calculated in the student's grade point average (GPA) for this course. If a student takes a class Pass/Fail, and earns a D- or better, a "P"(credit) goes on the transcript. This CR does not affect the student's GPA in any way. If a student takes a class Pass/Fail and earns an F, a "NC" (no credit) goes on the transcript. This NC does not affect the student's GPA in any way.*
- 4. The student is required to complete all papers/projects/tests/quizzes for this course.*

*Any student wishing to take a course **PASS/FAIL** must notify guidance of his/her intentions within the time period noted at the bottom of this sheet. This must be done with the formal agreement signed by student, parent and a guidance counselor. The grade will not be changed to Pass/Fail until after the end of the grading period. This will enable the parents to see the actual grade earned. This procedure must be repeated each semester a PASS/FAIL elective is chosen.*

Due dates vary but typically run shortly after the semester of that grading period ends.

Schedule Change Policy

If students at Metamora High School desires a change in their schedule once the semester begins, they must fill out a Student-Initiated Schedule Change form which can be viewed below:

Student-Initiated Schedule Change

** The signing of this form does not guarantee that the changes will be made*

Name _____

Grade _____

Request to drop the following course:

Request to add the following course:

Explain why you are requesting to make a course change:

Student signature _____

Date _____

Parent Signature _____

Date _____

Situations NOT requiring the use of the form

- 1. Schedule changes requested/initiated by parents, teachers, or administration.*
- 2. Schedule changes that occur when rectifying conflicts in schedules. (prior to semester starting)*
- 3. Schedule changes that occur when balancing classes.*

Student Resources

<i>Resource</i>	<i>Personnel</i>	<i>Location</i>
<i>Personal counseling, transcripts, schedules, schedule changes, grades, conflict resolution, letters of recommendation, college information, standardized testing, graduation requirements, scholarship information</i>	<i>Ron Bachman, M.S., B.S. Garry Finch, M.S., B.S. Malinda Brown, M.S., B.S.</i>	<i>Guidance Office Main Hall</i>
<i>Any medical needs, medical supplies, leave school for medical reasons</i>	<i>Lisa Doty, R.N.</i>	<i>Nurse's Office Main Hall</i>
<i>Any required athletic forms, athletic questions</i>	<i>Jackie Matthews, B.S. Jared Hart, M.S. B.S.</i>	<i>Main Office Main Hall</i>
<i>Pay all fees including lunch account, graduation information, pay book fines.</i>	<i>Connie Grebner</i>	<i>Main Office Main Hall</i>
<i>Passes to class, any attendance and/or parking lot issues, discipline issues, pick up student planners and ID's, detentions, and where you to be pickup up during the school day</i>	<i>Kevin Hodel, M.S., B.S. Jared Hart, M.S., B.S. Pat Knaub Wendy Signa</i>	<i>Dean's Office Main Hall</i>
<i>Vo Tech Fees, free/reduced lunch forms</i>	<i>Sandy Larson, B.S.</i>	<i>Superintendent's Office Main Hall</i>
<i>IT Issues</i>	<i>Bill Upp, B.A. Eric Stone, M.S., B.S., Tech Integration Specialist</i>	<i>IT Office Near Library</i>
<i>Gmail questions or problems</i>	<i>Kimberly McCoy, B.S. Eric Stone, M.S., B.S., Tech Integration Specialist</i>	<i>Room 211</i>
<i>School Psychologist</i>	<i>Dr. Jennifer Jewell, Ph. D.</i>	<i>Room 106 Near Guidance Office</i>
<i>Transportation issues, lunch account information</i>	<i>Pete List, M.S., B.S.</i>	<i>Main Office Main Hall</i>
<i>Skyward account information, lunch account questions or changes</i>	<i>Greg Harrison, M.S., B.S.</i>	<i>Room 105 Near Guidance Office</i>
<i>Principal</i>	<i>Sean O'Laughlin, M.A., M.S., Ed.S., N.B.C.T.</i>	<i>Principal's Office</i>

Activities, Organizations Available to MTHS Students

<i>Archery</i>	<i>VICA</i>
<i>Band</i>	<i>Vocational Tech Club of Am.</i>
<i>Bass Fishing Club</i>	<i>Visual Art Club</i>
<i>Car Club</i>	<i>Writer's Club</i>
<i>CASA</i>	<i>WYSE</i>
<i>Chess Club</i>	<i>Yearbook</i>
<i>Lan Electronics Club</i>	<i>Madrigals</i>
<i>Math Team</i>	<i>Medical Club</i>
<i>Court Singers</i>	<i>Musical</i>
<i>Drama Club</i>	<i>National Honor Society</i>
<i>Fall Play</i>	<i>Operation Snowball</i>
<i>FCA</i>	<i>Photography</i>
<i>FCCLA</i>	<i>Robotics</i>
<i>FFA</i>	<i>Scholastic Bowl</i>
<i>Color Guard</i>	<i>Science Club</i>
<i>Forensics(Speech)</i>	<i>Spanish Club</i>
<i>German Club</i>	<i>Spring Play</i>
<i>Intramurals</i>	<i>Student Council</i>
<i>Key Club</i>	<i>Life Skills Peer Partners</i>

Sports available to MTHS Students

<i>Baseball</i>	<i>Softball</i>
<i>Boys' Basketball</i>	<i>Boys'/Girls' Swimming</i>
<i>Girls' Basketball</i>	<i>Boys' Tennis</i>
<i>Cheerleading</i>	<i>Girls' Tennis</i>
<i>Boys'/Girls' Cross Country</i>	<i>Boys' Track</i>
<i>Boys' Golf</i>	<i>Girls' Track</i>
<i>Girls' Golf</i>	<i>Dance Team</i>
<i>Football</i>	<i>Volleyball</i>
<i>Boys' Soccer</i>	<i>Wrestling</i>
<i>Girls' Soccer</i>	

All Courses by Department/Page number index

<i>Course</i>	<i>COURSE NUMBERS</i>	<i>PAGE NUMBER</i>
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<i>English</i>	<i>1001 - 1860</i>	<i>16</i>
<i>Fine Arts</i>	<i>5021 - 5350</i>	<i>25</i>
<i>Band</i>	<i>5521 - 5112</i>	<i>26</i>
<i>Choir</i>	<i>5771 - 5872</i>	<i>28</i>
<i>General Music/Fine Arts</i>	<i>5200 - 5350</i>	<i>29</i>
<i>World Languages</i>	<i>0811 - 0981</i>	<i>33</i>
<i>Family and Consumer Sciences</i>	<i>6300 - 6440</i>	<i>37</i>
<i>Math</i>	<i>2021 - 2791</i>	<i>40</i>
<i>Physical, Health, & Driver Education</i>	<i>7001 - 7212</i>	<i>47</i>
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<i>Career/Technical</i>	<i>6501 - 6912</i>	<i>61</i>

<i>Agricultural</i>	<i>6801 - 6912</i>	<i>63</i>
<i>Automotive</i>	<i>6750 - 6782</i>	<i>65</i>
<i>Drafting</i>	<i>6600 - 6640</i>	<i>66</i>
<i>Electronics</i>	<i>6660 - 6670</i>	<i>67</i>
<i>Graphic Arts</i>	<i>6720 - 6700</i>	<i>68</i>
<i>Project Lead The Way</i>	<i>6941 - 6972</i>	<i>70</i>
<i>Welding/Metals</i>	<i>6550 - 6590</i>	<i>72</i>
<i>Woods</i>	<i>6520 - 6542</i>	<i>73</i>
<i>Work Force Prep</i>	<i>6251 - 6252</i>	<i>74</i>
<i>Robotics</i>	<i>6640 - 6640</i>	<i>75</i>

BUSINESS EDUCATION CLASSES

Freshman	Sophomore	Junior	Senior
Keyboarding 1 (S)	Keyboarding 1 (S)	Keyboarding 1 (S)	Keyboarding 1 (S)
Keyboarding 2 (S)	Keyboarding 2 (S)	Keyboarding 2 (S)	Keyboarding 2 (S)
Career Exploration (S)	PC Applications 1 (S)	PC Applications 1 (S)	PC Applications 1 (S)
	PC Applications 2 (S)	(Microsoft Office)	(Microsoft Office)
	Computer Programming 1 (S)	PC Applications 2 (S)	PC Applications 2 (S)
	Computer Programming 2 (S)	(Microsoft Office Advanced)	(Microsoft Office Advanced)
	Accounting I (Y)	Computer Programming 1 (S)	Computer Programming 1 (S)
	Career Exploration (S)	Computer Programming 2 (S)	Computer Programming 2 (S)
		Web Page Design (S)	Web Page Design (S)
		Accounting I (Y)	Accounting I (Y)
		Accounting II (Y)	Accounting II (Y)
		Career Exploration (S)	Career Exploration (S)
		Consumer Economics (S)	Consumer Economics (S)

KEYBOARDING 1

SEM. 1 6010

SEM. 2 – 6010 (12005A001)

Semester - 0.5 credit; All Classes; Prerequisite: None

Students will be expected to type by touch. Keyboarding 1 has a concentration in using the MS Word program. It is a course designed to teach fundamental word processing skills to beginning and intermediate level students. The course will focus on learning how to control all text and graphic elements within the application and create documents for a variety of personal and business reasons. Course work will include formatting memos, personal business letters, and business letters. Students will type reports, arrange tables, and work to improve speed and accuracy by taking timed writings. Good proofreading skills will be reinforced. Various software programs, games and activities are used in an engaging way to motivate speed and accuracy development. This course is a prerequisite for some additional business courses.

KEYBOARDING 2

SEM. 1 6020

SEM. 2 – 6020 (10005A001)

Semester - 0.5 credit; All Classes; Prerequisite: Keyboarding 1

Students are expected to type by touch. Keyboarding 2 has a concentration in Desktop Publishing. This is an advanced-level course using Microsoft Word 2010 to solve real world, office related tasks. Keyboarding 2 is a business course designed to allow students to develop proficiency in using desktop publishing software to create a variety of printed publications. Students will analyze the information and the audience and combine appropriate text, graphics, and design to communicate the desired message effectively. Planning and design principles are used to analyze and organize information, set up a design structure, and select or create appropriate visuals. Instructional strategies may include computer/technology applications, teacher demonstrations, collaborative instruction, interdisciplinary and/or culminating projects, problem solving and critical thinking activities, simulations and project-based learning activities.

Computer Programming 1**SEM. 1 – 6041 (10152A001)**

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: None

This is a one-semester class in which students will learn to program using Alice, a free 3-D programming language which uses animation. Students will learn programming techniques such as looping, selection, and data structures, along with how to control objects to simulate animation. No prior programming experience is necessary.

COMPUTER PROGRAMMING 2**SEM. 2 – 6042 (10152A002)**

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: Computer Programming 1

This is a one-semester class in which students will learn to write programs using MS Visual Basic. Students will learn the programming process by defining the problem, designing a solution, writing the program, and testing and debugging the program. This course will help students develop skills in critical thinking, problem solving, and logical reasoning. Topics covered will be creating forms, defining and using variables, selection structures, option buttons, check boxes, and loops

PC APPLICATIONS 1**SEM. 1 – 6071 (10004A001)****(Microsoft Office 2010)**

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: Keyboarding

This course prepares students to work with Microsoft Office 2010 in a career setting or for personal use. Using courseware that incorporates a step-by-step, project-based case study approach, students develop an introductory level of competency in Office 2010. First semester will include introductions to the following software components: word processing (Word), spreadsheet applications (Excel), and presentation software (PowerPoint). Students will also develop an understanding of fundamental computer hardware and software concepts.

PC APPLICATIONS 2**SEM. 2 – 6072 (10005A001)****(Microsoft Office 2010 – Advanced)**

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: PC Applications 1

This is an advanced - level course. Students will use the database component of MS Office (Access) to create, input, and update databases and spreadsheets (Excel) utilizing more advanced features of the software. Students will learn to locate and retrieve information from hard copy and electronic sources and prepare masters for a presentation using PowerPoint. Integration of these applications will also be included in the curriculum. Students will apply proper grammar, punctuation, spelling, and proofreading practices. Workplace and communication skills will be integrated throughout this course.

CAREER EXPLORATION **SEM. 1 – 6101 (22151A000)** **SEM. 2 – 6102 (22151A000)**
Semester – 0.25 credit; All Classes; Prerequisite: None; Required course taken opposite Driver Education every other day. If a student did not take Driver Education at MTHS or has already taken Driver Education, this course may be taken opposite a study hall every other day.

This is a one-semester, every other day class in which students will be given opportunities to explore their interests, abilities, values and personalities as they relate to a choice of career. Students will examine and research those careers that match their individualities and those careers of interest to them. Students will then create their own personalized plan of study, which will cover their high school course selections, as well as prepare a plan of study for beyond high school (job, career or technical school, junior college, or four-year college). Career Cruising software will be used to build a personalized, electronic portfolio for each student. This portfolio can then be accessed throughout their high school and college years and beyond.

ACCOUNTING I **SEM. 1 – 6111 (12104A001)** **SEM. 2 – 6112 (12104A001)**
Year - 1.0 credit; Sophomore/Junior/Senior; Prerequisite: None

Accounting I is a one-year course open to business oriented students, particularly those college bound students considering a business or accounting major, and also those planning to own their own business. Accounting I presents the complete accounting cycle in its simplest form. Journaling and posting are learned and continually reinforced. Learning the skills necessary to keep the financial records of a business is a part of the course, but major emphasis is also placed on understanding the accounting cycle and the financial statements which are prepared as a part of that cycle. Accounting for businesses established as sole proprietorships, partnerships, and corporations will be covered.

ACCOUNTING II **SEM. 1 – 6121 (12104A002)** **SEM. 2 – 6122 (12104A002)**
Year - 1.0 credit; Junior/Senior; Prerequisite: Accounting I

This course is specifically vocational and career oriented. It is planned for the student who has one or more of the following objectives in mind: (a) to become an accountant or an accountant's assistant; (b) to go to college and major in accounting, marketing, management, or some other aspect of business administration; (c) to know more about business procedures and business records than can be learned in a first-year course so that, as a future business owner or manager, he or she can direct an organization and interpret business records; (d) to better understand the relationship between automated data processing and the manual processing of business data. Areas covered include review of basic accounting procedures, departmental and payroll accounting, the accounting of depreciation, depletion, bad debts, partnership accounting, tax and cost accounting, and corporate accounting.

WEB PAGE DESIGN **SEM. 1 – 6150** **SEM. 2 – 6150 (10201A001)**
Semester - 0.5 credit; Junior/Senior; Prerequisite: Visual Basic I

This is a one-semester class designed to teach students the fundamentals of Web Page Design using Dream Weaver. This code will cover basic formatting tags, adding links, using graphics, tables, frames, forms, and using JavaScript to program different elements. Students will design a multimedia Web Page incorporating each of these items as a culminating project.

COOPERATIVE VOCATIONAL EDUCATION SEM. 1 – 6231 SEM. 2 – 6232 (22153A001)

Year - 2.0 credits; Senior; Prerequisite: Sufficient credits as determined by Guidance Department
Students must successfully complete the application process in February in order to be accepted into this program. This process includes an application form, parent authorization, faculty recommendations, an interview with the coordinator and attendance and discipline reports. This is a work experience program that is designed to develop employment competencies in students through both classroom instruction and a career related training station. Emphasis is placed on matching students with career related entry-level positions. Therefore, food service positions, unless managerial, are not acceptable training stations for this program. The classroom instruction portion of the program includes topics such as personal career development, job seeking skills and communication, and career exploration. This course will provide students with the knowledge, attitude, skills, and habits necessary to make the transition from school (high school/college) to the workplace successfully. Acceptance into this program and a specific job placement cannot be guaranteed. If the student does not have a job (approved by the coordinator) before the beginning of the school year, entrance into the CO-OP program will be denied. This course will also include a personal finance component that will count for the student's Consumer Education requirement.

CONSUMER ECONOMICS SEM. 1 – 4800 SEM. 2 – 4800 (22210A000)

Semester - 0.5 credit; Junior/Senior; GRADUATION REQUIREMENT; Prerequisite: None
This class is a study of the consumer's role in the marketplace. It includes the study of the American economic system and the principles fundamental for participation as a consumer. Students will study the importance of financial goal setting, budgeting, saving and investing, and other consumer responsibilities. Students will be taught valuable life skills, such as using credit wisely, avoiding fraud, investing for the future, understanding consumer rights, filing tax forms, and making bank transactions. Current issues that affect consumers and the marketplace will be discussed as well. This course will fulfill the consumer education requirement for graduation.

ENGLISH

ENGLISH DEPARTMENT CLASSES

* - These classes require the recommendation of the current English teacher for admittance.

^ - These classes can be taken for ICC credit.

<i>Freshman</i>	<i>Sophomore</i>	<i>Junior</i>	<i>Senior</i>
<i>Honors English I (Y)</i>	<i>English II (Y)</i>	<i>Honors American Literature I (S)</i>	<i>^ Honors Senior English I (S)</i>
<i>English I (Y)</i>	<i>Honors English II (Y)</i>	<i>Honors American Literature II (S)</i>	<i>^ Honors Senior English II (S)</i>
<i>Strategic Reading (Y)</i>	<i>Enriched Reading (Y)</i>	<i>Honors British Literature I (S)</i>	<i>Honors Senior English (AP) II (S)</i>
		<i>Honors British Literature II (S)</i>	<i>Senior English I - SD (S)</i>
		<i>American Literature I (S)</i>	<i>Senior English II - SD (S)</i>
		<i>American Literature II (S)</i>	<i>* Senior English I – TD (S)</i>
		<i>British Literature I (S)</i>	<i>* Senior English II – TD (S)</i>
		<i>British Literature II (S)</i>	<i>Humanities I (S)</i>
		<i>* English III (Y)</i>	<i>Humanities II (S)</i>
		<i>Humanities I (S)</i>	<i>^Honors Humanities (S)</i>
		<i>Humanities II (S)</i>	<i>Adv. Communications (S)</i>
		<i>^Honors Humanities (S)</i>	<i>Creative Writing (S)</i>
		<i>Adv. Communications (S)</i>	<i>Collegiate Reading (S)</i>
		<i>Creative Writing (S)</i>	<i>Modern Literature (S)</i>
		<i>Collegiate Reading (S)</i>	
		<i>Modern Literature (S)</i>	

The English Department has established these specific requirements:

1. A minimum of one book report, in addition to regular course requirements, will be required each nine weeks in all classes, freshman through senior years.
2. After the required English II course at the Sophomore level, the basic elements of organization (outlining and note taking) and structure taught in that course will be the minimum standard for all written work. Research papers will be required each semester at the junior and senior level.
3. All written work in all classes will be subject to a minimum set of standards regarding format, sentence structure, capitalization, punctuation and content.
4. **A NOTE ABOUT ENROLLING IN HONORS CLASSES:** Participation in all English Honors classes is contingent upon the student completing a summer reading requirement (and any work concerning said reading, such as e-mail, journal responses, etc.) by the end of the first short week of school in the fall. Students will be given the summer reading projects in late May. If additional students need copies or switch classes, more copies of the reading assignments are available on the English Department web page. Failure to complete summer reading will result in a O grade in the gradebook. It is through completing all summer reading/writing requirements that students demonstrate they are capable and ready to participate in Honors courses.

NOTE: The following courses fulfill the sophomore English class requirement.

ENRICHED READING

SEM. 1 – 1051

SEM. 2 – 1052 (01066A000)

Year - 1.0 credit; Sophomore; Enrollment based on test scores

This course is for any student who has taken Strategic Reading, unless he/she is reading successfully at grade level (as measured by several reading evaluations), or by teacher recommendation. This course is designed to help students reach grade level comprehension through the use of an intensive, structured reading curriculum. Various diagnostic tests and leveled materials of high interest are used to individualize each student's program. Techniques like those listed under Strategic Reading will be further explored. Additionally, students will focus on increasing their effort in all classes.

ENGLISH II

SEM. 1 - 1061

SEM.2- 1062 (0002A000)

Year - 1.0 credit; Sophomore required course for graduation (or Honors)

English II is a required class for graduation. This sophomore-level English class continues to develop skills that students worked on in their freshman English class. The class focuses on two critical skills: written composition and oral communication. Students will hone their research skills during a library-based research unit. Grammar skills continue to be emphasized and improved, both in written and oral formats. A fiction (short stories and novel) unit further develops the literary analysis and appreciation from the English I course. This course also brings a new emphasis on reading and analyzing informational texts. Students will practice and study narrative, expository (informational), and persuasive writing and speaking, with a special emphasis on persuasive skills. Students will complete at least one book study per semester.

HONORS ENGLISH II

SEM. 1 – 1071

SEM.2 – 1072 (00002A000)

Year - 1.0 credit(0.5 credits per semester); Sophomore; Prerequisite Honors English I

This course is designed for sophomores who have excelled in Honors English I, or who are recommended by their teacher for these courses. English II Honors starts with the basic curriculum described for English II. A more rigorous study of both written composition and oral communication techniques will be pursued. Students will explore more complex grammar problems, chosen to immediately improve the students' performance in writing and speaking assignments. A summer reading project is required for this class, details for which students will be provided with in their freshman English classes and on the English Department web site.

NOTE: The following courses below fulfill the Junior English course requirement.

NOTE: For the Junior year, students must choose a literature-based course (British Literature, American Literature, or English III), or the Honors versions thereof. Students may also elect to take these courses as electives their Junior/Senior years.

English III**SEM. 1 – 1521****SEM. 2 – 1522 (04051A000)**

Year - 1.0 credit; Junior; Prerequisite: Teacher recommendation only

This course is designed for only Juniors recommended by their teachers to revisit grammar, writing, vocabulary and reading skills. Additionally, listening and speaking skills will be addressed. Four novels or books will be read during this course. A basic research project will also be featured. It will be thematic in approach to several different genres, including poetry, short story, drama, and the novel. Selections will include both American and world authors. Writing will include various types of composition, response and personal journals, and letter writing. The focus will be teacher-directed on improving reading and writing skills and preparing the student for Senior English, and a career or college after that.

AMERICAN LITERATURE I AND II**SEM. 1 – 1541****SEM. 2 – 1542 (01054A000)**

Semester each - 0.5 credit; Junior (Senior may take as an elective); Prerequisite: English II

For college-bound students, American Literature will follow a chronological, historical time line as a basis of study. It is meant to enhance the literary and historical background of students. Research papers will be required each semester, with citations and a bibliography. Short stories, plays, novels, and poems will be read throughout the year. Also included will be nonfiction selections, grammar, and listening/speaking skills. Emphasis will be on using writing to express student evaluation of the materials they have read. Research papers will be required each semester, with MLA citations and a Works Cited page. Book reports and four essays will be written during this yearlong course, in addition to the research paper each semester.

HONORS AMERICAN LITERATURE I AND II**SEM. 1 – 1621****SEM. 2 1622 -- (01054A000)****STUDENTS ARE REQUIRED TO COMPLETE SUMMER READING PROJECTS.**

Semester each - 0.5 credit; Prerequisite: Honors English I and/or Honors English II, or teacher recommendation.

For college-bound students, this class covers the material chronologically from the early 1600's (Native American and explorers/settlers unit) to modern times. Emphasis will be on developing essays based on literature presented in the class, or on relevant related topics. A variety of authors are surveyed, focusing on representative American trends, themes and ideas. Research papers will be required each semester (a minimum of two for the year), with citations and a Works Cited page. This is in addition to at least four essays. Grammar, listening and speaking skills, and nonfiction texts will be integral to the class. The class will include individual and group projects, class discussions, and quizzes, tests, etc. Novels, drama, short stories and poems will be covered, with a large emphasis first semester on nonfiction texts. At least six novels will be read during this course. This class is intended to prepare students for Honors Senior English and an eventual smooth transition into college English.

BRITISH LITERATURE I and II**SEM. – 1581****SEM. 2 – 1582 (01056A000)**

Semester each - 0.5 credit; Junior (Seniors may take as an elective)

For college-bound students, this course focuses on literature and language from the primitive Anglo-Saxon era to the Renaissance (first semester) and from the Renaissance to modern times (second semester). It traces the development of literature. It is meant to enhance the literary and historical background of students. Class discussion, group work, essays, cultural projects, grammar, and hands-on activities, internet web quests, and application of literary techniques enhance the class curriculum. Reading material will also include nonfiction. This course will provide a smooth transition for the student into Senior English and ultimately college English. At least four novels or books will be read during this course. Research papers will be required each semester with citations, and a Works Cited page. Listening and speaking skills will also be covered. This class is intended to prepare students for Senior English and an eventual smooth transition into college English.

**HONORS BRITISH LITERATURE I & II SEM. 1 – 1661 SEM. 2 -- 1662 (01056A000)
STUDENTS ARE REQUIRED TO COMPLETE SUMMER READING PROJECTS.**

Semester each - 0.5 credit; Junior (Senior may take as an elective)

Prerequisite: Honors English I and/or Honors English Written Composition and Honors Oral Communications, or teacher recommendation. For college-bound students, this course focuses on literature, nonfiction and language from the primitive Anglo-Saxon era to the Renaissance (first semester) and from the Renaissance to modern times (second semester). It traces the development of literature. It is meant to enhance the literary, cultural and historical background of students. Class discussion, group work, essays, cultural projects and hands-on activities, internet web quests and web page design, and application of literary techniques enhance the class curriculum. This course will provide a smooth transition for the student into Honors Senior English and ultimately college English. Research papers will be required each semester with citations, and Works Cited page. Listening and speaking skills and grammar also are part of the curriculum. At least six novels will be read during this course.

NOTE: The following courses fulfill the Senior English course requirement.

**SENIOR ENGLISH I and II– TEACHER-DIRECTED
(01103A000)****SEM. 1 – 1761****SEM. 2 – 1762**

Year - 1.0 credit; Senior requirement for graduation; Prerequisite: Teacher recommendation only

This course contains the same curriculum as the self-directed course (see below). It is a study of significant types of writing which teach advanced composition structure and style in the following major units: definition, argument/persuasion, comparison/contrast, critical analysis, and creative writing. Required assignments include short essays, research papers, a literary critical analysis, and creative projects. The final project is an occupational study requiring research, interview, and observation of a chosen career. This course involves teacher-assigned reading and worksheets for the note-taking process. Also, outlining and writing the papers will be teacher-directed with more deadlines and very structured use of class time. Sufficient time is allowed for each assignment, and students have access to the lab during study halls and before/after school. Listening and speaking skills, vocabulary work, and grammar are part of this course, which also reads nonfiction and some fiction texts. This course will involve teacher-assigned topics for essays and research, and authors for analysis. The student will make his/her own career choice for the final project.

HONORS AP ENGLISH LANGUAGE/COMP SEMINAR**SEM. 2 – 1842 (01101A000)**

Semester - 0.5 credit; Senior; Prerequisite: Honors Senior English I and Honors British Literature I and II or Honors American Literature I and II.

Seniors will complete units preparing them for both the AP English Language and Composition and the AP Literature and Composition tests in May. This collegiate-content class will include written and oral analysis of all the genres of literature, focusing on the uses and techniques of rhetoric. The students will study writers' strategies, imitate writers' styles, analyze how arguments are presented to influence readers and thinkers, etc. Close reading skills will be utilized and listening and speaking skills will also be stressed. The semester culminates with a retrospective presentation to the class of their high school years. Students who opt to take the AP tests can earn up to 9 hours of college semester credit, depending on the score and the university to be attended. The AP credit earned via the test will replace Freshman English courses.

ADVANCED COMMUNICATION SEM.1 - 1690**SEM. 2 – 1690 (01151A000)**

Semester - 0.5 credit; Junior/Senior; Prerequisite: Oral Communication

This course provides an advanced understanding of communication theory in the areas of public relations, political campaigns, corporate, identity, and advertising. There will be two individual presentations, one small group presentation, and a short research paper. We will use social media, YouTube, special presenters for the corporate world, and, if approved, a field trip.

HUMANITIES I**SEM. 1 – 1711 (04301A000)**

Semester each - 0.5 credit/semester; Junior/Senior; Prerequisite: None.

The first semester of Humanities focuses on Greek and Roman classical culture as it has been handed down to us today. What was it like to compete in the Greek Olympic Games or stroll through the Roman baths? What do Dorian, Corinthian, and Ionic have in common? How can you tell Athenian artwork from a Roman fake? All these questions will be answered along with many others. Ponder Plato, Socrates and Cicero with us as we pursue the ultimate question, "What does it mean to be human?"

Note: (Course can be taken as either an English elective or an Art elective.)

Humanities II**SEM. 1 – 1711 (04301A000)**

Semester - 0.5 credit/semester; Junior/Senior; Prerequisite: None.

The second semester of Humanities focuses on the Middle Ages, the Renaissance, and the Romantic eras of Western culture. We discover the risks of being a medieval peasant, how Roman governmental architecture made it all the way into modern churches, and how the rediscovery of Classical ideas led to Michelangelo's Sistine Chapel. In addition to art, music, philosophy, and architecture, we focus on developments in medicine, literature, and politics as we become acquainted with the great communities of the medieval through the romantic eras.

Note: (Course can be taken as either an English elective or an Art elective.)

HONORS HUMANITIES**SEM. 1- 1720****Sem. 2- 1720 (04301A000)**

Semester 0.5 credit/semester; Junior/Senior; Prerequisite: see note below.

This dual credit course is an interdisciplinary study of literature, philosophy, the visual arts, and music in Western civilization from the ancient to the early modern periods. This course covers the classical world through 1650, so we move quickly. Primary source readings help us focus our attention on the major developments in this wide range of dates. Ponder Plato, Socrates, St. Augustine and others with us as pursue the ultimate question, "What does it mean to be human?" Consider how the rediscovery of Classical ideas led to Michelangelo's Sistine Chapel, and ancient Roman engineering led to the cathedrals

of France. Thinkers only, please.

Note: (Course can be taken as either an English elective or an Art elective.) This course can be taken for ICC college credit (Hum. 123). Students wanting to take the course must score an 81 or better on the ICC Placement Test (Compass) or a 18 or better on the English portion of the ACT. Students may take both Regular and Honors Humanities.

CREATIVE WRITING**SEM. 1 – 1740****SEM.2 – 1740 (01104A000)**

Semester - 0.5 credit; Junior/Senior; Prerequisite: None

This course is designed to offer an opportunity to write creatively in a variety of forms, such as fiction, short stories, poetry, memoir, and journaling. Creative Writing invites students to write primarily through journaling, but to then build from ideas, turning older, less developed works into something more. Memoir leads to fiction and poetry. This course requires students to compose a choice final project and to save every piece of writing in order to organize and present an end-of-season folder. Still important to this writing is correct grammar usage, mechanics, and spelling.

COLLEGIATE READING**SEM. 1 – 1850****SEM.2 – 1850 (01065A000)**

Semester – 0.5 credit; Junior/Senior; Prerequisite: None

*This one-semester course is designed for Juniors and Seniors who **love to read** or who want to expand their reading time or skills. Students who wish to improve their comprehension and speed will prepare for the more rigorous reading expected of college students. They will analyze their comprehension level/speed, and develop/apply strategies to improve in both areas. In addition to learning to read quickly while maintaining comprehension, students will practice techniques to help them critically analyze and evaluate college level texts, both structured (textbooks, journal articles, technical manuals, etc.) and unstructured (biographies, novels, etc.). In addition, students will learn and apply strategies to improve speed and comprehension for computer and web-based reading. Students will also read self-selected texts to encourage lifetime reading for enjoyment. Major goals of this course are to increase students' reading rates several times, to help students successfully comprehend (and retain) information in college level texts, and to give busy students a time and place to read things they enjoy.*

MODERN LITERATURE SEM. 1 -- 1860

SEM. 2 – 1860 (22106A000)

Semester – 0.5 credit; Junior/Senior; Prerequisite: None

What does it mean to be literate in the 21st century? This one-semester course is designed for curious juniors and seniors who want an elective in which they analyze and approach media texts of the modern world. Units involved will be: photography, print and television advertising, magazine production, television and news media production, film production, and web design. Students will learn how to “read” a variety of modern “texts”, and use technology to creatively share their knowledge and learning experiences with their classmates and the world. Students will also use an online learning management system, to get a taste of online learning, and how technology is currently being used at an academic level in preparation for college.

FINE ARTS

FINE ARTS DEPARTMENT CLASSES

	<u>Freshman</u>	<u>Sophomore</u>	<u>Junior</u>	<u>Senior</u>
<u>Bands</u>	<i>Percussion (S1)</i> <i>Color Guard (S1)</i> <i>Symphonic Band (Y)</i> <i>Wind Ensemble (Y)</i>	<i>Percussion (S1)</i> <i>Color Guard (S1)</i> <i>Symphonic Band (Y)</i> <i>Wind Ensemble (Y)</i>	<i>Percussion (S1)</i> <i>Color Guard (S1)</i> <i>Symphonic Band (Y)</i> <i>Wind Ensemble (Y)</i>	<i>Percussion (S1)</i> <i>Color Guard (S1)</i> <i>Symphonic Band (Y)</i> <i>Wind Ensemble (Y)</i>
<u>Choirs</u>	<i>Freshman Choir (Y)</i>	<i>Concert Choir (Y)</i>	<i>Chorale (Y)</i>	<i>Chorale (Y)</i>
<u>Art</u>	<i>Art 1 2D (S)</i> <i>Art 1 3D (S)</i>	<i>Art 1 2D (S)</i> <i>Art 1 3D (S)</i> <i>Intermediate Art 2D (S)</i> <i>Intermediate Art 3D (S)</i>	<i>Art 1 2D (S)</i> <i>Art 1 3D (S)</i> <i>Intermediate Art 2D (S)</i> <i>Intermediate Art 3D (S)</i> <i>Advanced Art S1</i> <i>Advanced Art S2</i> <i>Black & White Photography (S)</i> <i>Black & White Photography II (S2)</i>	<i>Art 1 2D (S)</i> <i>Art 1 3D (S)</i> <i>Intermediate Art 2D (S)</i> <i>Intermediate Art 3D (S)</i> <i>Advanced Art S1</i> <i>Advanced Art S2</i> <i>Black & White Photography (S)</i> <i>Black & White Photography II (S)</i> <i>Senior Art Portfolio S1</i> <i>Senior Art Portfolio S2</i>
<u>General</u>		<i>Drumming (S)</i> <i>Performing Arts (S)</i>	<i>Piano 1 (S)</i> <i>Piano 2 (S)</i> <i>Acoustic Guitar (S)</i> <i>Drumming (S)</i> <i>Music Theory/History 1 (S)</i> <i>Music Theory/History 2 (S)</i> <i>Performing Arts (S)</i>	<i>Piano 1 (S)</i> <i>Piano 2 (S)</i> <i>Acoustic Guitar (S)</i> <i>Drumming (S)</i> <i>Music Theory/History 1 (S)</i> <i>Music Theory/History 2 (S)</i> <i>Performing Arts (S)</i>

NOTES:

1. One full year of fine arts is required for graduation.
2. The band program is open to everyone regardless of ability and previous experience. Participation in Wind Ensemble, however, is based on auditions.

BANDS

Every MTHS band is a graded class that meets every day. Band classes focus on the study and performance of various styles of instrumental music. There is a strong emphasis on the development of individual musicianship. All band students may opt to receive non-GPA or GPA credit, or Honors GPA credit in any band class. Students select either non-GPA or GPA credit at the beginning of the school year or audition for Honors credit during the prior 2nd semester.

Honors Instrumental Music (08014A000)

The purpose of Honors Instrumental Music is to provide a venue for gifted and talented students to study music in-depth and receive Honor credit for their work. The rigors of the Honors program are designed for the serious music student. Students who audition for in the Wind Ensemble automatically qualify for Honors Instrumental Music. Students must audition in the spring to be accepted and then re-audition prior to the school year to maintain Honors status. Honors Instrumental Music is open to all students enrolled in band.

To enroll in band, students must choose:

1st Semester

Percussion (5021)

-or-

Symphonic band (5051)

-or-

Wind Ensemble (5111)

AND

2nd Semester

Symphonic Band (5052)

-or-

Wind Ensemble (5112)

PERCUSSION

SEM. 1 – 5021 (08014A000)

Semester – 0.5 credit; All grade levels, No Prerequisite

This is a full year class with Symphonic Band Sem. 2(5052) or Wind Ensemble Sem. 2(5112).

This class is designed for all percussionists in the band program. Students will learn beginning to advanced percussion techniques and work in small ensembles, including percussion ensemble and steel band. Students are also assigned to basketball pep band. Students select either non-GPA or GPA credit at the beginning of the school year or audition for Honors credit during the prior 2nd semester. (All bands are a full year course.)

SYMPHONIC BAND**SEM. 1 – 5051****SEM. 2 – 5052 (05102A000)**

Year – 1.0 credit; All grade levels; No Audition; Prerequisite: None

The Symphonic Band is a yearlong course open to all students, regardless of ability, including beginners. The band concentrates on challenging and appropriate repertoire for symphonic band, concentrating on band masterworks. Membership does NOT require an audition. The ensemble performs a minimum of one on-campus concert per nine weeks plus various festivals and off-campus concerts. A syllabus, detailing requirements, is given at the beginning of the school year. Students are also assigned to basketball pep band. Students select either non-GPA or GPA credit at the beginning of the school year or audition for Honors credit during the prior 2nd semester. (All bands are a full year course.)

- *The option to participate in marching band is open to all members.*
- *Marching members receive a PE waiver.*
- *Marching Band percussionists will automatically be assigned to Marching Band Percussion (502) 1st semester.*

WIND ENSEMBLE**SEM. 1 – 5111****SEM. 2 – 5112 (05102A000)**

Year – 1.0 credit; All grade levels; Audition required; Prerequisite: None

Wind Ensemble is the most advanced wind and percussion ensemble for those students who have achieved the highest level of proficiency. Entry into the ensemble is by audition only and is open to all grade levels. Auditions take place in the spring prior to the next year. This is a yearlong course that fosters outstanding rehearsal and performance standards, refined musical literature study (advanced high school and college-level music) and a high degree of music appreciation. With only 1-2 players per part, this ensemble is smaller than a band. Daily home practice and total commitment to personal as well as ensemble excellence are essential and expected. Private study is imperative. The ensemble performs a minimum of one on-campus concert per nine weeks plus various festivals and off-campus concerts. A syllabus, detailing requirements, is given at the beginning of the school year. Students are also assigned to basketball pep band. Students select either non-GPA or GPA credit at the beginning of the school year or audition for Honors credit during the prior 2nd semester. (All bands are a full year course.)

All Wind Ensemble members are required to audition for ILMEA. Students select either non-GPA or GPA credit at the beginning of the school year or audition for Honors credit during the prior 2nd semester.

- *The option to participate in marching band is open to all band members.*
- *Marching members receive a PE waiver.*
- *Marching Band percussionists will be automatically assigned to Percussion (5021), 1st semester.*

COLOR GUARD PE**SEM. 1 – 9821 (08013A000)**

Semester – 0.25 credit; All grade levels; Prerequisite: None

The Color Guard is part of the Marching Band. The Marching Band performs at all home football games, homecoming parade, as well as five to six competitions in the fall plus Tuesday and Thursday night rehearsals and after-school sectionals. All Color Guard students must also participate in summer activities including Old Settler's Parade, section rehearsals, drills and band camp. There is no audition, but all students must participate in placement clinics. Color Guard fulfills the PE requirement for the first semester.

CHOIR**CHORALE**

Year – 1.0 credit; Junior/Senior; Prerequisite: None

Chorale is the most advanced choral ensemble for students who have achieved a high level of proficiency. Sight-reading skills, ear training, and music theory knowledge are stressed on a daily basis for this course. Members of this choir must also be able to demonstrate quality vocal skills and vocal tone comprehension. This ensemble performs at numerous MTHS concerts and choral festivals, both on and off campus, throughout the school year. Chorale students are eligible to audition for Madrigals, Vocal Jazz and other specialty groups, Solo & Ensemble Contest, ACDA festivals, and ILMEA District Choral Auditions.

CONCERT CHOIR

Year – 1.0 credit; Sophomore; Prerequisite: None

Concert Choir is an ensemble open to all sophomores. Sight-reading skills, ear training, and music theory knowledge will be reviewed on a daily basis for this course, as well as the addition of new mastery skills in these areas. Members of this choir will be working towards being able to demonstrate quality vocal skills and vocal tone comprehension. This ensemble performs at numerous MTHS concerts and choral festivals throughout the school year. Concert Choir students are eligible to audition for Madrigals, Vocal Jazz and other specialty groups, Solo & Ensemble Contest, ACDA Festivals, and ILMEA District Choral Auditions.

FRESHMAN CHOIR

Year – 1.0 credit; Any Freshman; Prerequisite: None

Freshman Choir is open to any freshman student at MTHS. Sight-reading skills, ear training, and music theory knowledge will be introduced and reviewed on a daily basis for this course. Members of this choir will be learning how to demonstrate quality vocal skills and vocal tone comprehension. This ensemble performs at numerous MTHS concerts throughout the school year. Treble Choir/Freshmen Men students are eligible to audition for Madrigals at the end of their freshman year, as well as other specialty groups. However, members of this choir will not be eligible for Solo & Ensemble Contest, ACDA Festivals, or ILMEA District Choral Auditions, until their Sophomore year.

GENERAL MUSIC/FINE ARTS

PIANO 1

SEM. 1 – 5200

SEM. 2 – 5200 (05107A000)

Semester - 0.5 credit; Junior/Senior; Prerequisite: None

Students learn to read music and study technique and style. Students gain an understanding of the piano and gain a basic level of proficiency. The class culminates with a group recital.

PIANO 2

SEM.1 – 5210

SEM. 2 – 5210 (05107A000)

Semester - 0.5 credit; Junior/Senior; Prerequisite: Piano 1

This course is a continuation of Piano 1. Students continue to work on technique, style and music reading ability. The class culminates with a group recital.

DRUMMING

SEM. 1 – 5230

SEM. 2 – 5230 (05109A000)

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: None

Students are introduced to the fundamentals, history and culture of drumming. The class studies snare drum, drum set, ethnic drums (from South America to West Africa) and steel drums. The class culminates with a group recital.

ACOUSTIC GUITAR

SEM. 1 – 5250

SEM. 2 - 5250 (05108A000)

Semester - 0.5 credit; Junior/Senior; Prerequisite: None

Students will learn to read music and study technique and style. Students gain an understanding of the instrument and gain a basic level of proficiency. The class culminates with a group recital.

MUSIC THEORY/HISTORY

SEM. 1 – 5301

SEM. 1 – 5301 (05113A000)

Semester - 0.5 credit; Junior/Senior; Prerequisite: Enrollment in Band or Choir

This course is aimed at the serious music student and students contemplating music as a career or further study in college. This course involves a study of the historical and theoretical concepts of music. At the end of Theory/History 2, the student will be prepared to take the Advanced Placement Test in music theory.

MUSIC THEORY/HISTORY

SEM. 2 – 5302 (05113A000)

Semester - 0.5 credit; Junior/Senior; Prerequisite: Music training and/or enrollment in Band or Choir

This course is a continuation of Theory/History 1. The work and format concludes with advanced composition and ear-training. At the end of Theory/History 2, the student will be prepared to take the Advanced Placement test in music theory.

PERFORMING ARTS**SEM. 1 – 5350****SEM. 2 – 5350 (05052A000)**

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: None

“Creativity” is the goal as this class explores various ways to express oneself through performance, be it a scene from a play, reciting a poem or monologue or body language. No textbook will be used for this course. Instead, a variety of methods such as games, scripts, notes, simulations, discussion, etc. will be employed. Students should gain in poise, self-awareness, critical awareness, and improve when auditioning for school, community or professional performances. Communication skills will be stressed.

Art 1 2D**SEM. 2 – 5360****SEM. 2 – 5360 (05154A000)**

Semester – 0.5 credit; Freshman/Sophomore/Junior/Senior; Prerequisite : None

This class is designed as an introduction to visual arts. This course can be used towards the Fine Arts credit required for graduation. The course will cover the elements of art and principles of design with textbook assignments, as well as “hands on” activities. The emphasis will be on drawing, painting, and other two dimensional forms of art. The curriculum is based on the National Standards of Visual Arts and the textbook “Art Talk.” Students will also be introduced to some history of art and the methods used in the criticism of a work of art. Students may be required to supply some basic tools and materials and pay a small lab fee.

ART 1 3D**SEM. 1 – 5370****SEM. 2 – 5370 (05154A000)**

Semester - 0.5 credit; Freshman/Sophomore/Junior/Senior; Prerequisite: None

3 Dimensional Design is a one-semester class for students looking to learn more about working three dimensionally. This class provides one semester of credit towards a student's fine arts graduation requirement. Students will learn the elements and principles of design. They will also be introduced to artists, past and present, whose work focuses on 3 dimensional presentations. They will critique sculptors, ceramists, and be introduced to innovative contemporary designers who work with newer more varied materials. Students will also create 3 dimensional pieces based on artists and cultures while working in a variety of media. Students may be required to supply some basic materials.

INTERMEDIATE ART 2D**SEM. 1 – 5380****SEM. 2 – 5380 (05154A000)**

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: Art 1 2D & Art 1 3D

This course is designed to strengthen a student's knowledge of the elements of art and principles of design through experimentation of various 2 dimensional media and techniques. This class is mainly for students who have shown proficiency or interest in art through their Art 1 classes. Students will also continue to strengthen their critical analysis of art works through written and oral critiques. Students may be required to supply some basic materials and pay a small lab fee.

INTERMEDIATE ART 3D**SEM. 1 – 5390****SEM. 2 – 5390 (05154A000)**

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: Art 1 2D & Art 1 3D

This course is designed to strengthen a student's knowledge of the elements of art and principles of design through experimentation with various 3 dimensional media and techniques. The 3 dimensional work will be on a much larger scale than in beginning 3D design, and the students will pay greater attention to creating a sculpture based on the materials provided and the concept given. Emphasis will be placed on expanding the student's knowledge of types of media that can be used to create a sculpture as well as thinking critically and executing ideas. This class is designed for students who have shown proficiency or interest in art through their Art 1 classes. Students will also continue to strengthen their ability to critically analyze works of art through written and oral critiques. Students may be required to supply some basic materials.

ADVANCED ART**SEM. 1 – 5401****SEM. 2 – 5402 (05154A000)**

Semester - 0.5 credit; Junior/Senior; Prerequisite: Intermediate Art 2D and/or 3D, Consent of Instructor

This class is designed for students who have shown proficiency or interest in visual art as exhibited in Art 1 and Intermediate Art classes. This class is set up as more of a studio environment, and students are expected to be able to work well independently. This classroom will also be conducted in a Fine Arts manner in which each student can work on his or her individual strengths and weaknesses in various areas of visual art. Students will be expected to do instructor designed projects, weekly sketchbook, journal and reading assignments and show daily progress towards these goals. They will also need to be able to discuss, interpret and judge works of art through oral and written critiques. There may be a small lab fee for the class, and students may need to provide certain materials necessary for their work that are above and beyond the normal materials provided.

SENIOR ART PORTFOLIO**SEM. 1 – 5410****SEM. 2 – 5410 (05170A000)**

Semester - 0.5 credit; Senior; Prerequisite: Advanced Art or Consent of Instructor

This class is designed for students who have exhibited proficiency or strong interest in visual art as exhibited in Art 1, Intermediate and Advanced Art classes. Students are expected to be able to work well independently and show continual progress. This classroom will also be conducted in a Fine Arts manner in which each student can work on his or her individual strengths and weaknesses in various areas of visual art. In addition to instructor designed projects, weekly sketchbook, journal and reading assignments, students will be expected to develop a portfolio and exhibit work in a Senior exhibit at the end of the year. They will also need to be able to discuss, interpret and judge works of art through oral and written critiques. There may be a small lab fee for the class, and students may need to provide certain materials necessary for their work that are above and beyond the normal materials provided. A portfolio is required by most universities and art schools for admission and/or scholarship consideration. Senior Art Portfolio should be the last high school art course taken by the student. While continuing to create work during the course, the Senior student will also be preparing a solid portfolio containing his/her best work. The student will also be required to write a personal artist's statement and exhibit examples of work in a Senior exhibition.

BLACK and WHITE PHOTOGRAPHY SEM. 1 – 5420 SEM. 2 - 5420 (05167A000)

Semester - 0.5 credit; Junior/Senior; Prerequisite: Overall GPA of "C" or Teacher Permission

This Junior/Senior level class provides one semester of fine arts credit. Students will learn the basics of good composition and subject choice. The class teaches "hands on" film development, allowing the student to watch the developing process and learn how to alter lighting and subject placement to create a more interesting image. Through the use of photography, students create works of art, as well as images that are photojournalistic in nature. This class and the vocational class, digital imaging, introduce the student to various professions using photography where strong artistic, journalistic and technical skills are needed. For this class, students are strongly encouraged to provide their own manual SLR camera.

BL. & WH. PHOTOGRAPHY II SEM. 1-5430 SEM. 2 – 5430 (05167A000)

Semester - 0.5 credit; Junior/Senior; Prerequisite: B&W Photography with a Grade of "A" and Consent of Instructor

This course is designed for students who have shown proficiency and maturity in the black and white photography classroom and would like to further their knowledge of camera and light manipulation. Students will be responsible for completing assignments on their own and helping out current black and white photography students in the darkroom and developing their film. Students will also continue to critique their own work and the work of professional photographers in order to gain a better understanding

of photography as an art form. For this class, students are strongly encouraged to provide their own manual SLR camera. Only a select amount of students will be allowed to take this course each semester.

	<u>Sophomore</u>	<u>Junior</u>	<u>Senior</u>
<i>German I (Y)</i>	<i>German I (Y)</i>	<i>German I (Y)</i>	<i>German I (Y)</i>
<i>Honors German I (Y)</i>	<i>German II (Y)</i>	<i>German II (Y)</i>	<i>German II (Y)</i>
<i>Spanish I (Y)</i>	<i>Honors German I (Y)</i>	<i>German III (Y)</i>	<i>German III (Y)</i>
<i>Honors Spanish I (Y)</i>	<i>Honors German II (Y)</i>	<i>Honors German I (Y)</i>	<i>German IV (Y)</i>
	<i>Spanish I (Y)</i>	<i>Honors German II (Y)</i>	<i>Honors German I (Y)</i>
	<i>Spanish II (Y)</i>	<i>Honors German III (Y)</i>	<i>Honors German II (Y)</i>
	<i>Honors Spanish I (Y)</i>	<i>Spanish I (Y)</i>	<i>Honors German III (Y)</i>
	<i>Honors Spanish II (Y)</i>	<i>Spanish II (Y)</i>	<i>Honors German IV AP (Y)</i>
		<i>Spanish III (Y)</i>	<i>Spanish I (Y)</i>
		<i>Honors Spanish I (Y)</i>	<i>Spanish II (Y)</i>
		<i>Honors Spanish II (Y)</i>	<i>Spanish III (Y)</i>
		<i># Honors Spanish III (Y)</i>	<i># Spanish IV (Y)</i>
		<i>Honors Spanish IV (Y)</i>	<i>Honors Spanish I (Y)</i>
			<i>Honors Spanish II (Y)</i>
			<i>Honors Spanish IV AP (Y)</i>

World Languages

- These two classes have the same curriculum but different names.

GERMAN I

SEM. 1 – 0811

SEM. 2 – 0812 (06201A000)

Year - 1.0 credit; All grade levels; Prerequisite: None

The students in German I will learn to respond to commands in the classroom setting. There will be an emphasis on grammar. The students will study the present tense of regular and irregular verbs. They will study the impact of gender on definite articles, indefinite articles, and possessives. They will also work with the nominative and accusative cases. They will be expected to read paragraphs containing the vocabulary being studied at the time, as well as be expected to write simple sentences. By the end of the year, they will have worked with some 750 words.

GERMAN II

SEM. 1 – 0821

SEM. 2 – 0822 (06202A000)

Year - 1.0 credit; Sophomore/Junior/Senior; Prerequisite: German I

The approach to German II will be essentially the same as all but the first six weeks of German I. The number of grammar concepts studied will be expanded. These will include the dative case, present perfect tense, demonstratives, subordinate clauses, two-way prepositions, and comparative and superlative forms. The readings will continue. Writing will be expanded to full paragraphs. By the end of this course, the students will have worked with a total vocabulary of 1,500 words.

GERMAN III SEM. 1 – 0831 SEM. 2 – 0832 (06203A000)

Year - 1.0 credit; Junior/Senior; Prerequisite: German II

This class is usually combined with Honors German II. When such is the case, the first semester is review. The second semester will incorporate the reading of short stories, as well as expanded grammar, including adjective endings, da- and wo- compounds, reflexive verbs, and the use of hätte and wäre. By the end of this course, the students will have worked with a total vocabulary of 2,000 words.

GERMAN IV SEM. 1 – 0841 SEM. 2 – 0842 (06204A000)

Year - 1.0 credit; Senior; Prerequisite: German III

This class is the same as Honors German III.

HONORS GERMAN I SEM. 1 – 0851 SEM. 2 – 0852 (06201A000)

Year - 1.0 credit; All Classes; Prerequisite: None

This course is the same as German I except that the students will be introduced to more grammar, including the dative case and the present perfect tense. The students in Honors I will have worked with a vocabulary of 1,000 words.

HONORS GERMAN II SEM. 1 – 0861 SEM. 2 – 0862 (06202A000)

Year - 1.0 credit; Sophomore/Junior/Senior; Prerequisite: Honors German I

This course is a logical extension of Honors German I. It covers all the work done in German III. It differentiates itself from German III in that the work done in the first semester involves far less review. The grammar and vocabulary are new. The second semester of Honors II is essentially identical to German III.

HONORS GERMAN III SEM. 1 – 0871 SEM. 2 – 0872 (06203A000)

Year - 1.0 credit; Junior/Senior; Prerequisite: Honors German II

Because this class is usually combined with German IV, the curriculum rotates from year to year. Both curricula involve a review of grammar, although the extent of that review will vary from one year to the next. They both involve working with grammar not covered in Honors II, most notably the subjunctive and relative pronouns. The biggest difference between Honors German III and Honors German II is the amount of reading required. This includes short stories and could include plays and novels. The students in this class are required to participate in the skit at the German Fest.

HONORS GERMAN IV SEM. 1 – 0881 SEM. 2 – 0882 (06204A000)

Year - 1.0 credit; Senior; Prerequisite: Honors German III

This course is the same as Honors German III except that the students will do a significant amount of assigned independent reading on which they will be regularly tested. As is the case with Honors German III, the students are required to participate in the German Fest skit.

SPANISH I**SEM. 1 – 0911****SEM. 2 – 0912 (06101A000)**

Year - 1.0 credit; All Classes; Prerequisite: None

This course has emphasis on pronunciation rules, the Spanish alphabet and useful classroom expressions. There is an intensive study of grammar, which includes sentence structure, vocabulary, translation, spelling, dictations, numbers, and negative expressions. The students will learn how to conjugate regular and irregular verbs in present tense. Students will write small paragraphs and converse, describing aspects of their daily lives. The workbook that accompanies the text, written compositions, and vocabulary quizzes will be used to enhance skills. There will also be one project due second semester on family members. The students will cover the first four units in book one of Descubre by Vista.

SPANISH II**SEM. 1 – 0921****SEM. 2 – 0922 (06102A000)**

Year - 1.0 credit; Sophomore/Junior/Senior; Prerequisite: Spanish I

The grammar covered is a continuation of the first year, plus the simple past tense. Major emphasis is on writing, listening comprehension and speaking. Students will be able to recount events orally and in writing, as well as understand stories told by others in Spanish. By the end of the year, they will have a working vocabulary of 2000 words. The workbook that accompanies the text, written compositions, and daily vocabulary quizzes will be used to enhance skills. The students will cover Units 5-9 in Descubre by Vista. A final project about a Hispanic country is assigned second semester.

SPANISH III**SEM. 1 – 0931****SEM. 2 – 0932 (06103A000)**

Year - 1.0 credit; Junior/Senior; Prerequisite: Spanish II

The grammar covered is a continuation of second year grammar, plus the use of commands, the subjunctive and perfect tenses. Students will also learn new information in the Spanish language, with reading, writing and speaking skills highlighted. Class objectives are to improve reading, speaking and writing skills while we learn about Hispanic culture. A final project about the history of Spain is assigned second semester.

HONORS SPANISH I**SEM. 1 – 0951****SEM. 2 – 0952 (06101A000)**

Year - 1.0 credit; All Classes; Prerequisite: None

This course is open to any student with the recommendation of an English or Language Arts Teacher. The class will move much more rapidly and consists of a more extensive study of grammar and vocabulary than Spanish I. The class is conducted entirely in Spanish, which enables the students to acquire the ability to understand and communicate the spoken language more efficiently. Writing exercises will include dictations, compositions and reading comprehension essays. The students will read short stories and passages in the book. A grammar notebook will be kept by the students, which contains all grammar points learned during the year. This course is the first step toward preparation for taking the Spanish AP exam (for college credit), which is given during the second semester of Honors Spanish IV.

HONORS SPANISH II**SEM. 1 – 0961****SEM. 2 – 0962 (06102A000)**

Year - 1.0 credit; Sophomore/Junior/Senior; Prerequisite: Honors Spanish I

The first two months are a review of the grammar of Honors Spanish I. The remainder of the year is spent on learning new grammar concepts (all tenses), reading and speaking more extensively and with more fluency. The emphasis is on listening comprehension and conversations. The grammar notebook will be continued as new concepts of grammar are learned. The students will also keep a journal during the year. As with Honors Spanish I, only Spanish is spoken in the classroom, and class participation is very important.

HONORS SPANISH III (SPANISH IV REGULAR) SEM. 1 – 0971**SEM. 2 – 0972 (06103A000)**

Year - 1.0 credit; Junior/Senior; Prerequisite: Honors Spanish II or Spanish III

This course includes a review of Spanish grammar, the reading of short stories, magazine and newspaper articles, the writing of various journal entries, and two oral/written projects. The students will also read a student version of Don Quixote. There is also a study of the culture, including geography, history and customs, of the Hispanic countries. The class is conducted entirely in Spanish. Activities for enhancing conversation will be role-playing, demonstration speeches with discussion, interviews, commercials and discussion of current events.

HONORS SPANISH IV**SEM. 1 – 0981****SEM. 2 – 0982 (06104A000)**

Year - 1.0 credit; Senior; Prerequisite: Honors Spanish III

This course is a continuation of Honors Spanish III. There will be a study of idioms and a continuation of the study of Hispanic culture through a written and oral project on a country. A short novel will be read and discussed. Journals are kept and conversation is enhanced through dialogue, role-playing, debates and current event discussions. Only Spanish is spoken in class. During the second semester of Honors Spanish IV, the students are able to take the Spanish AP exam. The students will have received the necessary practice and skills in preparation for the Spanish AP exam.

Family and Consumer Science:

FAMILY AND CONSUMER SCIENCE CLASSES

<u>Freshman</u>	<u>Sophomore</u>	<u>Junior</u>	<u>Senior</u>
Family & Consumer Science 1 (S)			
Family & Consumer Science 2 (S)			
	Individualized Sewing (S)	Individualized Sewing (S)	Individualized Sewing (S)
	Interior Design 1 (S)	Interior Design 1 (S)	Interior Design 1 (S)
	Interior Design 2 (S)	Interior Design 2 (S)	Interior Design 2 (S)
	Child Development (S)	Child Development (S)	Child Development (S)
	Child Care Services (S)	Child Care Services (S)	Child Care Services (S)
	Food Science 1 (S)	(double period)	(double period)
	Food Science 2 (S)	Food Science 1 (S)	Food Science 1 (S)
		Food Science 2 (S)	Food Science 2 (S)
		Chef/Restaurant (S)	Chef/Restaurant (S)
		(double period)	(double period)
		**Parenting (S)	**Parenting (S)
			*^Independent Living (S)

** This class is offered in Fall Semester only.

*^ This class is offered in Spring Semester only.

FAMILY & CONSUMER SCIENCE PART 1 SEM. 1 – 6300 SEM. 2 – 6300(16054A001)

Semester - 0.5 credit; Freshman/Sophomore; Prerequisite: None

This is an introductory course exploring foods, nutrition and wellness. Topics will cover the following: wellness choices, food and kitchen safety, food interactions with the body, nutrition through the life cycle and smart food choices.

FAMILY & CONSUMER SCIENCE PART 2 SEM. 1 – 6310 SEM. 2 – 6310(22201A001)

Semester - 0.5 credit; Freshman/Sophomore; Prerequisite: None

This course explores clothing, textiles, interior design and family relationships. Clothing and Textiles will cover the following: clothing selection and personal appearance, clothing styles and fashions, clothing maintenance and repair, design of clothing, buying clothing, clothing fibers and fabrics and introduction to machine sewing and preparation for sewing of garments. Interior design will explore basic principles design as applied to home decorating. Family relationships will cover: an introduction to caring for young children, children's needs, relationships between children and parents, relationships with friends and other people, how you see yourself and how others see you.

FOOD SCIENCE 1**SEM. 1 – 6321 (22203A001)***Semester - 0.5 credit; Sophomore/Junior/Senior Prerequisite: None**This course combines laboratory and classroom experiences in foods, nutrition, safety and sanitation. In Food Science I, the students begin to work through the Food Guide Pyramid. The topics covered are: grain products, vegetables, fruit, dairy and eggs.***FOOD SCIENCE 2****SEM. 2 – 6322 (22203A001)***Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: Food Science 1**This course combines further laboratory and classroom experiences in more advanced study. In Food Science II, the students complete a study of the Food Guide Pyramid. The topics covered are: meat, poultry, combination cooking, bread and dessert.***INTERIOR DESIGN 1****SEM. 1 – 6340****SEM. 2 – 6340 (22211A001)***Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: None**This course will emphasize how human needs affect home design, study of the elements and principles of design, develop beginning skills in blueprint reading and drafting, American architectural styles from colonial to modern times, evaluation of homes, livability and knowledge of home construction as required of the interior designer. Various occupational opportunities in the housing industry will be investigated.***INTERIOR DESIGN 2****SEM. 1 – 6350****SEM. 2 – 6350 (22211A001)***Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: None**This course covers the importance of interior design in our lives, use of color schemes in the home, establishing backgrounds by choosing floor, wall and ceiling treatments, and a study of the period styles of furniture. The student will also know quality furniture construction, current trends, furniture arrangement, use of accessories and planning of window treatments. Students will become familiar with the various job opportunities in this aspect of the housing industry.***INDIVIDUALIZED SEWING****SEM. 1 – 6360****SEM. 2 – 6360 (19201A001)***Semester - 0.5 credit; Grades 10-12th ; May be taken a maximum of four times; Prerequisite: Family and Consumer Science 2 or teacher permission**Upon entering this course, the student's experience/expertise will be evaluated to determine appropriate construction projects for the student's skill level. Each subsequent semester in the course will reflect new skills/knowledge for the individual student.***PARENTING****SEM. 1 – 6371 (22204A001)***Semester - 0.5 credit; Junior/Senior; Offered Fall semester only; Prerequisite: None**This course covers the basic information regarding the parenting of children. The role of the parent is explored fully, beginning with the joys, responsibilities and readiness for parenthood and following through with the needs and concerns involved in parent-child interaction at each stage of development. Practical techniques of parenting will be included. For example, a study of health and safety, guidance, nutrition and feeding and day care are discussed. Lastly, contemporary issues are explored. Included will be the effects of divorce, death and dying, stress and television on the child's development.*

MATHEMATICS

Math Department Transition to the Common Core State Standards

In June of 2010, the Illinois State Board of Education adopted the Common Core State Standards for English-Language Arts and Mathematics. These Standards were designed to better prepare Illinois students for success in college and the workforce in a competitive global economy. The MTHS Mathematics Department is in the process of making the curriculum changes necessary to align our current curriculum to the Common Core State Standards. These changes will be made over the course of several years.

Although the transition to the Common Core State Standards may be an intimidating endeavor, the changes MTHS is making demonstrate a willingness to take a leadership role in the process. MTHS already has two key components suggested for the transition in place: math tutor hall and professional learning communities. Building upon these two elements of a Common Core Curriculum, the mathematics department began implementing changes starting with the 2012-2013 school year.

An underlying theme to the Common Core State Standards is to raise expectations for all students. These new standards provide the mathematics department the ability to ensure equitable access to college and career ready content through instruction and assessment changes. “Watered-down courses which leave students uninspired to learn, unable to catch up to their peers and unready for success in postsecondary courses or for entry into many skilled professions upon graduation from high school are neither necessary nor desirable. The results of not providing students the necessary supports they need to succeed in high school are well-documented. Too often, after graduation, such students attempt to continue their education at two – or four – year postsecondary institutions only to find they must take remedial courses, spending time and money mastering high school level skills that they should have already acquired. This, in turn, has been documented to indicate a greater chance of these students not meeting their postsecondary goals, whether a certificate program, two- or four – year degree. As a result, in the workplace, many career pathways and advancement may be denied to them. To ensure students graduate fully prepared, those who enter high school underprepared for high school mathematics courses must receive the support they need to get back on course and graduate ready for life after high school. Furthermore, research shows that allowing low-achieving students to take low-level courses is not a recipe for academic success. The research strongly suggests that the goal for districts should not be to stretch the high school mathematics standards over all four years. Rather, the goal should be to provide support so that all students can reach the college and career ready line by the end of the eleventh grade, ending their high school career with one of several high-quality mathematical courses that allows students the opportunity to deepen their understanding of the college- and career-ready standards.” (http://www.corestandards.org/assets/CCSSI_Mathematics_Appendix_A.pdf p.5.).

COMMON CORE COURSE PHASE-IN

2012-2013 School Year	Algebra I	Enriched Algebra I	Honors Geometry
2013-2014 School Year	Geometry	Honors Algebra II	
2014-2015 School Year	Algebra II	Honors AP Statistics	Honors Pre-Calculus
2015-2016 School Year (and beyond)	*Discrete	*Trigonometry	Honors AP Calculus BC

*** These courses will be modified.**

RATIONALE: Students entering high school during the 2012-2013 school years were the first group of students tested using the PARCC Assessment system. In order for these students to be prepared for this testing, they should begin high school in courses aligned to the Common Core State Standards. Students currently in courses aligned to the previous State Standards will continue their course of study so as to not create gaps in their learning in preparation for the current assessment systems. In addition to the consideration of the students, the phase-in process of the Common Core State Standards will allow the math department to focus professional learning community and school improvement in service efforts each year.

GRAPHING CALCULATOR IMPLEMENTATION

“Strategic use of technology is expected in all work. This may include employing technological tools to assist students in forming and testing conjectures, creating graphs and data displays and determining and assessing lines fit for data. Geometric constructions may also be performed using geometric software, as well as classical tools and technology may aid three-dimensional visualization. Testing with and without technological tools is recommended.”

(http://www.corestandards.org/assets/CCSSI_Mathematics_Appendix_A.pdf p.3).

As indicated in the course descriptions, graphing calculator requirements will be part of the Common Core curriculum changes. As the course changes are progressing from freshman through senior level courses, students would be making a three-year minimum investment. Students who are on free and reduced lunch who find the cost of these graphing calculators too burdensome will be offered the opportunity to check out a TI-nspire CX through the MTHS library. Refer to the math department web page for more information on this prior to the start of the 2016-2017 school year.

MATHEMATICS COURSE SEQUENCES

The following represent the typical course sequences offered. Departure from these sequences is possible, but would require department approval. Prerequisite requirements for each course are listed in the course descriptions.

<i>1st Year Course</i>	<i>Algebra I</i>	<i>Enriched Algebra I</i>	<i>Honors Geometry</i>
<i>2nd Year Course</i>	<i>Geometry</i>	<i>Honors Geometry</i>	<i>Honors Algebra II</i>
<i>3rd Year Course</i>	<i>Algebra II</i>	<i>Honors Algebra II</i>	<i>Honors Pre-Calculus and/or Honors AP Statistics or Honors AP Calculus AB</i>
<i>4th Year Course</i>	<i>Trigonometry and/or Discrete Mathematics or Honors AP Statistics</i>	<i>Honors Pre-Calculus and/or Honors AP Statistics and/or Honors AP Calculus AB</i>	<i>Honors AP Calculus BC or Honors Pre-Calculus and/or Honors AP Statistics and/or Honors AP Calculus AB</i>

COURSE DESCRIPTIONS: 2016 -2017

In June of 2010, the Illinois State Board of Education adopted the Common Core State Standards for Mathematics. The MTHS Mathematics Department is currently in the process of transitioning the curriculum and course offerings to reflect these new standards.

Note: Courses marked below as ‘Enriched’ are not weighted. Courses marked ‘Honors’ are weighted.

Note: Courses marked below as “Enriched” or “Honors” have required summer review packets.

ALGEBRA I**SEM. 1 – 2051****SEM. 2 – 2052 (02052A000)***Year – 1.0 credit; Freshman; Prerequisite: None*

The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. The major units (Relationships Between Quantities and Reasoning with Equations, Linear and Exponential Relationships, Descriptive Statistics, Expressions and Equations, Quadratic Functions and Modeling) presented deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards apply throughout this course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Students are required to have a Graphing Calculator (TI-nspire) for this course.

ENRICHED ALGEBRA I**SEM. 1 – 2081****SEM. 2 – 2082 (02052A000)***Year – 1.0 credit; Freshman; Prerequisite: Test score and grade school teacher recommendation*

The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. This is a non-weighted course offered as a 1st year Algebra course for students who may choose the Honors sequence their sophomore year. The major units (Relationships Between Quantities and Reasoning with Equations, Linear and Exponential Relationships, Descriptive Statistics, Expressions and Equations, Quadratic Functions and Modeling) presented deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards apply throughout this course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Students are required to have a Graphing Calculator (TI-nspire) for this course.

GEOMETRY**SEM. 1 – 2271****SEM. 2 – 2272 (02072A000)***Year – 1.0 credit; Freshman, Sophomore; Prerequisite: Algebra I*

The fundamental purpose of this course is to formalize and extend students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Transformations are emphasized early in this course. The Mathematical Practice Standards apply throughout this course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. The major units are as follows: Congruence, Proof, and Constructions, Similarity, Proof, and Trigonometry, Extending to Three Dimensions, Connecting Algebra and Geometry through Coordinates, and Circles With and Without Coordinates. Students are required to have a Graphing Calculator (TI-nspire) for this course.

HONORS GEOMETRY**SEM. 1 – 2281****SEM. 2 – 2282 (02072A000)**

Year – 1.0 credit; Freshman/Sophomore; Prerequisite: Enriched Algebra I, Algebra I with test score and grade school teacher recommendation or consent of high school department

The fundamental purpose of this weighted course is to formalize and extend students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments.

Transformations are emphasized early in this course. The Mathematical Practice Standards apply throughout this course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. The major units are as follows: Congruence, Proof, and Constructions, Similarity, Proof, and Trigonometry, Extending to Three Dimensions Connecting Algebra and Geometry through Coordinates, Circles With and Without Coordinates, and Applications of Probability. There are 8 additional Common Core Standards covered in this course as compared to regular Geometry. Students are required to have a Graphing Calculator (TI-nspire) for this course.

ALGEBRA II**SEM. 1 – 2511****SEM. 2 – 2512(02056A000)**

Year – 1.0 credit; Junior; Prerequisite: Geometry

Building on their work with linear, quadratic, and exponential functions from Algebra I, in this course students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout this course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. The major units for this course are as follows: Polynomial, Rational, and Radical Relationships, Trigonometric Functions, Modeling with Functions, and Inferences and Conclusions from Data. Students are required to have a Graphing Calculator (TI-nspire) for this course.

HONORS ALGEBRA II w. Trig.**SEM. 1 – 2521****SEM. 2 – 2522 (02106A000)**

Year – 1.0 credit; Sophomore/Junior; Prerequisite: Honors Geometry or Geometry with consent of department

Building on their work with linear, quadratic, and exponential functions from Algebra I, in this weighted course students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout this course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. The major units for this course are as follows: Polynomial, Rational, and Radical Relationships, Trigonometric Functions, Modeling with Functions, and Inferences and Conclusions from Data. There are 6 additional Common Core Standards covered in this course as compared to regular Algebra II. Students are required to have a Graphing Calculator (TI-nspire) for this course.

HONORS AP CALCULUS AB SEM. 1 – 2791**SEM. 2 – 2792 (02124A000)**

Year - 1.0 credit; Junior/Senior; Prerequisite: Honors Algebra II; may be taken concurrently with Discrete Mathematics or Honors AP Statistics.

Four major concepts of calculus will be mastered: limit, derivative, definite integral, and indefinite integral. For each concept, students will have an understanding of what the concept means, be able to "do" the concept, and be able to apply it in the real world. This knowledge will be exhibited numerically, graphically, algebraically and verbally. A graphing calculator (TI-nspire) is required for this course. This weighted course will prepare students to take the Advanced Placement exam in May (Calculus AB), in order to obtain college credit (Note: The AP Calculus AB exam is generally equivalent to a college Calculus I course.) Estimated time per week outside of class is 4 to 5 hours.

HONORS AP CALCULUS BC SEM. 1 -2811**SEM.2 – 2812(02125A000)**

Year – 1.0 credit; Senior; Prerequisite: Honors Pre-Calculus with a minimum B-; not intended for students who have had Honors AP Calculus AB; may be taken concurrently with Discrete Mathematics or Honors AP Statistics.

Following the College Board's suggested curriculum designed to parallel college-level calculus courses, AP Calculus BC courses provide students with an intuitive understanding of the concepts of calculus and experience with its methods and applications, and also require additional knowledge of the theoretical tools of calculus. These courses assume a thorough knowledge of elementary functions, and cover all of the calculus topics in AP Calculus AB as well as the following topics: vector functions, parametric equations, and polar coordinates; rigorous definitions of finite and nonexistent limits; derivatives of vector functions and parametrically defined functions; advanced techniques of integration and advanced applications of the definite integral; and sequences and series. A graphing calculator (TI-nspire) is required for this course. This weighted course will prepare students to take the Advanced Placement exam in May (Calculus BC), with the opportunity to obtain college credit (NOTE: The AP Calculus BC exam is generally equivalent to college Calculus I and Calculus II courses). Estimated time per week outside of class is 5 to 6 hours.

PHYSICAL EDUCATION**SEM. 1 – 7001 (Girls)****SEM. 2 – 7002 (Girls) (08001A000)****SEM. 1 – 7011 (Boys)****SEM. 2 – 7012 (Boys) (08001A000)**

Semester - 0.25 credit; All grade levels; Required Class

Freshman students will take one semester of Physical Education or Driver Education and one semester of Health Education. All other students are required to take a full year of Physical Education each year except those who bring an excuse from a physician. It is the purpose of the Physical Education staff to provide the students with the knowledge and attitudes needed to achieve a healthy lifestyle throughout their lives and to acquire physical fitness, coordination and leisure skills. The philosophy of this program is to ensure participation in the varying activities in order to develop interest and fulfill the objectives. Students will be graded on participation and written knowledge.

The Physical Education Department will:

- 1. Provide every student the opportunity to develop a strong, healthy body*
- 2. Encourage good health habits*
- 3. Teach the social values inherent in competitive activities*
- 4. Teach the basic principles of exercise and fitness*
- 5. Teach students how to develop a personal fitness plan*

The high school years are a tremendously important period in the development of each student, physically as well as mentally and emotionally. A healthy body enables one to more fully enjoy all aspects of living and assures a greater likelihood of success in any worthwhile undertaking. We urge every student to become thoroughly involved in our daily program, which encompasses a wide variety of activities. Regular, enthusiastic participation is the pathway to a longer life and a more satisfying existence.

MEDICAL PHYSICAL EDUCATION

Semester or less

Students who are given a medical excuse from a physician, which takes them out of physical education for a semester, will be placed in a study hall. No credit will be given to the student unless written portfolio work is completed.

Students who are given a medical excuse from a physician, which takes them out of physical education for less than a semester, are required to do written portfolio work. Portfolios are interesting articles, each relating to sport, fitness, or wellness topics. Each portfolio is a weekly assignment of reading with true-false and multiple-choice test questions at the end of each week's reading assignment. This assignment will be worked on during physical education class. Work done from the portfolio will be averaged with regular physical education class work when a student returns to normal activity.

CHEMISTRY I**SEM. 1 – 3261****SEM. 2 – 3262 (03101A000)**

Year - 1.0 credit; Sophomore/Junior/Senior; Prerequisite: Biology I, Algebra I, or minimum concurrent enrollment in Algebra I.

This course is open to Sophomores, Juniors, and Seniors who need a full year of Chemistry to prepare for a non-science or science-related career and/or who want a better understanding of their physical world. Major topics covered include scientific method and measurement, classification of matter, properties and changes, chemical formulas, types of reactions, chemical calculations (moles and stoichiometry), atomic structure, the periodic table, bonding, phases of matter, solutions, acid-base behavior and an introduction to the chemistry of life. Laboratory work is included with most topics to reinforce the concepts presented and to teach fundamental laboratory techniques.

HONORS CHEMISTRY I**SEM. 1 – 3271****SEM. 2 – 3272 (03101A000)**

Year - 1.0 credit; Sophomore/Junior/Senior; Prerequisite: Honors Biology I and one of these math courses: Algebra I, Enriched Algebra I, or Honors Geometry. Teacher consent is also acceptable.

Major topics covered include scientific method and measurement, classification of matter, properties and changes, chemical formulas, types of reactions, chemical calculations (moles and stoichiometry), atomic structure, the periodic table, bonding, phases of matter, solutions, and acid-base behavior. Topics in Honors Chemistry I will be enhanced through additional work with problem solving, critical thinking and laboratory exercises. Students will be expected to analyze data and draw accurate conclusions based on their work.

INTEGRATED SCIENCE**SEM. 1 – 3601****SEM. 2 – 3602 (03201A000)**

Year - 1.0 credit; Junior/Senior; Prerequisite: Chemistry I

Enrollment in this class is based on teacher recommendation and PLAN test scores. Topics covered include earth science, the ocean, the atmosphere, weather, climate, ecology and astronomy. Lab activities will reinforce the scientific method and experimental design. Students will be required to use appropriate measurement methods, analyze results, draw conclusions based on evidence, and communicate their methods and results. Special attention will be given to the relationship between science, technology and daily life in order to predict the effects of scientific discovery on society.

PHYSICS I**SEM. 1 – 3741****SEM. 2 – 3742 (03151A000)**

Year - 1.0 credit; Junior/Senior; Prerequisite: Chemistry I and Alg. II or concurrent enrollment in Alg. II

This course is designed to improve student understanding of physics in everyday life. Laboratory exercises will be incorporated to provide reinforcement and real-world application of each topic of study. Mathematics will be applied to basic physical problems. Topics in mechanics, waves, and electricity will be studied in moderate depth.

HONORS PHYSICS I**SEM. 1 – 3751****SEM. 2 – 3752 (03151A000)**

Year - 1.0 credit; Junior/Senior; Prerequisite: Honors Chemistry I and concurrent enrollment in Alg. II/Trig.

This is a weighted course designed for students who are considering careers in science or engineering, or who are interested in developing a thorough understanding of the patterns of nature involving matter and energy. Considerable emphasis will be placed on laboratory work, often utilizing sophisticated equipment and an inquiry approach. Principles of mathematics will be applied to challenging physical problems. Topics in mechanics, thermodynamics, waves, and electricity will be studied in depth.

HONORS PHYSICS II SEM. 1 – 3761 SEM. 2 – 3762 (03152A000)

Year - 1.0 credit; Senior; Prerequisite: Physics I

This is a weighted algebra-based course designed for students who intend to continue their education in the physical sciences, such as chemistry, physics, engineering, medical field, etc. The course topics include stress and strain, fluids, electric fields, magnetism, electricity, DC and AC circuits, relativity, quantum theory and nuclear physics. Estimated time outside of class per week is three hours.

HONORS CALCULUS-BASED PHYSICS SEM. 1 – 3811 SEM. 2 – 3812 (03152A000)

Year – 1.0 credit; Senior; Prerequisite: Honors Physics I (B or better) and concurrent enrollment in calculus.

This weighted course is offered as a one-year course equivalent to the first semester of calculus-based physics for college Freshmen science or engineering majors. Topics covered include all areas of introductory mechanics with strong emphasis on a small number of fundamental principles: the momentum principle (a general form of Newton's second law), the energy principle and the angular momentum principle. The course also emphasizes modeling physical systems, partly through computer programming. Estimated time outside of class per week is five hours.

BIOLOGY II SEM. 1 – 3771 SEM. 2 – 3772 (03063A000)

Year - 1.0 credit; Senior; Prerequisite: At least three of the following courses: General Science, Biology I, Chemistry I, Integrated Science, or Physics I

This course is designed to prepare students for a Freshman level college biology course. Four main areas will be covered: botany, zoology, genetics and ecology. Lectures and various lab activities will be presented for each topic.

HONORS CHEMISTRY II SEM. 1-3780 SEM. 2 – 3780 (03102A000)

Semester - 1.0 credit (1 sem., two periods a day); Senior; Prerequisite: Chemistry I, Physics strongly recommended

This is a weighted course, which uses a standard college/AP textbook. The following topics are covered in depth: stoichiometry, thermochemistry, atomic structure and theory, periodic behavior, bonding, molecular structure, chemical reactions, oxidation-reduction, kinetic theory and the phases of matter, solutions, reaction kinetics, and chemical equilibrium.

HONORS HUMAN ANATOMY AND PHYSIOLOGY SEM. 1-3790 SEM. 2 – 3790 (03053A000)

Semester - 1.0 credit (1 sem., two periods a day); Senior; Prerequisite: Biology I and Chemistry I

This is an intense-paced course for students interested in a medical career. The class is designed for the college-bound student but will benefit everyone with everyday living. This course is the study of the structure and function of the human body. Students will learn what the body is made of and how these structures work. The eleven human body systems will be covered. Numerous labs will be completed, which will include dissections of various organs, as well as the complete anatomy of the cat.

HUMAN ANATOMY AND PHYSIOLOGY SEM. 1 3801 SEM. 23802 (03053A000)

Year-1.0 credit; Senior; Prerequisite: Biology I and Chemistry I

This is a course for students possibly interested in a medical career but not ready for the Honors Class pace. Study skills & methods will be introduced to help prepare students for Health Career College courses. This course is the study of the structure and function of the human body. Students will learn what the body is made of and how these structures work. The eleven human body systems will be covered. Numerous labs will be completed, which will include dissections of various organs, as well as the complete anatomy of the cat.

SOCIAL STUDIES

SOCIAL STUDIES DEPARTMENT CLASSES

<u>Freshman</u>	<u>Sophomore</u>	<u>Junior</u>	<u>Senior</u>
<i>Civics/American Studies (S)</i> <i>World Comparative Studies (S)</i>	<i>World History (Y)</i> <i>AP World History (Y)</i>	<i>U.S. History (Y)</i> <i>AP U.S. History (Y)</i> <i>AP World History (Y)</i>	<i>AP U.S. History (Y)</i> <i>Honors Psychology (S)</i> <i>Contemporary Issues (S)</i> <i>Human Relationships (S)</i> <i>AP World History (Y)</i>

Civics/American Studies

SEM. 1 – 4001 (04151A000)

Semester – 0.5 credit; Freshman; Required Course

This course will help young people acquire and learn to use the skills, knowledge, and attitudes that will prepare them to be competent and responsible citizens throughout their lives. The course will provide content that focuses on government institutions, the discussion of current and controversial issues, service learning, and simulations of the democratic process. In addition, it will provide information on pivotal American documents, legislation, and legal landmark issues, including the Declaration of Independence, U.S. Constitution, and Supreme Court cases. Other topics include discussion of state and local government, separation of powers, and checks and balances. The U.S. Constitution/government test will be administered during this course.

World Comparative Studies

SEM.2 - 4022 (04001A000)

Semester – 0.5 credit, Freshman; Required Course

Through a comparative examination of political, economical, environmental, and demographic standards, students will develop 21st century skills that will allow them to excel in an interrelated world. Students will be challenged to compare and contrast their knowledge of the basic U.S. political and economic functions with other countries and continents globally. In addition, learners will recognize how geography impacts their daily lives and the daily lives of billions around the world. Students will describe, discuss, analyze, and collaborate on global issues and strive to find solutions to international problems through the use of technology, primary source data, map and chart skills, and interpersonal communication. Also, students will understand and identify cultural and regional differences between the U.S. and other countries, and use common core standards to gain a better understanding of their role and place in our world. Continent destinations in this course will include South America, Europe, Asia, Australia, and Africa.

WORLD HISTORY

SEM. 1 – 4261

SEM. 2 – 4262 (04051A000)

Year - 1.0 credit; Sophomore; Required Course

World History is a two-semester course that will study the major events, cultures and people that have influenced the world. The first semester will begin with the ancient civilizations of Mesopotamia and Egypt and conclude with the middle ages. The second semester will emphasize the modern world with attention paid to the Renaissance, emerging nations, revolutions, industrialization and imperialism. This course will stress critical thinking and the connections between the past and the present.

AP HONORS WORLD HISTORY SEM.1 - 4271**SEM. 2 -4272 (04057A000)**

Advanced placement is an honors course available to all sophomores who are recommended by their freshman history teacher. The course is designed to be equivalent to a World History 101 course in college; therefore, the emphasis will be placed on the student's ability to reason, decipher challenging text, interpret primary sources, and write critical responses. The timeline of the course will be from the earliest humans (8000 BC) to the present day. It will be a two semester course for a high school honor's credit, and students are expected to take and pass the AP exam in late May.

U.S. HISTORY**SEM. 1 – 4511****SEM. 2 – 4512 (04101A000)**

Year - 1.0 credit; Junior; Required Course

U.S. History is a survey course of 20th Century America. It begins just prior to the 1900's and covers topics such as World War I, The Great Depression, World War II, The Cold War, The Korean Involvement, The Vietnam Conflict, the social and political movements of the 1950's and 60's, Watergate, and the Reagan Era. Throughout these periods, the course will examine the political, social, and intellectual changes that shape the United States today. Emphasis will be placed on improving academic skills for the student, while gaining literacy, writing and critical thinking skills to build background knowledge that allows our students to become better educated citizens.

AP Honors U.S. HISTORY**SEM. 1 – 4521****SEM. 2 – 4522 (04104A000)**

Year - 1.0 credit; Junior; Elective Course

Advanced placement is an honors course available to all juniors and also seniors who are recommended by their junior year history teacher. The course is designed to be equivalent to a US History 101 course in college; therefore, the emphasis will be placed on the student's ability to reason, decipher challenging text, interpret primary sources, and write critical responses. The timeline of the course will be from the migration of the Native Americans across the Bering Strait through the Reagan Revolution. It will be a two semester course for high school honor's credit, and students are expected to take and pass the AP exam in late May.

HONORS PSYCHOLOGY**SEM. 1 – 4790****SEM. 2 – 4760 (04254A000)**

Semester - 0.5 credit; Senior; Prerequisite: None

This is an introductory survey class of psychology available only to seniors. Areas explored include the history of psychology, methods of research, present-day approaches to analyzing human behavior, sensation and perception, abnormal behavior, states of consciousness, child development, memory, intelligence and creativity, theories of personality, learning, and social psychology. Emphasis is placed on the understanding of psychological concepts and understanding yourself and others around you.

CONTEMPORARY ISSUES SEM. 1 – 4770**SEM. 2 – 4770 (04106A000)**

Semester - 0.5 credit; Senior; Prerequisite: None

What does your world look like? Why does society function the way it does, and what are the pressing issues facing young adults growing up in today's world? From politics to entertainment, this class will explore many of today's hot topics with special emphasis on critical thinking and informed discussion.

HUMAN RELATIONSHIPS SEM. 1 – 4780

SEM. 2 - 4780 (04106A000)

*Semester - 0.5 credit; Senior, (Junior with special permission from the instructor); Prerequisite: None
What makes humans happy? According to studies, it is our relationships with other people. This exciting, relevant course will explore ways to make our relationships deeper and more meaningful. Learn why we do the things we do and how we can become better friends, family members, and spouses. This might be the most important class you will take before leaving high school.*

SPECIAL EDUCATION

SPECIAL EDUCATION CLASSES

Note: Special Education classes are offered on a rotating year basis depending on total enrollment in the program. Possible classes offered per grade as per IEP meeting.

<u>Freshman</u>	<u>Sophomore</u>	<u>Junior</u>	<u>Senior</u>
Reading Lab (Y)	Reading Lab (Y)	English Three (Y)	English Four (Y)
English One (Y)	English Two (Y)	United States History (Y)	Vocational Ed. 2 (Y)
Science One (Y)	Science One (Y)	Math Three (Y)	Work Study 2 (Y)
Social Studies One (Y)	Science Two (Y)	Science Two (Y)	Health Education (S)
Math One (Y)	Social Studies One (Y)	Vocational Ed 1 (Y)	Adapted PE (Y)
Pre-Algebra (Y)	United States History (Y)	Career Comm. (S)	Resource Study Hall (S)
Health Education (S)	Math Two (Y)	Career Exploration (S)	Reading Lab (Y)
Work Study 1 (Y)	Pre-Algebra (Y)	Living Independently 1 (S)	General Keyboarding (S)
Adapted PE (Y)	Health Education (S)	Living Independently 2 (Y)	Living Independently 1 (S)
Resource Study Hall (S)	Living Independently 1 (S)	Health Education (S)	Living Independently 2 (Y)
General Keyboarding (S)	Career Exploration (S)	Work Study 1 (Y)	
Living Independently 1 (S)	Career Communication (S)	Adapted PE (Y)	
Career Exploration (S)	Work Study 1 (Y)	Resource Study Hall (S)	
Career Communication (S)	Adapted PE (Y)	Reading Lab (Y)	
General Keyboarding (S)	Resource Study Hall (S)	General Keyboarding (S)	
	General Keyboarding (S)		

PRE-ALGEBRA

SEM. 1 – 8001

SEM. 2 – 8002 (02051A000)

Year - 1.0 credit; Freshman/Sophomore; as determined by IEP; Prerequisite: None

This math course is intended to give students basic skills in algebra. The emphasis of this course will be to review basic operations and to introduce the students to algebra concepts.

MATH ONE

SEM. 1 – 8011

SEM. 2 – 8012 (02002A000)

Year - 1.0 credit; Freshman/Sophomore; as determined by IEP; Prerequisite: None

This practical math course is intended to teach students to use math to solve everyday problems in home and work situations. The emphasis is on development of everyday math concepts and skills, such as savings accounts, checking accounts, wages and shopping to save, using basic math concepts.

MATH TWO

SEM. 1 – 8021

SEM. 2 – 8022(02001A000)

Year - 1.0 credit; Sophomore/Junior; as determined by IEP; 2 Year Sequence; Prerequisite: Math One.

This math course is intended to continue teaching math skills students will use every day. The emphasis is on everyday math concepts and skills, such as basic money use, finding area to figure amount of paint, estimation of price, basic fraction usage, figuring discounts and buying on credit.

Math Three (Consumer Math) SEM. 1 – 8031 SEM. 2 – 8032 (02001A000)
Year – 1.0 credit; Junior/Senior; as determined by IEP; 3 Year Sequence; Prerequisite: Math One
This math course is intended to continue teaching practical math skills used in daily living. The emphasis is on everyday math skills that reinforce realistic, consumer-oriented applications such as couponing, comparing units, net pay, planning a trip, and counting calories.

ENGLISH ONE SEM. 1 – 8041 SEM. 2 – 8042 (01001A000)
Year - 1.0 credit; Freshman as determined by IEP; Prerequisite: None
This class provides students with the opportunity to further develop reading, writing, spelling, vocabulary, grammar, and communication skills. Reading and writing skills will be emphasized throughout the year, with particular attention being placed on reading and writing fluency and comprehension. This class is modeled after the Mastery level of the FAME Reading Program, as developed by Girls and Boys Town Reading Center.

English Two SEM. 1 – 8051 SEM. 2 – 8052 (01001A000)
Year - 1.0 credit; Sophomore as determined by IEP; Prerequisite: None
This course reinforces reading and writing as ways to discover and solve problems. It requires students to read widely and expand their background knowledge through research. It provides multiple opportunities to practice study skills and problem solving strategies, including note taking, outlining, summarizing, paraphrasing, and vocabulary building. This class is modeled on the explorations level of the FAME reading Program, as developed by Girls and Boys Town Reading Center.

ENGLISH THREE SEM. 1 – 8061 SEM. 2 – 8062 (01156A000)
Year - 1.0 credit; Junior; as determined by IEP; Prerequisite: None
This course is intended to provide students with communication skills for successful transition to adult life. Language skills and grammar usage will be reviewed. There will be an emphasis on vocabulary development, as well as paragraph and essay writing. Reading will include novels and short stories with an application to real life situations.

ENGLISH FOUR SEM. 1 – 8071 SEM. 2 – 8072(01156A000)
Year - 1.0 credit; Senior; as determined by IEP; Prerequisite: None
This course is intended to teach the application and use of language and communication skills previously taught. Emphasis will be on technical reading, writing, and everyday communication skills. There will be a review of job seeking and job preparation skills and writing and reading for independent living.

READING ONE SEM. 1 – 8081 SEM 2 - 8082 (01068A000)
Year – 1.0 credit; All grade levels; as determined by IEP; Enrollment based on test scores
This course is developed for individual students who must/need to improve reading scores to meet MTHS SIP (school improvement plan) goals, and develop functional reading skills. A variety of specialized instructional strategies will be used as determined by the needs of the student. They will include increasing vocabulary, decoding words, and improving fluency of reading and comprehension. This class may be repeated.

WORK STUDY 2**SEM. 1 – 8171****SEM. 2 – 8172 (22004A001)**

Year - 1.0 credit; Qualified Juniors/Seniors; as determined by IEP; Prerequisite: None

Work Experience is a course for students to work outside of school at a particular job. This job must be obtained by the student with the assistance and job approval from the teacher/vocational coordinator. The student must be in good academic standing and must abide by the rules and regulations set by the school, employer, and vocational coordinator. The student is also required to enroll in Vocational Education.

LIVING INDEPENDENTLY 1**SEM. 1 – 8220****SEM 2 – 8220 (22206A000)**

Semester - 0.5 credit; Freshman/Sophomore/Junior/Senior; as determined by IEP; Prerequisite: None

This class will equip students with the knowledge and skills necessary for daily life. Students will learn the skills necessary for living an independent life through a variety of school and community experiences. Topics covered range from cooking and cleaning to parenting and basic sewing. Students who enroll in this course will be exposed to a wide variety of topics, which will provide them opportunities to learn to live independently.

LIVING INDEPENDENTLY 2**SEM. 1 – 8231****SEM 2 – 8232 (22206A000)**

Year – 1.0 credit; Freshman/Sophomore/Junior/Senior; As determined by IEP; No Prerequisite

This course is a follow-up to Living Independently 1. Students do not need to have taken Living Independently 1 in order to be enrolled in this class. The goal of this class is to equip students with the skills necessary to carry out daily living skills needed for living an independent life. Specifically, Living Independently 2 focuses on basic knowledge of various foreign languages (beginner Spanish, Braille in the community, etc.); art, music and theatre appreciation and community connections; hobbies; exposure to current events, specifically in newspapers; manners and etiquette; volunteer opportunities in the community. Students will spend time in the classroom as well as out in the community to apply skills learned.

CAREER EXPLORATIONS**SEM. 1 – 8331****SEM. 2 – 8332 (22151A000)**

Year - 1.0 credit; Sophomore/Junior; as determined by IEP; Prerequisite: None

This course features the exploration of careers and career paths available to students. The students will explore/research/and profile various career clusters. They will further investigate careers by visiting and observing various area businesses. The students will take interest/aptitude/personality surveys to help set realistic goals. The students will put together a notebook/portfolio about themselves.

CAREER COMMUNICATIONS**SEM. 1 -8340****SEM. 1 – 8340 (22151A000)**

Semester - 0.5 credit; Sophomore/Junior; as determined by IEP; Prerequisite: None

This class will equip students with the knowledge necessary to respond appropriately in social situations. Students will be exposed to a wide variety of situations in which they will learn to respond in order to receive a desired outcome. Situations may include those found in the social, family and work settings.

GENERAL KEYBOARDING**SEM. 1 – 8350****SEM. 2 – 8350(12005A000)**

*Semester – 0.5 credit; Freshman/Sophomore/Junior/Senior; as determined by IEP; Prerequisite: None
This course is intended to equip students with basic keyboarding and word processing knowledge. Skills addressed throughout the course of the semester include: proper posture and hand positioning; mixed combination typing of home row keys; creating, saving and reopening documents; changing font styles, type and size; changing margins and page orientation. Some time will also be spent introducing various topics on use of the Internet.*

RESOURCE STUDY HALL**SEM. 1 – 8881****SEM. 2 – 8882 (22005A000)**

*Semester - 0.25 credit; All Classes; as determined by IEP; Prerequisite: None
This class is for the student with an IEP who is mainstreamed into regular division classes. The purpose of this class will be to improve study skills and provide tutorial assistance to be successful in general education classes.*

ADAPTED PHYSICAL EDUCATION**SEM. 1 – 7121****SEM. 2 – 7122 (08007A000)**

*Year - 0.5 credit; All Classes; As determined by IEP; Prerequisite: None
This course is designed for students with an IEP who are unable to participate in general education PE classes. They will gain knowledge in the areas of fitness, nutrition, and health and well-being. Students will be exposed to a variety of exercise and recreation alternatives in order to maintain a healthy lifestyle.*

CAREER & TECHNICAL EDUCATION

CTE programs include:

*Agriculture
Automotive Mechanics
Drafting
Electronics
Graphic Arts
Project Lead the Way
Welding/Metals
Wood Technology
Robotics*

***NOTE:** Students are required to take one year of vocational classes as a graduation requirement, or a total of three years if two years of foreign language are not taken.*

INTRODUCTION TO CAREER AND TECHNICAL EDUCATION (formerly known as VOCATIONAL TECHNOLOGY) SEM. 1 – 6501 SEM. 2 – 6512 (21052A002)

Year - 1.0 credit, Semester - 0.5 credit; Freshman/Sophomore Preference is given to 9 & 10 grades;

Prerequisite: None

This course may be taken either First Semester, Second Semester, or all year. This course will be divided into six (6) different areas of study that meet for six weeks each. A rotation of students to the six areas will be determined the first week of school. The individual areas covered are:

AGRICULTURE/ AUTO MECHANICS: *The major areas of the agriculture industry are studied in this six-week session. These areas include animal science, agronomy, natural resource management, horticulture, simple machines and leadership through the FFA program. In addition, the basic theory of the automotive four-stroke engine will be taught through a small engines unit. Students will tear down an engine, identify parts, and then rebuild the engine.*

DRAFTING: *This course is designed to introduce students to the study of drafting principles, along with potential career paths within this field. Each student will be exposed to CAD (Computer Assisted Drafting), as well as hand drafting techniques and basic equipment. Students will also be required to complete various drafting problems and a simple engineering design problem.*

ELECTRONICS: *Basic electronic theory will be introduced in this session, while giving students the opportunity to build a simple electronic project. Due to time constraints, the Electronic session and the Woods session will likely be combined into one six week session.*

GRAPHIC ARTS: *Processes in printing, Desk Top Publishing, and offset/Photoshop techniques will all be covered in this course section.*

METALS: *Metalworking products and processes will be covered in this six-week session.*

WOODS: *Woodworking products and processes will be covered in this six-week session.*

	<u>Freshman</u>	<u>Sophomore</u>	<u>Junior</u>	<u>Senior</u>
<i>Introduction to Vo-Tech</i>	<i>Available without Prerequisites</i>	<i>Available without prerequisite</i>	<i>Available without Prerequisites</i>	<i>Available without prerequisite</i>
<i>Basic Ag Science I, II</i>	<i>Available without prerequisite</i>	<i>Available without prerequisite</i>	<i>Available with teacher permission</i>	<i>Available with teacher permission</i>
<i>Vet. Tech. I, II</i>	<i>Available without Prerequisites</i>	<i>Available without prerequisite</i>	<i>Available without Prerequisites</i>	<i>Available without prerequisite</i>
<i>Small Engines and Electrical Wiring</i>	<i>Not Available</i>	<i>Available without prerequisite</i>	<i>Available without prerequisite</i>	<i>Available without prerequisite</i>
<i>Landscape Design & Turf Management</i>	<i>Available without Prerequisites</i>	<i>Available without prerequisite</i>	<i>Available without Prerequisites</i>	<i>Available without prerequisite</i>
<i>Horticulture Production & Management</i>	<i>Not Available</i>	<i>Available without prerequisite</i>	<i>Available without prerequisite</i>	<i>Available without prerequisite</i>
<i>Agricultural Business Management</i>	<i>Not Available</i>	<i>Available without Prerequisites</i>	<i>Available without Prerequisites</i>	<i>Available without prerequisite</i>
<i>Supervised Ag Experience I</i>	<i>Available without Prerequisites</i>	<i>Available without prerequisite</i>	<i>Available without prerequisite</i>	<i>Available without prerequisite</i>
<i>Supervised Ag Experience II</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Available without Prerequisites</i>	<i>Available without prerequisite</i>

LANDSCAPE DESIGN AND TURF MANAGEMENT**SEM. 1 – 6861 (18054A001)**

Semester - 0.5 credit; Sophomore/Junior/Senior; Offered in Fall semester; Prerequisite: None

This course focuses on the landscape, nursery and turf segments of the horticulture industry. Units of student instruction include: identifying landscape plants, designing landscape plans, hardscape construction techniques, installing landscape plants, nursery production, turf grass production, and golf course design.

HORTICULTURAL PRODUCTION AND MANAGEMENT**SEM. 2 – 6872 (18051A001)**

Semester - 0.5 credit; Sophomore/Junior/Senior; Offered in Spring semester; Prerequisite: None

This advanced course offers instruction in the greenhouse production areas of horticulture. Units of study include plant anatomy and physiology, plant propagation, plant identification, greenhouse management, growing greenhouse crops and hydroponics.

AGRICULTURAL BUSINESS MANAGEMENT SEM. 1 – 6890**SEM. 2 – 6890 (18201A001)**

Semester - 0.5 credit; Sophomore/ Junior/Senior; Prerequisite: None

This course provides students with the basic knowledge and skills necessary to manage personal finances and develop into a successful businessperson. Instructional units include: business ownership types, starting an agribusiness, record keeping and financial management of an agribusiness, developing a marketing plan, pricing, advertising, selling products and services, communicating with customers, applying commodity trading techniques, basic economic principles, the international agribusiness economy, and agriculture career opportunities.

SUPERVISED AGRICULTURAL EXP. (SAE) I SEM. 1 - 6901**SEM. 2 – 6902 (18201A001)**

Year - 0.25 credit; Freshmen/Sophomore/Junior/Senior; Prerequisite: None

This course is designed to establish knowledge and skills in various agricultural careers. Students will gain credit by establishing a project at their home, at a local business, or at their school usually after normal school hours. Example projects may include, but are not limited to: working at a garden center, raising vegetables/grain/livestock, conducting agriscience experiments in a greenhouse and training horses at a stable. Students will be required to verify their experiences by keeping written or computerized records including: business agreements, budgets, inventories, daily activities, hours worked, income and expenses, total earnings, depreciation and net worth. Instructor supervision will be conducted at the student's home or place of employment. SAE records should be evaluated at least once per month. In addition, SAE lessons are integrated in each agricultural course. SAE participation can lead to fulltime employment, scholarships, and awards through the FFA.

SUPERVISED AGRICULTURAL EXP. (SAE) II SEM. 1- 6911**SEM. 2 – 6912 (18201A001)**

	<u><i>Introduction to Automotive Mechanics</i></u>	<u><i>Automotive Mechanics I</i></u>	<u><i>Automotive Mechanics II</i></u>
<u><i>Freshman</i></u>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>
<u><i>Sophomore</i></u>	<i>Available without Prerequisites</i>	<i>Not Available</i>	<i>Not Available</i>
<u><i>Junior</i></u>	<i>Available without Prerequisites</i>	<i>Available without Prerequisites</i>	<i>Not Available</i>
<u><i>Senior</i></u>	<i>Available without Prerequisites</i>	<i>Available without Prerequisites</i>	<i>Automotive Mechanics I or Instructor Approval</i>

Year - 0.25 credit; Junior/Senior; Prerequisite: SAE I

This course is designed to improve and expand knowledge and skills in various agricultural careers. Students will gain credit by continuing a project at their home, at a local business, or at their school; usually after normal school hours. Students are encouraged to add additional projects, experiences, scope and growth involving managerial and decision-making skills. Students will be required to verify their experiences by keeping written or computerized records including: business agreements, budgets, inventories, daily activities, hours worked, income and expenses, total earnings, depreciation and net worth. Instructor supervision will be conducted at the student's home or place of employment. SAE records should be evaluated at least once per month. SAE lessons are integrated into each agricultural course. SAE participation can lead to fulltime employment, scholarships and awards through the FFA.

AUTOMOTIVE CLASSES

INTRODUCTION TO AUTOMOTIVE MECHANICS SEM. 1

SEM. 2 – 6750 (20104A001)

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: None

This class is an introduction to the Auto Mechanics class. It assumes the student has very little knowledge or experience in automotive mechanics. Students will identify automotive parts and components while working to understand how they function (ex. where would the water pump be found - students will learn its location and function) This class will also cover basic car maintenance, such as checking tire pressure, changing tires, rotating tires, balancing tires, buying tires, checking and replacing fluids (oil, water, brake fluid, anti-freeze, etc.), replacing hoses and serpentine belt, discussing differences in oil, gasoline, flushing radiator, changing headlights, taillights, turn signals, fuses, windshield wiper blades, air filters, batteries, mufflers, tail pipes, installing radio, CD player, etc. Students will learn to use the hoist and how to place a car on the hoist. Students will be allowed to work on their car to practice these minor repairs. It is recommended that auto mechanic students take a semester of electronics and/or our small working to understand how they function (ex. where would the water pump be found - students will learn

AUTO MECHANICS I**SEM. 1 – 6771****SEM. 2 – 6772 (20104A002)**

Year - 1.0 credit; Junior/Senior; Prerequisite: Introduction to Auto. Mechanics or instructor's written permission.

This class offers the basic theory and service procedures for the automobile internal combustion engine, automotive chassis, transmission system, fuel systems, and electrical systems. This class is intended to prepare students for Auto Mechanics II their Senior year.

AUTO MECHANICS II**SEM. 1 – 6781****SEM. 2 – 6782 (20104A002)**

Year - 2.0 credits; Seniors only; (1 year, two periods a day);

Prerequisite: Auto. Mech. I or Introduction to Auto. Mech I with instructor's written permission.

Auto Mechanics II is a lab-oriented course where students build upon theoretical principles learned in Auto Mech. I. All mechanical and electrical aspects of an automobile will be discussed and worked on in lab.

DRAFTING CLASSES

	<u>Drafting 1</u>	<u>Advanced Drafting</u>
<u>Freshman</u>	Not Available	Not Available
<u>Sophomore</u>	Available without Prerequisites	Drafting 1 or Instructor Approval
<u>Junior</u>	Available without Prerequisites	Drafting 1 or Instructor Approval
<u>Senior</u>	Available without Prerequisites	Drafting 1 or Instructor Approval

DRAFTING 1**SEM. 1 – 6600****SEM. 2 – 6600(21102A001)**

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: None

This course is designed for students to study drafting principles, practices along with its history. Topics covered are the purposes of drafting, flat drawings, orthographic projection, dimensioning, designing, working to understand how they function (ex. where would the water pump be found - students will learn implementation). Each student will be exposed to CAD (Computer Assisted Drafting) and will be required to complete various drafting problems using CAD systems. Hand drafting techniques will be introduced and implemented in addition to CAD.

ADVANCED DRAFTING**SEM. 1 – 6640****SEM. 2 – 6640 (21103A002)**

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: Drafting I Introduction to Engineering Design or Teacher Approval.

Advanced Drafting will be a continuation of Drafting I. Advanced areas of study include: pictorial drafting, orthographic drafting, auxiliary drafting, sectional drafting, correct dimensioning techniques, and

working to understand how they function (ex. where would the water pump be found - students will learn businesses and/or the school. Likewise, students may have the option to partake in a new design or update an existing design. Many projects allow students to use critical thinking and creativity to complete assignments. Students will be creating many projects in CAD software, in addition to working in the 3-D realm of design. Many projects will be designed, built, and tested.

ELECTRONICS

	<u>Electronics I</u>
<u>Freshman</u>	<i>Not Available</i>
<u>Sophomore</u>	<i>Available without Prerequisites</i>
<u>Junior</u>	<i>Available without Prerequisites</i>
<u>Senior</u>	<i>Available without Prerequisites</i>

ELECTRONICS**SEM. 1 – 6660****SEM. 2 – 6660 (17104A001)**

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: None

This course is a starting point for students considering a career in an electrical field, and students do not need to have any background in electronics before taking this course. Through building exciting and meaningful circuits, students will learn the fundamental theory of how electricity functions. Students will learn concepts such as bread boarding, soldering, reading a volt/ohm meter, and differences between AC-DC electricity. Likewise, students will build projects such as a continuity tester, a simple IC control circuit, a basic motor, a burglar alarm, and a light dependent circuit.

GRAPHIC ARTS/DIGITAL IMAGING/DIGITAL VIDEO CLASSES

	<i>Graphic Arts</i>	<i>Adv. Graphic Arts</i>	<i>Prod. Graph. Arts</i>	<i>Digital Imaging</i>	<i>Digital Video Production 1</i>	<i>Digital Video Production 2</i>
<i>Freshman</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>
<i>Sophomore</i>	<i>Available without prerequisite</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Available without prerequisite</i>	<i>Not Available</i>	<i>Not Available</i>
<i>Junior</i>	<i>Available without prerequisite</i>	<i>Graphic Arts</i>	<i>Adv. Graph Arts</i>	<i>Available without prerequisite</i>	<i>Available without prerequisite</i>	<i>Digital Video Production 1</i>
<i>Senior</i>	<i>Available without prerequisite</i>	<i>Graphic Arts</i>	<i>Adv. Graph Arts</i>	<i>Available without prerequisite</i>	<i>Available without prerequisite</i>	<i>Digital Video Production 1</i>

GRAPHIC ARTS

SEM. 1 – 6720

SEM.2 – 6720 (11154A001)

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: None

This course will teach students the basic knowledge and skills of the graphic arts field from idea generation and design to printing and finishing. Team and individual project work provide the basis for which students learn the course content. Students will use industry standard software (Adobe InDesign, Illustrator and Photoshop) for their projects. Upon completion of this course, students will be able to demonstrate knowledge and/or basic skills in the following areas: history of printing and communications, careers, safety, relief printing, offset printing, gravure printing, screen printing, heat transfer printing, design (type styles, type setting, measuring, sketching, color, layouts, tint screening, elements of design), layout procedures, desktop publishing (design procedures, scanning, photographic editing), proofing, offset press work, binding and finishing, ink, paper and papermaking, and new technology in the field.

ADVANCED GRAPHIC ARTS

SEM. 1 – 6731

SEM. 2 – 6732 (11154A002)

Year - 1.0 credit; Junior/Senior; Prerequisite: Graphic Arts

This course will teach students the knowledge and skills needed to obtain employment in the graphic arts/design field. Actual design and/or printing experience for customers within the school and the community provide skill development. Students will continue to develop their skills using industry standard design software (Adobe InDesign, Illustrator, Photoshop), and develop and maintain a portfolio of work. Areas of skill enhancement include all the areas taught in Graphic Arts, plus quality inspection, record keeping, billing, cost estimating, job status reports, digital photography, working with customers, reading job orders, maintaining equipment, stock selection and size calculation, multi-color printing, employment exploration, and developing leadership qualities.

PRODUCTION GRAPHIC ARTS **SEM. 1 – 6741** **SEM. 2 – 6742 (11154A002)**
Year - 1.0 credit; Junior/Senior; Prerequisite: Graphic Arts ,or Digital Video Production or Digital Photography

This course combines student experience in the Graphic Arts field with Digital Video and Digital Photography. Students will work as part of a team to expand their knowledge of video, photography, and layout/design using industry standard software (Adobe InDesign, Illustrator, Photoshop, iMovie and iBooks Author). The goal is to develop and create an in-class magazine-style electronic booklet on a semester topic as assigned by the teacher using all of the Graphic Communications skills. Students must have taken ONE of these courses to be eligible for this class: Graphic Arts, Digital Video Production or Digital Photography. This course may be repeated with teacher approval.

DIGITAL IMAGING **SEM. 1 – 6760** **SEM. 2 – 6760 (10202A001)**
Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: None

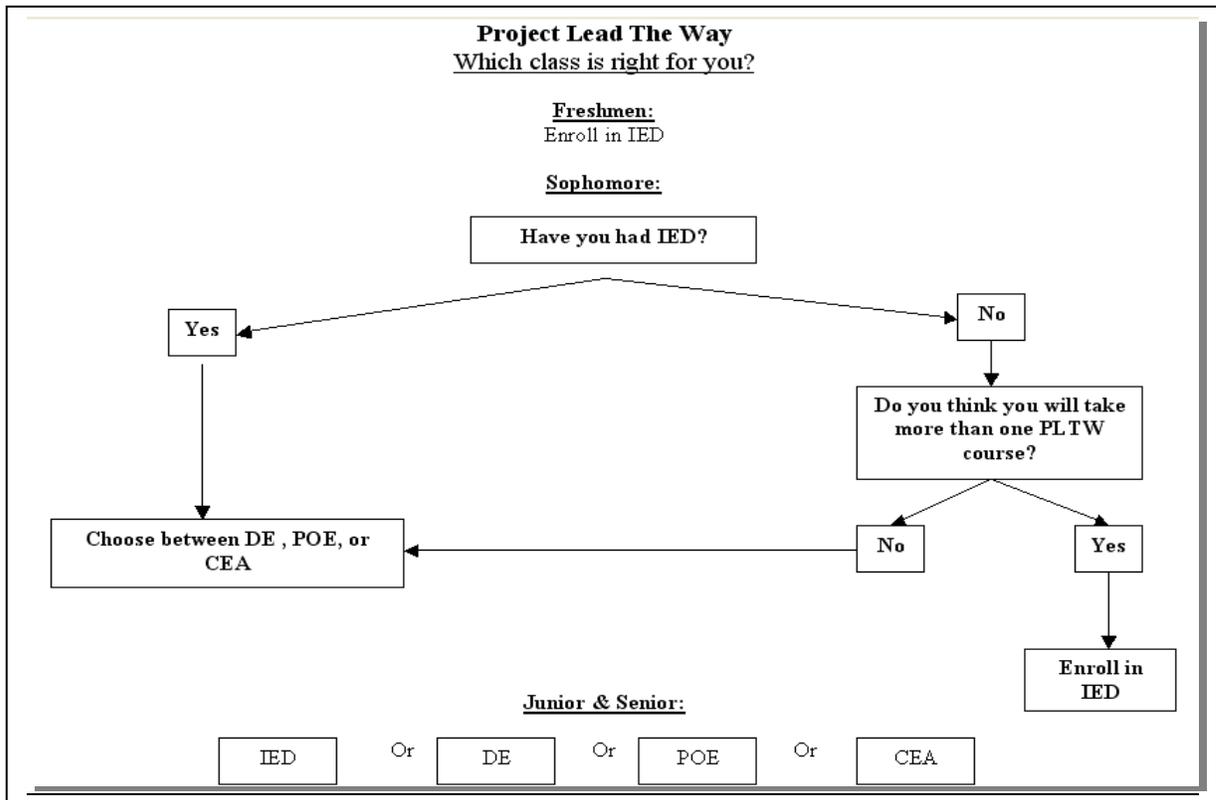
This is a project-based class designed for those with little or no experience using digital cameras or digital imaging software. Topics covered include digital camera operation, sharpness, exposure, light, color, lenses, flashes, studio photography, composition, uploading files, editing files for print and web, image manipulation with Adobe Photoshop software, and advanced shooting techniques. Students will need to provide a digital camera if possible, but can use a school camera if they don't have one.

DIGITAL VIDEO PRODUCTION 1 **SEM. 1 – 6710** **SEM. 2 – 6710 (11051A001)**

Semester - 0.5 credit; Junior/Senior; Prerequisite: Digital Imaging recommended but not required)
Digital Video Production introduces students to all aspects of digital video from storyboarding and creating shot lists to editing a finished, professional-quality product. Topics of study include: video camera operation, video space, the frame, video dimensions, spatial relations, video time speed, flow, direction & coherence, composition, camera angles, sound effects, program development and others. By the end of the semester, students will demonstrate mastery of key learning objectives by capturing, recording and editing their own videos. Projects include creating a 30-second commercial, a “scary” movie, using sound effects to enhance video, and others. This course will provide a solid foundation for further study in this exciting field, if the student so chooses.

DIGITAL VIDEO PRODUCTION 2 **SEM.1 – 6700** **SEM. 2 – 6700 (11051A001)**

Semester - 0.5 credit; Junior/Senior; Prerequisite: Digital Video Production 1
This course continues the study of Digital Video Production 1 and will cover the following topics: lighting, recording audio, directing on-screen actors, and video postproduction/editing techniques. Throughout this project-based course, students will demonstrate mastery of key learning objectives by capturing, recording, and editing their own videos. Projects include a silent movie, using a green screen, and others. This course will provide a solid foundation for further study in this exciting field, if the student so chooses.



Project Lead The Way

Project Lead the Way is a four year sequence of courses which, when combined with traditional mathematics and science courses, introduces students to the scope, rigor and discipline of engineering prior to entering college. However, those not intending to pursue further formal education will also benefit greatly from the knowledge and logical thought processes that result from taking some or all of the courses provided in the curriculum. Current courses are:

IED – HON. INTRO. TO ENGINEERING DESIGN SEM. 1 – 6941 SEM. 2 – 6942 (21006A001)
Year - 1.0 credit; Approved Freshmen/Sophomore/Junior/Senior; Prerequisite: Successful completion of Algebra I with a “B” or better.*

IED is a course designed to give students an introduction to the engineering field and related technical careers. Students in this course learn problem solving skills while using 3-D imaging software to design and reverse engineer products.

DE – HON. DIGITAL ELECTRONICS SEM. 1 – 6951 SEM. 2 – 6952 (21008A001)
Year - 1.0 credit; Sophomore/Junior/Senior; Prerequisite: Successful completion of Algebra I with a "B" or better

Digital Electronics is a course of study in applied digital logic using electronic logic circuits that first are designed and then tested using the latest computer digital-logic modeling technology. Students will learn about digital electronic fundamentals, number systems, gates, Boolean algebra, circuit design, flip-flops, and microprocessors. Students in this class will apply the class concepts towards completing several class projects including a voting machine, a fireplace control circuit, an elevator door control state machine, and a 60 second timer. Students will also be introduced to basic microprocessor programming, utilizing the basic stamp while also programming a FPGA. No electronics background is needed before taking this course.

POE - HON. PRINCIPLES OF ENGINEERING SEM. 1 – 6961 SEM. 2 – 6962 (21004A001)
Year - 1.0 credit; Sophomore/Junior/Senior; Prerequisite: Successful completion of Algebra I with a "B" or better

Principles of Engineering is a problem and project based survey course that is designed to give students a broad perspective on the many opportunities available through engineering and engineering technology fields. Units covered include mechanisms, electronics, energy efficiency, thermodynamics, machine control, statics, and kinematics. Each unit builds on prior lessons and students apply the theory from the unit to solve fun problems and build projects. A culminating project for this course is a recycling machine where students build and program a machine to sort five different types of marbles from one central hopper into five different hoppers each holding one type of marble. As students leave this course, they will hopefully have a better perspective upon their interests and strengths within the broad field of engineering

CEA - HON. CIVIL ENGINEERING AND ARCHITECTURE
SEM. 1- 6971 SEM.2- 6972 (21012A001)

Year - 1.0 credit; Sophomore/Junior/Senior; Prerequisite: Successful completion of either Introduction to Engineering Design or Drafting I

This course is designed to allow students the opportunity to apply architectural and engineering drafting techniques to solve real world problems and projects. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of a property site. Students work in teams, exploring hands-on activities and projects to learn the characteristics of civil engineering and architecture. In addition, students use 3D design software to help them design solutions to solve major course projects. Students learn about documenting their project, solving problems, and communicating their solutions to their peers and members of the professional community of civil engineering and architecture.

WELDING/METALS CLASSES

	<u>WELDING</u>	<u>ADV. WELDING</u>	<u>PRODUCTIO N WELDING</u>	<u>METALS</u>	<u>ADV. METALS</u>
<u>Freshman</u>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>
<u>Sophomore</u>	<i>Available without prerequisite</i>	<i>Welding</i>	<i>Not Available</i>	<i>Available without prerequisite</i>	<i>Metals</i>
<u>Junior</u>	<i>Available without prerequisite</i>	<i>Welding</i>	<i>Welding , Adv. Welding, or Instructor Approval</i>	<i>Available without prerequisite</i>	<i>Metals</i>
<u>Senior</u>	<i>Available without prerequisite</i>	<i>Welding</i>	<i>Welding , Adv. Welding, or Instructor Approval</i>	<i>Available without prerequisite</i>	<i>Metals</i>

METALS (METAL MACHINE TOOL OPERATION)

SEM. 1 – 6550

SEM. 2 – 6550 (13203A001)

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: None

This is the student's first exposure to the machining of metal. The student will gain experience in the operation of various machines. The correct use and reading of various precision measuring tools will be developed. An introduction and usage of the CNC (computer controlled) machines may be included in this course. This course has no prerequisite but is preparatory for the Advanced Metals Course.

ADVANCED METALS

SEM. 1 – 6560

SEM. 2 – 6560 (13203A002)

(ADVANCED METAL MACHINE TOOL OPERATION)

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: Metals with a “C” or better

This course is designed to develop a student's ability to solve machining problems through the use of the engine lathe, mills, precision grinders and drills. Blueprint reading, shop math, project development, the metric system, and accuracy will be stressed. The correct use and reading of various precision measuring tools will be developed. Various projects will be required of a student to accomplish the above. CNC (computer controlled) machine tool concepts and programming may also be developed.

WELDING**SEM. 1 – 6570****SEM.2 – 6570 (13207A001)***Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: None**This course is designed for students interested in learning the skills of shielded metal arc welding, oxy-acetylene welding and cuttings, tungsten inert gas welding, and gas metal arc welding procedures. This course includes units in welding equipment, safety and welding materials. Skills needed for welding in the flat position will be stressed. Emphasis will be made on the practice of actual welding skills in the shop through welding exercises.***ADVANCED WELDING****SEM. 1 – 6580****SEM. 2 – 6580 (13207A002)***Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: Welding with a “C” or better**In this course, students will gain proficiency in all position welding including flat, horizontal, vertical, and overhead using shielded metal arc welding, as well as gas metal arc welding techniques. There is emphasis on skill development in MIG welding and refinement in SMAW (stick) welding. Participation in student developed projects and major repair work is highly encouraged. TIG welding on various metals will also be taught in this course. Computer application and robotics in the area of welding may be introduced. This class may include opportunities for dual credit through Illinois Central College.***PRODUCTION WELDING SEM. 1 – 6590****SEM. 2 – 6590 (13207A002)***Semester - 0.5 credit; Junior/Senior; Prerequisite: Welding and Advanced Welding with a “C” or better**Production Welding is for the student who is looking at a career as a MIG welder. The course is open to Juniors and Seniors who have had Welding and Advanced Welding, or are presently enrolled in Advanced Welding. This course will emphasize industrial style MIG welding, setting up welders correctly, and good work habits, as well as an awareness of production techniques. The vast majority of the course will be spent in the shop mastering these various areas. The students may be given the opportunity to design, fabricate, and weld a project of their choice (with instructor approval) in this class. Likewise, this class will include an introduction to blueprint reading for welders as well as basic weld theory. This class may include opportunities for dual credit through Illinois Central College.***WOODS CLASSES**

	<u>Wood Technology</u>	<u>Production Wood Technology I</u>	<u>Production Wood Technology II</u>
<u>Freshman</u>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>
<u>Sophomore</u>	<i>Available without prerequisite</i>	<i>Not Available</i>	<i>Not Available</i>
<u>Junior</u>	<i>Available without prerequisite</i>	<i>Wood Technology</i>	<i>Not Available</i>
<u>Senior</u>	<i>Available without prerequisite</i>	<i>Wood Technology</i>	<i>Production Wood Technology I</i>

WOOD TECHNOLOGY**SEM. 1 – 6520****SEM. 2 – 6520 (17007A001)**

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: None

This course is the first exposure to power woodworking machines and woodworking equipment. The basics in cabinetmaking are taught and applied in the building of a small piece of furniture. Machine safety is stressed. Topics taught include reading a working drawing, making a bill of materials, making a plan of procedure, simple wood joints, gluing and clamping, safe use of sliding compound miter box, jointer, planer, table saw, band saw, saber saw, drill, router, sanding and sandpaper, selection of finish materials, stains, wood fillers, lacquers and applying finishes.

PRODUCTION WOOD TECHNOLOGY I SEM. 1 – 6531**SEM. 2 – 6532 (17007A001)**

Year - 1.0 credit; Junior/Senior; Prerequisite: Wood Technology or Instructor's permission

This is an advanced theory and practice course. This course deals with the operating principles, safety, special set-ups, adjustments and maintenance of woodworking machines. The learning experiences will occur through the individual construction of woodworking projects. Special attention will be given to the characteristics of common commercial woods used in the woodworking industry.

PRODUCTION WOOD TECHNOLOGY II SEM. 1 – 6541**SEM. 2 – 6542 (17007A002)**

Year - 1.0 credit; Senior; Prerequisite: Wood Technology and Production Wood Technology I

Students will be required to design, calculate and construct furniture and cabinets. Advanced methods of woodworking machinery operation will be emphasized. Each student will also be utilized throughout the year in cooperation with school personnel on maintenance operations. Students will deal with machine mass production.

MISCELLANEOUS CLASSES**WORK FORCE PREP****SEM. 1 – 6251****SEM. 2 – 6252 (22153A001)**

Semester or all Year - 1.0 credit/Semester; 3 periods/day 1st and 2nd Semester; Junior/Senior

Work-based learning links secondary and post-secondary education, business and industry, labor and government to provide high school students with a wide range of career opportunities and experiences, leading to a smooth transition from school to work. Work-based learning students come to realize the connection between school and living productive lives. Competency-based work-based learning experiences include paid and non-paid internships, occupational/technical labs, and related high school coursework. Many work-based learning programs also include additional career exploration activities like job shadowing, speakers, field trips and workshops. WBL programs include: Building Services, Construction, Criminal Justice, Culinary Arts, EMT-Basic, Graphic Design, Health Occupations, Microcomputer Networking, and Project Lead the Way Pre-Engineering.

Robotics

Freshman	Not available
Sophomores	Available without prerequisite
Juniors	Available without prerequisite
Seniors	Available without prerequisite

ROBOTICS

SEM. 1 - 6640

SEM. 2 - 6640 (21009A000)

Semester - 0.5 credit; Sophomore/Junior/Senior; Prerequisite: None.

In this Robotics class, students will build a mechanical robot structure, electrically wire the robot, and also program it to compete in several autonomous and remote control class challenges. Although we cannot predict the future with regards to technological advancements, we can know that many advancements and future careers will rely upon the integration of electronics, microcontrollers, programming, and engineering design topics that are introduced through this course. Students do not need to have any background knowledge or other previous classes to take this course. Likewise, although we encourage students to take advantage of opportunities within the FIRST Robotics extracurricular team, participation on this team is not a requirement for this course and has no bearing on class success.

