Courses offered at Traverse City High School can also be located within this course guide.
Traverse City Area Public Schools

Mission
We exist to educate. Education improves the quality of life for all.

Strategy
Build strong systems to drive improved life outcomes for all students.

Priorities
Install the MI Excel Blueprint for Strategic Reconfiguration as the framework to provide high quality teaching and learning.

Curriculum and Instruction
TCAPS delivers a rigorous and relevant education for each student, caring for both the student’s academic and non-academic needs.

Improve student achievement and ensure students are prepared for a successful and productive life.

Finance and Operations
Educational priorities and student need drive resource decisions.

Operations are efficient and effective.

TCAPS is fiscally responsible.

Communication
Develop broad community connections, specifically with those who have no direct connection to our schools.

Reinforce TCAPS’ reputation as a quality school system and a great choice for families.

Prohibition of Discriminatory Practices
The Board of Education is committed to a policy of non-discrimination in the Traverse City Area Public Schools District. Such policy shall be consistent with state and federal statutes, which apply to public schools. The school district of Traverse City Area Public Schools hereby notifies all employees, citizens, and students that it does not discriminate on the basis of sex, race, color, national origin, religion, age, height, weight, marital status, or against otherwise qualified handicapped individuals with respect to district educational programs, activities, and employment practices.

It is the policy of the Traverse City Area Public Schools District to comply with Title IX of the Education Act Amendment of 1972, Section #504, of the Rehabilitation Act of 1973, Title VI of the Civil Rights Act of 1964, and Michigan law. The Board shall strive to accommodate the handicapped by making buildings accessible in regard to public meetings, voting precincts, and educational programs. Further, the Board designates individuals in the following positions as compliance officers for the aforementioned regulations: Title IX (discrimination based on sex) and Title VI (discrimination based on race, color, national origin, religion, age, height, weight, arrest record, or marital status): Cindy Berck, Executive Director of Human Resources, Section #504 (discrimination based on disability): Jame McCall, Associate Superintendent of Student Services.
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Course Scheduling

The courses in this catalog will be scheduled only if registration figures indicate a sufficient enrollment demand for the course. While every attempt is made to make the printed version of these course guide books as accurate as possible, some changes may be made between the time of printing and the time that a student registers for classes. Any changes made will be reflected on the electronic version of this book, which will always be available on our school’s website.

Before planning the high school program, students are to review graduation requirements with their parents. During the second semester of each school year, students meet with their counselors to discuss and finalize their course selections for the following year. At this time, counselors urge students to examine their 4-year high school plan, taking into consideration their personalities, interests, abilities, and post-secondary education and career plans.

Schedule Change Request and Withdrawal

Every effort is made to determine the most appropriate courses for students commensurate with their needs, interests, and abilities. Course assignments are arranged to accommodate courses selected by students. Therefore, any request for a schedule change will be considered only for the most compelling of reasons. Such reasons are: (1) Your schedule does not include the courses and alternate courses previously approved by parents and counselor. (2) Your schedule does not include a required class, which must be made this year. If your schedule contains such an error or omission, see your counselor before regular classes begin in the fall. During the year, withdrawals from courses and schedule changes are quite rare, but may be justifiable under certain circumstances.

The following guideline applies:

Any decisions regarding withdrawals from scheduled courses must adhere to the student handbook guidelines. The principal has the final authority to drop or add a student’s class(es).

The intent of this policy is to arrive at decisions in the best interest of the student based on the involvement of both the student and parents, and the judgment of the professional staff. The process also seeks to prevent students from sampling subjects without providing sufficient effort required for successful achievement.
Secondary Programs

Test Out
High school students may request the opportunity to “test out” of any high school class they select that they have taken before. A student who successfully tests out of a course will receive credit toward graduation for the course. The test out grade will simply be a “pass” and will not be included in the calculation of a student’s grade point average. The option to test out will be offered in the spring of each year. Students interested in pursuing “test out” opportunities are encouraged to discuss the option with their counselors. To test out, students are expected to produce the same quality of work as students who attend the class and score a 78% or higher on the test out exam. More information at www.tcaps.net/testout.

Traverse City High School
TCAPS is proud to offer an alternative high school for area-wide students whose needs may be best met in a non-traditional school setting. Traverse City High School (TCHS) focuses on students’ needs and abilities, while offering a flexible individualized approach for the successful completion of high school and entry into the workforce. Additional programs at Traverse City High School include the Infant Toddler Child Care Program for student parents, Indian Education Program, Students in Transition Empowerment Program (STEP), and Drug Free Schools and Prevention Services. When a student enrolls at Traverse City High School, the student will work with school staff to develop their learning plan. All courses offered at Traverse City High School can also be located within this course guide, however, the duration of the courses will vary at TCHS. More information at www.tcaps.net/tchs.

Virtual High School Online Courses
Virtual online courses are available for art, business, English language arts, general electives, health & physical education, world languages, math, music, science, social studies, and visual, performing and applied arts.

All students are eligible for virtual courses, but due to the unique nature of the online program, certain standards and behaviors are expected of students. Both high schools utilize a “Student and Parent Online Contract” where students are asked to read and agree to abide by the guidelines as stated. Parents are asked to acknowledge the student expectations and understand the ramifications of failure to abide by guidelines as stated. A copy of the contract is available from your student’s counselor or principal. Students will have to demonstrate online readiness through a variety of assessments prior to enrollment in online coursework.

Online program details are available in this guide and can be reviewed at www.tcaps.net/onlineprograms. Contact your counselor for more details.

Work Experience Program
The Work Experience Program is a work-based learning program coordinated by the school with an employer providing an educational experience related to the school instruction. Students can earn up to a full credit in this course depending upon the hours worked. Students must be concurrently or previously enrolled in a job-related academic course during the same academic year to gain credit for work experience. To enroll in this course students and employers must fill out the Work-Based Education Programs Training Agreement. See your counselor for more details.

Career-Tech Center
Career-Tech Center programs (grades 11-12) offer an educational block of time designed to assist students in pre-vocational training, reading, writing, and mathematics skills, in addition to on-site career exploration. For further information, contact the Career-Tech Center at 231-922-6320.

Special Education
Special Education courses are designed for students certified as physically or otherwise health impaired, mentally impaired, learning disabled, hearing impaired, emotionally impaired, or speech and language impaired. Support is offered in language arts, science, math, social studies and basic learning skills, improving social behavior, and communication skills. The middle school provides a continuum of Special Education programs to meet the individual needs of students in the least restrictive setting. All programs operate according to state and federal mandates.
## TCAPS Graduation Requirements

### Language Arts

<table>
<thead>
<tr>
<th>Grade</th>
<th>Credits</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>1 credit</td>
<td>English Language Arts-9 or (Honors) Required</td>
</tr>
<tr>
<td>10th</td>
<td>1 credit</td>
<td>English Language Arts-10 or (Honors) Required</td>
</tr>
<tr>
<td>11th</td>
<td>1 credit</td>
<td>Choose from the following courses:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>English Language Arts-11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Language &amp; Composition</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Literature &amp; Composition</td>
</tr>
<tr>
<td>12th</td>
<td>1 credit</td>
<td>Choose from the following courses:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>English Language Arts-12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Language &amp; Composition</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Literature &amp; Composition</td>
</tr>
</tbody>
</table>

**Total 4 credits**  **Required 9th-12th**

### Mathematics

<table>
<thead>
<tr>
<th>Grade</th>
<th>Credits</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>1 credit</td>
<td>Algebra I or Geometry</td>
</tr>
<tr>
<td>10th</td>
<td>1 credit</td>
<td>Geometry or Algebra II</td>
</tr>
<tr>
<td>11th-12th</td>
<td>1 credit</td>
<td>Choose from the following courses:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Algebra II or (Honors)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trig/Pre-Calc or (Honors)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Calc AB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Calc BC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Statistics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Math College Placement Prep</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Intro to Statistics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Acct. I, Acct. II, Personal Economics and Finance, and/or AP Comp Science may satisfy the MMC requirement for the one math course taken in the final year of high school.)</td>
</tr>
</tbody>
</table>

**Total 4 credits**  **Required 9th-12th must include Algebra I, Geometry, and Algebra II**

### Science

<table>
<thead>
<tr>
<th>Grade</th>
<th>Credits</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>1 credit</td>
<td>Biology or (Honors)</td>
</tr>
<tr>
<td>10th</td>
<td>1 credit</td>
<td>Choose from the following courses:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Environmental Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chemistry or (Honors)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physics or (Honors)</td>
</tr>
<tr>
<td>11th-12th</td>
<td>1 credit</td>
<td>Choose from the following courses:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Environmental Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Environmental Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Forensic Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nutrition Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Anatomy &amp; Physiology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Biology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Chemistry</td>
</tr>
</tbody>
</table>

**Total 3 credits**  **Required 9th-12th (must include Biology, Chemistry, or Physics as well as a third year of science)**

### Social Studies

<table>
<thead>
<tr>
<th>Grade</th>
<th>Credits</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>1 credit</td>
<td>U.S. History &amp; Geography or (Honors)</td>
</tr>
<tr>
<td>10th</td>
<td>1 credit</td>
<td>Choose from the following courses:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>World History &amp; Geography</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP World History</td>
</tr>
<tr>
<td>11th-12th</td>
<td>.5 credit</td>
<td>Choose from the following courses:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Economics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Personal Economics and Finance</td>
</tr>
<tr>
<td>11th-12th</td>
<td>.5 credit</td>
<td>Choose from the following courses:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Civics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP U.S. Gov’t &amp; Politics</td>
</tr>
</tbody>
</table>

**Total 3 credits**  **Required 9th-12th**

*If a student chooses to increase the academic rigor of his/her schedule by taking more than the required math, science, English language arts, and/or world language credits, he/she may modify the following requirements with those extra academic credits:

1 Health and Physical Education Credit
1 Social Studies Credit (.5 Civics would still be required)
1 Visual, Performing and Applied Arts Credit

If a Personal Curriculum is required, please contact your school counselor for more information.
TCAPS Graduation Requirements

World Languages
Grade Credits Class
6th-12th 2 credits Same World Language during 9th-12th grade or equivalent learning experience K-12th.
(Students may substitute additional VPAA courses or a CTE program for the 2nd world language credit.)

Health & Physical Education
Grade Credits Class
9th .5 credit Health & Physical Ed (HPE) I or Working on Wellness (WW) I
9th-12th .5 credit Health & Physical Ed (HPE) II or Working on Wellness (WW) II
Total 1 credit Required 9th-12th

Visual, Performing, and Applied Arts (VPAA)
Grade Credits Class
9th-12th 1 credit VPAA Course
College Credit Opportunities

**Dual Enrollment**

The Dual Enrollment program offers students, who qualify, an opportunity to enroll in college level courses. Qualifying students are eligible to earn tuition-free college credit in approved courses while completing their high school education. This guide includes some college courses available to students on their high school campus. Dual enrolled students must complete the dual enrolled application process on the student services page by the published deadlines.

In addition, TCAPS’ Advanced Placement (AP) courses earn NMC college credit when AP Exam results meet specified scores. Not all colleges and universities recognize dual enrollment credit. Meet with your high school counselor for more details. For a complete list of approved courses, visit NMC’s website at https://bit.ly/37gfJT9

**TBA Early College Program**

Students who enroll in select programs at the TBAISD Career-Tech Center are eligible to apply for admission into the Early College Program in the spring of their sophomore year. Students will be selected for participation in accordance with Northwestern Michigan College and Ferris State University admission requirements. Early college students who qualify will work with advisory personnel to select a sequence of high school and college courses leading to completion of the Michigan Merit Curriculum requirements, as well as Associates Degree or technical certificate and/or a minimum of 32 transferable college credits upon successful completion of the program. Interested students should can get more information from their high school counselors.

**TCAPS Early College Program with NMC**

Join the TCAPS Early College Program!

Early College provides students with a defined “pathway” of courses through high school and college that, if completed successfully, results in the student earning both a high school diploma and an associate degree from NMC. Early College students receive their high school diploma after their 5th year.

**How does it work?**

- Set up a meeting with your high school counselor.
- Fill out an online application form at www.nmc.edu/apply.
- Send your school transcript to NMC through www.parchment.com.
- Submit an essay to Jason Smith (two paragraphs long) on why you want to enroll in the Early College Program.

Jason Smith
NMC-International/Domestic Recruiter and Advisor
Phone: (231) 995-1082
Email: jasmith@nmc.edu
Office: Tanis Building ML

Learn more at www.tcaps.net/earlycollege.

<table>
<thead>
<tr>
<th>Dual Enrollment</th>
<th>Early College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose pre-approved classes from NMC with counselor</td>
<td>“Pathway” of high school and college classes defined for you</td>
</tr>
<tr>
<td>High school pays for pre-approved classes</td>
<td>High school pays for classes</td>
</tr>
<tr>
<td>Earn up to 30 college credits before graduation</td>
<td>Graduate with an associate degree from NMC and a high school diploma (5th year)</td>
</tr>
</tbody>
</table>

Note: Early College/Dual Enrollment may still not exceed 1.0 FTE courses. See your counselor to determine the exact number of credits you can take.
Advanced Placement (AP)
(Program of the College Board)
This rigorous program exposes high school students to college-level material through involvement in an AP course and gives students the opportunity to show they have mastered the material by taking an optional exam. All AP students are strongly encouraged to take the AP exam(s). Scholarships for the exam(s) are available through the counseling office. Colleges and universities may then grant credit, placement, or both, to students (based on qualifying scores). Although the AP exam is an assessment for college credit, it is only one component. The AP program allows students to learn a subject in greater depth, practice higher-level thinking skills, lay the groundwork for future challenges, and acquire the self-discipline necessary for high academic achievement. AP classes offered at the high school this year include (See course description in each department section. Offerings are based on student demand.):

- AP Biology
- AP Calculus/AB
- AP Calculus/BC
- AP Chemistry
- AP Computer Science
- AP English Language and Composition
- AP English Literature and Composition
- AP Environmental Science
- AP European History
- AP History - United States
- AP Human Geography
- AP Psychology
- AP Statistics
- AP Studio Art-Drawing
- AP Studio Art-2-D Design
- AP Studio Art-3-D Design
- AP Studio Art-Photography
- AP United States Government & Politics
- AP World History

Advanced Placement classes will be weighted on a 5.0 GPA scale and posted after each semester in a student’s TCAPS Scholarship GPA (for external use only).

Business Enthusiasts
Earn Free College Credit While in High School
The TCAPS Business Education Department is excited to offer the opportunity for college credit (articulation) at NMC or Davenport University for students who receive a B+ or higher in the selected high school business courses:
(Articulation is a method of granting university-level course credit for learning and skills accomplished as part of secondary school instruction.)

<table>
<thead>
<tr>
<th>Traverse City West &amp; Central High Schools</th>
<th>Northwestern Michigan College (NMC)</th>
<th>Davenport University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting I and II</td>
<td>ACC 121 Accounting Principles</td>
<td>ACCT 201 Accounting Foundations</td>
</tr>
<tr>
<td></td>
<td>(4 credits)</td>
<td>(4 credits)</td>
</tr>
<tr>
<td>Business Technology A and B</td>
<td>CIT 100 Computers in Business</td>
<td>CISP 100 Introduction to Computers</td>
</tr>
<tr>
<td></td>
<td>(3 credits)</td>
<td>(3 credits)</td>
</tr>
<tr>
<td>Marketing-How to Start a Business</td>
<td></td>
<td>MKTG 211 Marketing Foundations</td>
</tr>
<tr>
<td>and Marketing-Advertising</td>
<td></td>
<td>(3 credits)</td>
</tr>
</tbody>
</table>
Each year Traverse City Area Public Schools offers state-approved Career and Technical Education (CTE) programs at West Senior High School and Central High School. There are also CTE programs available to TCAPS students at the Career and Technical Education Center. These career-focused education programs are designed to prepare youth for a broad range of employment and continuing education opportunities. They are offered under the guidance of occupationally certified instructors, counselors and work-based learning coordinators. The curriculum is technologically up-to-date, the equipment is representative of the “state-of-the art” in business and industry, and the laboratories are of optimum size and appropriately designed for safety. Listed below are the programs offered. Please refer to the Career-Tech Center curriculum offerings on pages 27-28 of this guide for a complete listing of courses comprising each of these state-approved, formal CTE programs and to learn about 1.0 exchange credit for Science or World Language or Visual, Performing & Applied Arts.

Career and Technical Education Curriculum

CTE Program

• Architecture & Design Technology
• Business Management & Administration
• Computer Science and Programming
• Engineering & Design Technology (Also Robotics)
• Finance & Accounting
• Marketing
• Video & Broadcasting
### CTE Program Completer & Credit Equivalency Guide

<table>
<thead>
<tr>
<th>TCAPS State-Approved CTE Programs</th>
<th>Course Sequence</th>
<th>World Language Exchange Credit</th>
<th>VPAA Exchange Credit*</th>
<th>4th Year Math Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Architecture &amp; Design Technology</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Program Completer After 1 Year</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Architectural Drawing</td>
<td>✅</td>
<td>✅</td>
<td>✅</td>
</tr>
<tr>
<td><strong>Business Management &amp; Administration</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Program Completer After 1 Year</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Business Technology A</td>
<td>✅</td>
<td>✅</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Business Technology B</td>
<td>✅</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Computer Science &amp; Programming</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Program Completer After 1 Year</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Computer Science Principles (Advanced Placement)</td>
<td>✅</td>
<td>✅</td>
<td>✅</td>
</tr>
<tr>
<td><strong>Engineering &amp; Design Technology</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Program Completer After 1 Year</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Engineering and Architectural Design</td>
<td>✅</td>
<td>✅</td>
<td>✅</td>
</tr>
<tr>
<td></td>
<td>Engineering Problem Solving</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Finance &amp; Accounting</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Program Completer After 1 Year</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accounting I</td>
<td>✅</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accounting II</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Optional: Personal Economics and Finance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Marketing</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Program Completer After 1 Year</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marketing: How to Start a Business</td>
<td>✅</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marketing: Advertising</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Video &amp; Broadcasting</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Program Completer After 1 Year</td>
<td></td>
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Upon completion of a state-approved CTE program, TCAPS students may use 1.0 exchange credit for one (not multiple) of the above categories indicated with a check-mark.

When considering exchange credit, the process begins with your counselor to review your four-year high school and post-secondary plans.

All CTE programs have college credit and/or articulated options embedded in programing.
Traverse City West Senior High School  
(Grades 9-12)  

2020-2021  
COURSE  
DESCRIPTIONS
ACCOUNTING I
Course#: G59400_0 Credit: 0.5 Grade Level: 10,11,12
Students will understand how to start an accounting system, analyze transactions, and prepare financial statements. The course begins with sole proprietorship, service businesses and progresses to merchandising businesses, including special journals and payroll records. If this course is taken as a senior, successful completion will earn 0.5 credit meeting the Michigan Merit Curriculum requiring one math course in the final year of high school. College credit available through NMC and Davenport University if final grade is a B+ or above in Accounting I and Accounting II.

ACCOUNTING II
Course#: G59500_0 Credit: 0.5 Grade Level: 10,11,12
Prerequisite: Accounting I successfully completed.
This class is a continuation of Accounting I. Emphasis will be on financial statements for merchandising businesses and corporations, along with special procedures for stockholders' equity, cash funds, depreciation, uncollectible accounts, inventories, and notes payable/receivable. If this course is taken as a senior, successful completion will earn 0.5 credit meeting the Michigan Merit Curriculum requiring one math course in the final year of high school. College credit available through NMC and Davenport University if final grade is a B+ or above in Accounting I and Accounting II.

BUSINESS LAW
Course#: G59300_0 Credit: 0.5 Grade Level: 10,11,12
Legal concepts are applied to daily personal and business situations. Topics include individual rights and responsibilities regarding contracts, consumer protection, employment law and special business applications.

CAREER INTERNSHIP
Course#: G88900_0 Credit: 0.5 Grade Level: 11,12
Prerequisite: Students must fill out an application to be in this course. Applications are available in the counseling office. Students will work 60 hours during the semester with an employer that matches their career choice in order to gain awareness in an occupational area. Students will meet with the internship coordinator to turn in time logs, necessary paperwork, and to discuss their experiences out in the community. Grades will be based upon attendance at meetings, timesheets, computer check-ins, self-evaluation, and an evaluation by their employer. Students must provide their own transportation.

WORK EXPERIENCE (1 HR.)
Course#: G58400_0 Credit: 0.5 Grade Level: 11,12
Do you have a job? Are you working at least 10 hours per week? Earn money and credit at the same time through a work-based learning experience coordinated by the school district through a contract (training agreement) with your employer providing an educational experience.

WORK EXPERIENCE (2 HRS.)
Course#: G58500_0 Credit: 1 Grade Level: 11,12
Do you have a job? Are you working at least 15 hours per week? Earn money and credit at the same time through a work-based learning experience coordinated by the school district through a contract (training agreement) with your employer providing an educational experience.

ACCOUNTING II
Course#: G59500_0 Credit: 0.5 Grade Level: 10,11,12
Prerequisite: Accounting I successfully completed.
This class is a continuation of Accounting I. Emphasis will be on financial statements for merchandising businesses and corporations, along with special procedures for stockholders' equity, cash funds, depreciation, uncollectible accounts, inventories, and notes payable/receivable. If this course is taken as a senior, successful completion will earn 0.5 credit meeting the Michigan Merit Curriculum requiring one math course in the final year of high school. College credit available through NMC and Davenport University if final grade is a B+ or above in Accounting I and Accounting II.

BUSINESS LAW
Course#: G59300_0 Credit: 0.5 Grade Level: 10,11,12
Legal concepts are applied to daily personal and business situations. Topics include individual rights and responsibilities regarding contracts, consumer protection, employment law and special business applications.

CAREER INTERNSHIP
Course#: G88900_0 Credit: 0.5 Grade Level: 11,12
Prerequisite: Students must fill out an application to be in this course. Applications are available in the counseling office. Students will work 60 hours during the semester with an employer that matches their career choice in order to gain awareness in an occupational area. Students will meet with the internship coordinator to turn in time logs, necessary paperwork, and to discuss their experiences out in the community. Grades will be based upon attendance at meetings, timesheets, computer check-ins, self-evaluation, and an evaluation by their employer. Students must provide their own transportation.

WORK EXPERIENCE (1 HR.)
Course#: G58400_0 Credit: 0.5 Grade Level: 11,12
Do you have a job? Are you working at least 10 hours per week? Earn money and credit at the same time through a work-based learning experience coordinated by the school district through a contract (training agreement) with your employer providing an educational experience.

WORK EXPERIENCE (2 HRS.)
Course#: G58500_0 Credit: 1 Grade Level: 11,12
Do you have a job? Are you working at least 15 hours per week? Earn money and credit at the same time through a work-based learning experience coordinated by the school district through a contract (training agreement) with your employer providing an educational experience.

BUSINESS

ENGLISH LANGUAGE ARTS

ENGLISH LANGUAGE ARTS-9
Course#: G00600_1 Credit: 1 Grade Level: 9
The goal for English Language Arts-9 is to build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complex ideas, texts, and tasks. In English Language Arts-9, students will be introduced to the various genre of classic and contemporary narrative and informational texts that will be read and analyzed throughout high school. Essential questions within each unit will guide students to connect with and respond to the texts. Students are required to complete four performance writing tasks, including common core grade level research skills.

ENGLISH LANGUAGE ARTS-9 (HONORS)
Course#: G00500_1 Credit: 1 Grade Level: 9
The goal for English Language Arts-9 is to build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complex ideas, texts, and tasks. In English Language Arts-9, students will be introduced to the various genre of classic and contemporary narrative and informational texts that will be read and analyzed throughout high school. Essential questions within each unit will guide students to connect with and respond to the texts. Students are required to complete four performance writing tasks, including common core grade level research skills.

ENGLISH LANGUAGE ARTS-10
Course#: G08200_1 Credit: 1 Grade Level: 10
The goal for English Language Arts-10 is to continue to build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complex ideas, texts, and tasks. Students will add to the list of various genre of classic and contemporary narrative and informational texts that will be read and analyzed throughout high school. Tenth grade students will connect with and respond to texts through critical response and analysis. Essential questions within each unit will guide students to connect with and respond to the texts. Students are required to complete four performance writing tasks, including common core grade level research skills.

ENGLISH LANGUAGE ARTS-10 (HONORS)
Course#: G08100_1 Credit: 1 Grade Level: 10
The goal for English Language Arts-10 is to continue to build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complex ideas, texts, and tasks. Students will add to the list of various genre of classic and contemporary narrative and informational texts that will be read and analyzed throughout high school. Tenth grade students will connect with and respond to texts through critical response and analysis. Essential questions within each unit will guide students to connect with and respond to the texts. Students are required to complete four performance writing tasks, including common core grade level research skills.
ENGLISH LANGUAGE ARTS-11
Course#: G07000_1 Credit: 1 Grade Level: 11
The goal for English Language Arts-11 is to continue to build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complex ideas, texts, and tasks. In English Language Arts-11, students will add to the list of various genre of classic and contemporary narrative and informational texts that will be read and analyzed throughout high school with a special focus on American Literature and SAT success. Eleventh grade students will connect with and respond to texts through transformational thinking. Essential questions within each unit will guide eleventh grade students to connect with and respond to the texts. Students are required to complete four performance writing tasks, including common core grade level research skills.

ENGLISH LANGUAGE ARTS-12
Course#: G07700_1 Credit: 1 Grade Level: 12
The goal for this class is to refine, apply, and extend the solid foundation of knowledge, skills, and strategies developed in English Language Arts-11. Using the lens of leadership skills, English Language Arts-12 students will develop a world perspective by analyzing classic and contemporary texts in a variety of genres, including a focus on British literature. Twelfth grade students will synthesize information, ideas, and themes to understand the past, the present, and to think innovatively about the future. Essential questions within each unit will guide twelfth grade students to connect with and respond to the texts. Students are required to complete performance writing tasks, including common core grade level research skills. Students will identify and apply their own leadership skills in a required senior project, which culminates in a final research capstone (recommendation) paper.

ENGLISH LITERATURE & COMPOSITION (ADVANCED PLACEMENT)
Course#: G09300_1 Credit: 1 Grade Level: 11,12
Can be taken in place of ELA-11 or ELA-12
The AP Literature and Composition curriculum is a college English class, and, by good performance on the AP Exam in May, students can earn up to one year of college credit and/or advanced placement in college English. Thus, the course requires of its students width, depth, and maturity of reading and writing experience. Writing, as an integral part of the course will reinforce the critical reading skills taught across the spectrum of genres. Writing, focusing on literary analysis, will demonstrate a student’s ability to organize ideas coherently, critically, and persuasively. At the heart of the course is the study of an author’s use of language to achieve purpose including tone, voice, and literary elements. In addition to the classroom curriculum, students will read numerous outside texts and submit a written response for each. The course workload and pace are college level and will include practice AP examinations throughout the year. Summer reading is required. Each student is responsible for acquiring summer reading assignments from counseling and/or course instructor. Assessments over the summer reading will be administered the first weeks of school. (This course is authorized to use the AP)

ENGLISH LANGUAGE & COMPOSITION (ADVANCED PLACEMENT)
Course#: G09400_1 Credit: 1 Grade Level: 11,12
Can be taken in place of ELA-11 or ELA-12
The AP Language and Composition curriculum is designed as a college English class, and therefore requires of its students a mature depth of experience in reading, writing, and critical thinking skills. The fundamental objective of the course, exploring language and its functions, will be accomplished through extensive student writing, as well as, close readings of published essays and examination of their structures of language such as diction, tone, use of detail, syntax, and audience. In terms of the course work, students are expected to write every week and read roughly one hundred pages per week including careful analysis to prepare daily for thoughtful class discussion. In addition to the textbooks, students will read 2-3 novels and write critical responses for each. AP sample essays and multiple-choice questions will be administered periodically in preparation for the AP exam in May. Summer reading is required. Each student is responsible for acquiring summer reading assignments from counseling and/or course instructor. Assessments over the summer reading will be administered the first weeks of school. (This course is authorized to use the AP)
| **Prerequisite:** Recommendation of an Instructor | **Advanced Placement (AP) exams might earn you credit for classes at NMC.**

| **to take the Advanced Placement Psychology exam in May.**

| **Your scores on readings and activities. This course is designed for self-motivated students to read and annotate a college level text, and prepare for class with outside readings and activities. This course is designed for self-motivated students who enjoy a challenge, and interacting at all levels. It will prepare students to analyze and apply these concepts. Students will be expected to complete an extended goal setting project in which they apply concepts from the course to their own lives.**

| **Introduction to Psychology provides students an opportunity to gain personal insights into themselves and others. The class is designed to provide an overview of basic psychological concepts, technical vocabulary, and theories in the fields of psychology including: history and methods, brain bases of behavior, perception, learning, development, cognition, personality memory, abnormal behavior and treatments, stress and health, motivation, and emotion and social psychology among others.**

| **Introduction to Sociology offers students a taste of the many branches of Sociology. Sociology is the study of humans, groups, societies, and social interaction, and its effects on society as a whole. This class encompasses critical thinking, analyzing social concern, and encourages students to look at society from a new perspective.**

| **ASD MENTORING**

| **Course#: G88800_0**
| **Credit: 0.5**
| **Grade Level: 11,12**

| **Do you enjoy helping other people? Are you interested in working with students with disabilities? Students enrolled in the ASD Mentoring course will learn about Autism from experts in the field. What is Autism Spectrum Disorder? What are the likely causes? What are the typical symptoms? How can mentors make a positive impact on the lives of students with Autism? As mentors, students will gain first-hand knowledge of Autism and the challenges it brings. Students will spend significant time working directly with their peers with Autism. Students will engage in training, reflecting, and creating activities. Throughout the semester, students will learn about other developmental disorders, such as Attention Deficit Hyperactive Disorder (ADHD), Down Syndrome, and Fetal Alcohol Syndrome. In addition, students will learn about the challenges and struggles faced by students with special educational needs, such as learning disabilities and cognitive or emotional impairments. If you want to have a meaningful, learning experience AND make a difference in someone’s life, this course is right for you! See your counselor for an application.**

| **INTRODUCTION TO PSYCHOLOGY**

| **Course#: G85400_0**
| **Credit: 0.5**
| **Grade Level: 10,11,12**

| **INTRODUCTION TO SOCIOLOGY**

| **Course#: G85300_0**
| **Credit: 0.5**
| **Grade Level: 11,12**

| **Prerequisite:** Recommendation of an Instructor

| **This course is designed as a working study of the nation-state system under which international politics is carried out in today’s world. The class will be organized to represent three to five nations and each student will role-play an assignment on a U.N. committee while representing the nation to which he/she is assigned. Emphasis is placed on decision-making, knowledge of the United Nations, and of the diplomatic process. Participants will be expected to pay for part of their expenses to conferences.**

| **MODEL UNITED NATIONS (HONORS)**

| **Course#: G85200_0**
| **Credit: 0.5**
| **Grade Level: 10,11,12**

| **Why do some athletes choke under pressure? How do athletes motivate themselves? What should all athletes know about goal setting? These questions and many more will be answered in Applied Sport Psychology. This course focuses on the psychological principles, which are critical to performance in sport settings, as well as other performance situations, such as public speaking or academic testing. This course will help students learn how to apply psychological techniques to improve their own performance or the performance of others. Applied Sport Psychology is designed for students who are interested in psychology and how it applies to sport, exercise, physical activity, and other performance situations. Some of the concepts covered in this class will include: motivation, goal setting, leadership, imagery, anxiety, teamwork, self-confidence, and concentration. Students taking this course should be prepared to complete an extended goal setting project in which they apply concepts from the course to their own lives.**

| **APPLIED SPORT PSYCHOLOGY**

| **Course#: G84800_0**
| **Credit: 0.5**
| **Grade Level: 9,10,11,12**

| **The Library/Media Center Course offers students an opportunity to learn the systems and technologies used in a Library/Media Center. Technological and interpersonal skills are stressed. The student will participate in several projects throughout the term.**

| **LIBRARY/MEDIA CENTER COURSE**

| **Course#: G81900_0**
| **Credit: 0.5**
| **Grade Level: 10,11,12**

| **PSYCHOLOGY (ADVANCED PLACEMENT)**

| **Course#: G85600_1**
| **Credit: 1**
| **Grade Level: 11,12**

| **This course will provide historical background to the criminal justice system. The material will be relevant to the study of criminal justice, and will emphasize information for those students interested in careers in the criminal justice system. Information will focus on current issues and concerns to our criminal justice systems. This course will also provide a guide for understanding of the law enabling the student to apply this knowledge to their lives as informed citizens. Areas covered: the reasons for law/justice; crime in America; introduction to criminal law; defenses; the criminal justice process; juvenile justice; differences between the juvenile and the adult justice systems; and differences among criminal justice systems around the world.**

| **CRIME AND JUSTICE**

| **Course#: G85100_5**
| **Credit: 0.5**
| **Grade Level: 10,11,12**

| **STUDENT SENATE (ELECTED)**

| **Course#: G85500_1**
| **Credit: 1**
| **Grade Level: 9,10,11,12**

| **Prerequisite:** Course involves working on the WSH Greek Squad or in Tech Central at CHS for Internship Credit. Students must fill out an application available in the counseling office. Throughout this course you will learn the skills necessary to support other students using a school-issued laptop within your building. The course covers application use, data backup and recovery, proper use and maintenance of school technologies, ethical use of technology, and customer service principles. It involves a combination of supporting other students, career internships, and completion of online course work.**

| **STUDENT INTERN-TECH**

| **Course#: G87300_0**
| **Credit: 0.5**
| **Grade Level: 9,10,11,12**

| **Prerequisite:** Course involves working on the WSH Greek Squad or in Tech Central at CHS for Internship Credit. Students must fill out an application available in the counseling office. Throughout this course you will learn the skills necessary to support other students using a school-issued laptop within your building. The course covers application use, data backup and recovery, proper use and maintenance of school technologies, ethical use of technology, and customer service principles. It involves a combination of supporting other students, career internships, and completion of online course work.**

| **APPLIED SPORT PSYCHOLOGY**

| **Course#: G84800_0**
| **Credit: 0.5**
| **Grade Level: 9,10,11,12**

| **Why do some athletes choke under pressure? How do athletes motivate themselves? What should all athletes know about goal setting? These questions and many more will be answered in Applied Sport Psychology. This course focuses on the psychological principles, which are critical to performance in sport settings, as well as other performance situations, such as public speaking or academic testing. This course will help students learn how to apply psychological techniques to improve their own performance or the performance of others. Applied Sport Psychology is designed for students who are interested in psychology and how it applies to sport, exercise, physical activity, and other performance situations. Some of the concepts covered in this class will include: motivation, goal setting, leadership, imagery, anxiety, teamwork, self-confidence, and concentration. Students taking this course should be prepared to complete an extended goal setting project in which they apply concepts from the course to their own lives.**

| **LIBRARY/MEDIA CENTER COURSE**

| **Course#: G81900_0**
| **Credit: 0.5**
| **Grade Level: 10,11,12**

| **The Library/Media Center Course offers students an opportunity to learn the systems and technologies used in a Library/Media Center. Technological and interpersonal skills are stressed. The student will participate in several projects throughout the term.**

| **CRIME AND JUSTICE**

| **Course#: G85100_5**
| **Credit: 0.5**
| **Grade Level: 10,11,12**

| **This course will provide historical background to the criminal justice system. The material will be relevant to the study of criminal justice, and will emphasize information for those students interested in careers in the criminal justice system. Information will focus on current issues and concerns to our criminal justice systems. This course will also provide a guide for understanding of the law enabling the student to apply this knowledge to their lives as informed citizens. Areas covered: the reasons for law/justice; crime in America; introduction to criminal law; defenses; the criminal justice process; juvenile justice; differences between the juvenile and the adult justice systems; and differences among criminal justice systems around the world.**
CONFLICT RESOLUTION

Course #: G80500_1  Credit: .5  Grade Level: 11, 12

This course will equip student mentors with the skills necessary to become neutral third parties to peacefully assist other students in the management and resolution of interpersonal disputes. Student mentors will participate in a rigorous training program that will prepare them to mediate a variety of conflicts that affect the student body. Student mentors will work with professionals in the community who are experts in the field of conflict resolution as well as TCAPS staff members that will support their daily learning. The student body will seek help to resolve conflicts through this resolution group which, as a result, will reduce staff time spent on discipline, prevent escalation of conflict, and improve school climate to increase academic achievement. Developing these skills will empower students to solve future conflicts without relying on adults to solve their problems for them. In addition, each student in this course will be assigned one freshman student to mentor.

RECONNECTING YOUTH

Course#: G82400_0  Credit: .5  Grade Level: 9, 10, 11, 12

Reconnecting Youth is a semester long elective course for students in grades 9-12. Reconnecting Youth works in a small group setting and focuses on self-esteem enhancement, decision-making, personal control and interpersonal communication. It is designed to increase school performance, increase drug use awareness, and increase mood management. This class is only offered at Traverse City High School.

HEALTH & PHYSICAL EDUCATION

HEALTH & PHYSICAL EDUCATION I

Course#: G74200_0  Credit: 0.5  Grade Level: 9, 10, 11, 12

Students will be exposed to a variety of fitness activities, as well as individual and team sports. The focus of the class is lifelong fitness and wellness. The health curriculum follows the content standards from the Michigan Merit Curriculum Credit Guidelines. The following health topics will be addressed: nutrition and physical activity, safety (preventing violence), personal health and wellness, and CPR. This course may be taken at any time; before or after Working on Wellness I.

HEALTH & PHYSICAL EDUCATION II

Course#: G74300_0  Credit: 0.5  Grade Level: 9, 10, 11, 12

Students will be exposed to a variety of fitness activities, as well as individual and team sports. The focus of the class is lifelong fitness and wellness. The health curriculum follows the content standards from the Michigan Merit Curriculum Credit Guidelines. The following health topics will be addressed: alcohol, tobacco, and other drugs, social and emotional health, HIV prevention, and sexuality education. This course may be taken at any time; before or after Health & Physical Education I.

WORKING ON WELLNESS I

Course#: G73800_0  Credit: 0.5  Grade Level: 9, 10, 11, 12

This course is designed for students who wish to participate in an alternative physical education setting. Students will be exposed to a variety of fitness activities, as well as modified individual and team sports. The focus of the class is lifelong fitness and wellness. The health curriculum follows the content standards from the Michigan Merit Curriculum Credit Guidelines. The following health topics will be addressed: nutrition and physical activity, safety (preventing violence), personal health and wellness, and CPR.

WORKING ON WELLNESS II

Course#: G74000_0  Credit: 0.5  Grade Level: 9, 10, 11, 12

This course is designed for students who wish to participate in an alternative physical education setting. Students will be exposed to a variety of fitness activities, as well as modified individual and team sports. The focus of the class is lifelong fitness and wellness. The health curriculum follows the content standards from the Michigan Merit Curriculum Credit Guidelines. The following health topics will be addressed: alcohol, tobacco, and other drugs, social and emotional health, HIV prevention, and sexuality education. This course may be taken at any time; before or after Working on Wellness I.

PHYSICAL OUTDOOR EDUCATION

Course#: G71500_0  Credit: 0.5  Grade Level: 9, 10, 11, 12

This is an activity course designed to promote team building, cooperation, and trust through a variety of activities such as large group games, group initiatives, problem solving, and trust activities. Activities may include: snowshoeing, skiing, orienteering, basic survival skills, archery, geocaching, and frisbee disc golf and racquet sports.

SPORTS ACTIVITIES

Course#: G71400_0  Credit: 0.5  Grade Level: 9, 10, 11, 12

Students will be exposed to a variety of individual and team sports. Skills and modified games will be used as progression. Cardiovascular fitness activities will also be incorporated.

WEIGHTS & CONDITIONING

Course#: G70600_0  Credit: 0.5  Grade Level: 9, 10, 11, 12

The course focuses on building muscular strength and endurance through free weights, machine weights, and strength building activities. Proper lifting technique, safety, and spotting will be emphasized. Cardiovascular fitness activities will also be incorporated.

ADVANCED WEIGHTS & CONDITIONING

Course#: G70650_0  Credit: 0.5  Grade Level: 9, 10, 11, 12

Prerequisite: Successful completion of Weights & Conditioning

The Advanced Weights & Conditioning course focuses on further building muscular strength and endurance through free weights, machine weights, and strength building activities. Proper lifting technique, safety, and spotting will be emphasized. Cardiovascular fitness activities will also be incorporated. This course is designed to be taken after completing the regular Weights & Conditioning course.

PERSONAL FITNESS

Course#: G70800_0  Credit: 0.5  Grade Level: 9, 10, 11, 12

This course is designed for students interested in achieving healthy levels of fitness and wellness through a variety of lifelong activities. Students will design an individualized fitness program to improve cardiovascular fitness, muscular strength/endurance, body composition, and flexibility.
MATHMATICS

ALGEBRA I
Course#: G30700_1 Credit: 1 Grade Level: 9
Algebra I is the first course in a four-year sequence. The Algebra I course will include the following: the practice of operations with algebraic expressions including exponents, radicals and absolute value; an analytical and graphing approach to functions, including linear, quadratic and exponential equations; solving linear and quadratic equations and inequalities; solving systems of linear equations; basic operations relating to polynomials, including factoring; data exploration including fitting lines to data; proportional reasoning and variation, and probability.

ALGEBRA II
Course#: G38400_1 Credit: 1 Grade Level: 10,11,12
Algebra II is the third course in a four-year sequence, which includes topics that historically have been included in a high school pre-calculus curriculum. The graphing calculator is one of the tools used in developing and understanding the concepts of this course. Throughout the course, the students will be connecting and applying algebraic concepts to geometry, statistics, data analysis, probability, and discrete mathematics. The following topics will be included in the Algebra II course; introduction to matrices and their applications; further work with exponential functions and their inverses, logarithmic functions; quadratic relations and conic sections; sequences and series; probability and statistics, including the counting principle, permutations and combinations; exploring trigonometric (circular) functions.

ALGEBRA II (HONORS)
Course#: G31500_1 Credit: 1 Grade Level: 10,11,12
This is a course for motivated students that are thinking about majoring in math, science, or business. This course will encompass all topics taught in Algebra II and will also include other topics that will challenge students and deepen their understanding of mathematical concepts. Honors Algebra II includes topics that historically have been included in a high school algebraic curriculum. The graphing calculator is one of the tools used in developing and understanding the concepts of this course. Throughout the course, the students will be connecting and applying algebraic concepts to geometry, statistics, data analysis, probability, and discrete mathematics. The following topics will be included in the Honors Algebra II course; introduction to matrices and their applications; further work with exponential functions and their inverses, logarithmic functions; quadratic relations and conic sections; sequences and series; probability and statistics, including the counting principle, permutations and combinations; exploring trigonometric (circular) functions. Students must be accepted into the SCI-MA-TECH program to select this course.

CALCULUS/AB (ADVANCED PLACEMENT)
Course#: G39200_1 Credit: 1 Grade Level: 11,12
This course covers all topics tested on the Advanced Placement Calculus AB exam. The course is comparable to a full-year course offered in colleges and universities. It is strongly suggested that students have their own graphing calculator for the class. Your scores on Advanced Placement (AP) exams might earn you credit for classes at NMC.

CALCULUS/BC (ADVANCED PLACEMENT)
Course#: G39300_1 Credit: 1 Grade Level: 11,12
This course covers all topics tested on the Advanced Placement Calculus BC exam. The course is comparable to a one semester course taught in colleges and universities. It is strongly suggested that students have their own graphing calculator for the class. Your scores on Advanced Placement (AP) exams might earn you credit for classes at NMC.

GEOMETRY
Course#: G38200_1 Credit: 1 Grade Level: 9,10
Geometry is the second course in a four-year sequence. One of the tools that will be used in the exploration and development of geometry will include the graphing calculator. Throughout the course, students will be relating and applying geometric concepts to algebra, statistics, data analysis, probability, and discrete mathematics. The Geometry course will include the following: the role of definitions and postulates in the building of a mathematical system including various forms of proof-based conjectures; properties of angles and lines including perpendicular and parallel lines; congruence and similarity of geometric figures; properties of polygons and the relations between them; understanding of transformations of geometric figures; measurements relating to geometric figures including length, areas and volume; introduction to coordinate geometry; right triangle trigonometry.

SMT GEOMETRY-B
Course#: G32100_1 Credit: 0.5 Grade Level: 9
Geometry is the second course in a four-year sequence. One of the tools that will be used in the exploration and development of geometry will include the graphing calculator. Throughout the course, students will be relating and applying geometric concepts to algebra, statistics, data analysis, probability, and discrete mathematics. The Geometry course will include the following: the role of definitions and postulates in the building of a mathematical system including various forms of proof-based conjectures; properties of angles and lines including perpendicular and parallel lines; congruence and similarity of geometric figures; properties of polygons and the relations between them; understanding of transformations of geometric figures; measurements relating to geometric figures including length, areas and volume; introduction to coordinate geometry; right triangle trigonometry. Students must be accepted into the SCI-MA-TECH program to select this course.

SPORTS OFFICIATING
Course#: G71200_0 Credit: 0.5 Grade Level: 9,10,11,12
Sports Officiating is a one semester course designed to help students learn to officiate with proper technique and be knowledgeable of the rules. Emphasis is placed on mastery of the rules and proper techniques, and development of social interactions between different groups. Due to the ever increasing need for officials in sports, this will be a real-world connection that will lead into future employment, LEAP officiating opportunities, and respect for the game.
HONORS TRIGONOMETRY PRE-CALCULUS
Course#: G38510_1 Credit: 1 Grade Level: 10,11,12
This is a course for motivated students who were successful in Algebra II and are thinking about majoring in math, science, or business. The course will encompass all topics taught in Trigonometry/Pre-Calculus, and will also include other topics that will challenge students and deepen their understanding of the mathematical concepts. This course is recommended for sophomores and juniors intending to take AP Calculus, or for seniors who are interested in a major that will require them to take Calculus. In this class, we will build on the concepts studied in Algebra II and continue to develop an understanding of functions, their properties and behaviors. We will analyze different families of functions, including polynomials, rational, exponential, logarithmic, and piecewise functions. We will also study trigonometric and parametric functions as well as the properties of conic sections. Students will for each function family, analyze end-behavior, find rates of change, solve and write equations and inequalities, look at other behaviors unique for each function, such as, but not limited to, behavior at asymptotes and other discontinuities. The course will focus on developing the higher order thinking skills required to be successful in Calculus.

INTRODUCTION TO STATISTICS
Course#: G32500_0 Credit: 0.5 Grade Level: 11,12
This class is designed for juniors and seniors wanting statistics, but not wanting a full year of AP Statistics. The class will use real data to explore the following concepts: exploring data, describing location in a distribution, examining relationships, producing data, probability and simulation, and random variables.

MATH COLLEGE PLACEMENT PREP I
Course#: G32400_0 Credit: 0.5 Grade Level: 11,12
This class will be open to college-bound juniors who have completed Algebra II but need more preparation before taking Trig Pre-Calc, and college-bound seniors who have completed Algebra II or Trig Pre-Calc, needing more algebra preparation before moving on to college. The class will review and extend the concepts taught in Algebra II in order to help students either prepare for Trig Pre-Calc, or for the math college entrance exam (for example the compass test) as well as for college math classes.

NMC CALCULUS III-MTH 241
Course#: D39920_0 Credit: 0.5 Grade Level: 12
Prerequisite: This is a college course taught on the high school campus earning college credit. See the dual enrollment information in the course guide and/or seek guidance from your counselors.

This course covers multivariable calculus including three-dimensional analytical geometry, vector valued functions, partial differentiation, and multiple integration (with applications of each). An introduction to linear algebra will also be covered.

NMC DIFFERENTIAL EQUATIONS-MTH 251
Course#: D39930_0 Credit: 0.5 Grade Level: 12
Prerequisite: This is a college course taught on the high school campus earning college credit. See the dual enrollment information in the course guide and/or seek guidance from your counselors.

This course introduces the concepts of differential equations and of linear algebra. Topics include: solving linear and systems of linear differential equations, physical applications, slope fields, phase planes, Euler’s method, and Laplace transformations. Solutions are found using analytical, numerical, and/or graphical techniques relating to quantitative modeling. Linear algebraic topics include: vector spaces, subspaces, spanning sets, linear dependence and independence, basis and dimensions, eigenvectors, and linear transformations.

STATISTICS (ADVANCED PLACEMENT)
Course#: G39100_1 Credit: 1 Grade Level: 11,12
Prerequisite: Algebra II
The Advanced Placement Statistics course is for high school students who wish to complete studies equivalent to a one-semester, introductory, non-calculus-based college course in statistics. Like the college course, the purpose of the AP course in Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This course is an excellent option for students who have completed a third year of high school mathematics. This course is not a substitute for Pre-Calculus class. It is strongly suggested that students have their own graphing calculator for the class. Your scores on Advanced Placement (AP) exams might earn you credit for classes at NMC.

TRIGONOMETRY / PRE-CALCULUS
Course#: G38500_1 Credit: 1 Grade Level: 10,11,12
This course is the fourth course in the high school mathematics curriculum. It follows Algebra I, Geometry, and Algebra II. Trigonometry/Pre-Calculus places a heavy emphasis on functions and their characteristics described graphically and symbolically. Special attention will be given to trigonometric functions. Basic work with limits, derivatives, and integrals will be included. Real world applications will be emphasized. The following topics will be taught or enhanced in Trigonometry/Pre-Calculus: exponents and logarithms; function notation; evaluation and composition; trigonometric functions, inverses, and identities; vectors and parametric equations; conics; complex numbers; discrete topics, combinatorics, probability, and data; introduction to limits, derivatives, and integrals; polynomial and rational functions. It is strongly suggested that students have their own graphing calculator for the class.

SCI-MA-TECH LABORATORY
Course#: G20400_1 Credit: 1 Grade Level: 9
Biology is the study of living organisms and their relationship to man. Instruction will be focused on reaching our diverse student population. This will include, the four main practices of scientific literacy: identifying scientific principles, using scientific principles, using scientific inquiry, and the application of scientific principles. Instruction will include inquiry-based laboratory experiments, lecture style textbook work, related video support, and classroom participation.

BIOLOGY (HONORS)
Course#: G20500_1 Credit: 1 Grade Level: 9
Biology is the study of living organisms and their relationship to man. Instruction will be focused on reaching our diverse student population. This will include, the four main practices of scientific literacy: identifying scientific principles, using scientific principles, using scientific inquiry, and the application of scientific principles. Instruction will include inquiry-based laboratory experiments, lecture style textbook work, related video support, and classroom participation. This accelerated honors class is recommended for students who excel in math and science.

SMT BIOLOGY
Course#: G20510_1 Credit: 1 Grade Level: 9
Prerequisite: Placement assessment required.
Biology is the study of living organisms and their relationship to man. Instruction will be focused on reaching our diverse student population. This will include, the four main practices of scientific literacy: identifying scientific principles, using scientific principles, using scientific inquiry, and the application of scientific principles. Instruction will include inquiry-based laboratory experiments, lecture style textbook work, related video support, and classroom participation. Students must be accepted into the SCI-MA-TECH program to select this course.
**Prerequisite:** Recommended prior coursework: Biology & Chemistry

Advanced Placement Biology is a rigorous course designed to be the equivalent of a university-level freshman Biology course taken by Life-Science majors. After demonstrating proficiency (a 3 or better on the spring AP Biology Exam), students may be granted credit by a college or university and be able to take upper-level courses for which a biology/laboratory science course is a prerequisite. This course aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal with the rapidly changing science of biology and its impact on society at large. This course has gained international accreditation from the College Board, the licensing entity of the AP Biology Program. Recommended prior coursework includes: Biology and Chemistry. Your scores on Advanced Placement (AP) exams might earn you credit for classes at NMC.

**CHEMISTRY**

**CHEMISTRY (ADVANCED PLACEMENT)**

Course#: G29500_1  Credit: 1  Grade Level: 10,11,12

Advanced Placement Chemistry is a rigorous and challenging course equivalent to a full year of freshman-level college chemistry (with laboratory). It is appropriate for high-achieving students who are interested in majoring in science, mathematics, engineering, health or a related field in college. This course investigates a comprehensive range of chemistry topics. After demonstrating proficiency (a 3 or better on the AP exam in May), students may be granted credit by a college or university, and may be able to take upper-level courses in chemistry. This course will also provide students with a laboratory portfolio for presentation at their selected university. A summer assignment is required. Each student is responsible for obtaining the summer assignment from the instructor or counseling department. Your scores on Advanced Placement (AP) exams might earn you credit for classes at NMC.

**CHEMISTRY (HONORS)**

Course#: G29100_1  Credit: 1  Grade Level: 10,11,12

Honors Chemistry follows much the same path as regular Chemistry, but at an accelerated pace with a more rigorous application of math. It is strongly encouraged to be concurrently enrolled in Algebra II or higher.

**SMT CHEMISTRY**

Course#: G29110_1  Credit: 1  Grade Level: 10,11,12

Chemistry is a creative, demanding, and challenging course. It is an extensive traditional study of the interactions between energy and matter, utilizing technical reading and writing, demonstrations and laboratory investigations. Particular emphasis will be given to learning and understanding the periodic table, naming compounds, balancing reactions, stoichiometry, gas laws, the mole and acids/bases.

**PHYSICS**

**PHYSICS (HONORS)**

Course#: G28501_1  Credit: 1  Grade Level: 10,11,12

Recommended prior coursework: Successful completion of Chemistry, or Environmental Chemistry, or Honors Chemistry, or approval of the instructor. Recommended prior coursework in math: This heavily mathematically-based course requires competence in algebraic manipulations and substitutions, quadratic equations, right and non-right triangles, geometry, and scientific notation. This advanced course explores many of the same topics as regular Physics, but requires a higher degree of mathematics, a stronger sense of abstract reasoning and the ability and motivation to work at a more rigorous pace.

**SMT PHYSICS**

Course#: G28510_1  Credit: 1  Grade Level: 10,11,12

Students should expect to move at a faster pace with more challenging work. Recommended prior coursework in math: Physics is a mathematically rigorous science where students should be highly proficient in algebraic manipulations including exponents, multiple variable equations as well as right angle trigonometry and scientific notation. Physics is a precise and demanding class with high academic rewards. Course problems require a high level of application and abstract reasoning ability. Laboratory work requires high degree of precision and includes analysis and the gathering and interpreting of complex data. The course investigates a comprehensive range of physics topics including motion, waves, mechanics, light, optics, electrical circuits, etc. Laboratories require the use of instrumentation and computers. Students must be accepted into the SCI-MA-TECH program to select this course.

**ANATOMY AND PHYSIOLOGY**

Course#: G28400_1  Credit: 1  Grade Level: 10,11,12

Anatomy and Physiology will relate structure and function to provide an integrated view of how the human body works. Numerous applications and everyday examples will show how the human responds to disease, injuries, as well as what conditions help to optimize health. Computer simulations and/or dissections (using mammalian animal specimens) will be used to show how anatomy (structure) relates to physiology (function). The course reviews biochemistry, cell biology, tissues, and various organ systems. This course is recommended for those with an interest in health science. A successful year in Chemistry is recommended prior to enrolling in this course.

**ENVIRONMENTAL SCIENCE**

Course#: G28900_1  Credit: 1  Grade Level: 10,11,12

This course integrates the major branches of science: life, physical, chemical and earth, with environmental topics to provide students with a scientific knowledge of our planet earth, its many interconnected systems, and the ways in which human activities affect it. It is recommended that this course be taken as a preparation for the 11th grade science proficiency test. Topics covered include: ecosystem type and function, interconnections of ecosystems, food webs and chains, biogeochemical cycles, biomes, biodiversity, extinction and human population dynamics. In addition, this course explores issues surrounding the use of natural resources: water, land, air, atmosphere, climate, waste disposal, energy, and pollution.
### ENVIRONMENTAL SCIENCE (ADVANCED PLACEMENT)

**Course#: G28960_1**  
**Credit: 0.5**  
**Grade Level: 11,12**

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them.

### NUTRITION SCIENCE

**Course#: G28700_0**  
**Credit: 0.5**  
**Grade Level: 10,11,12**

Nutrition Science is the scientific understanding of how food is used in the body. This class will highlight nutrition concepts and explore the relationships between food science and nutrition. Nutrition Science is not the same as food preparation. As students progress through this course, they will use the scientific method to study the physiological, biological, and chemical basis for nutrition, food preparation, food preservation, and food processing. Science credit is granted.

### FORENSIC SCIENCE

**Course#: G28800_5**  
**Credit: 0.5**  
**Grade Level: 11,12**

Forensic science is the application of science to law. This course offers the knowledge and technology needed for analyzing evidence most often used in criminal cases. The course will focus on problem solving; students will be expected to work as individuals and in teams to solve cases using a variety of evidence types. Forensic Science is a laboratory driven class involving scientific investigations. Writing is an integral part of the course including-laboratory reports, results and conclusions, in addition to analyzing case studies. The successful incoming student demonstrates a strong competency in chemistry.

### SOCIAL STUDIES

#### CIVICS

**Course#: G19100_0**  
**Credit: 0.5**  
**Grade Level: 11,12**

To participate effectively, American citizens need intellectual and participatory skills, as well as knowledge about their government and society. The knowledge component is embodied in the form of five significant and enduring questions. These are questions that have continued to engage not only political philosophers and politicians; but are questions that do or should engage every thoughtful citizen. The five questions are: What are civic life, politics and government? What are the origins and foundations of the American political system? How does the government established by the constitution function to embody the purposes, values, and principles of American constitutional democracy? What is the relationship of the United States to other nations, and its role in world affairs? What are the roles of citizens in American society? In order to encourage students to become positive and active members of their communities, students will be required to be involved in community service and they will be required to attend a governmental meeting outside of their normal class time.

#### ECONOMICS

**Course#: G18500_0**  
**Credit: 0.5**  
**Grade Level: 11,12**

The economics content is necessary for the understanding and the analysis of a wide variety of applications, including those involving individual and household choices, personal finance issues, business and entrepreneurial decisions, and public policy. Students analyze and study economic concepts and principles in three contextual areas: individual and household context, a business context, and a government or public context and focused around four content areas: the market economy; the national economy; the international economy; and personal finance.

### EUROPEAN HISTORY (ADVANCED PLACEMENT)

**Course#: G19600_1**  
**Credit: 1**  
**Grade Level: 11,12**

AP European History is a course that examines the period of European history from 1450 to the present, concentrating on intellectual-cultural, political-diplomatic, and social-economic history. Students will engage in an analysis of themes and an evaluation of historical documents in order to trace emergent trends through several chronological periods. Students will learn to write and employ effective exposition since half of the AP European History examination is a document-based essay and a broad interpretive essay, both of which require supportive evidence. Specific areas of study will include the Renaissance, the Reformation and the Religious Wars, the Enlightenment, Napoleonic Europe, nineteenth century revolutions and political ideologies, the Age of Romanticism, twentieth century world wars, and the post war world. Timely literary works will be utilized in AP European History to illustrate historical time periods and their respective philosophical and cultural impact on future time periods. Your scores on Advanced Placement (AP) exams might earn you credit for classes at NMC.

### UNITED STATES GOVERNMENT & POLITICS (ADVANCED PLACEMENT)

**Course#: G19300_1**  
**Credit: 1**  
**Grade Level: 11,12**

This course is to prepare students for the Advanced Placement U.S. Government and Politics examination that covers the following major content areas: constitutional under-pinning of democracy; political beliefs and behaviors of individuals; political parties and interest groups; mechanisms that facilitate the communication of interests and references by like-minded citizens; the congress, the presidency, the bureaucracy and the federal courts; institutions and policy processes; and Civil Liberties and Civil Rights. Units also include state and local government. Your scores on Advanced Placement (AP) exams might earn you credit for classes at NMC.

### UNITED STATES HISTORY (ADVANCED PLACEMENT)

**Course#: G19400_1**  
**Credit: 1**  
**Grade Level: 9,10,11,12**

Surveying the history of the United States begins with the colonial period, and ends with international affairs and domestic changes in the post-1945 period, to present. In the Preface to the text, AMERICAN PEOPLE, the authors state that one of their major goals is to provide students with a rich, balanced, and thought-provoking treatment of the American past. The course is designed to provide a comprehensive overview of U.S. history, and provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. Students should learn to assess historical materials, their relevance to; a given interpretive problem, reliability and importance, and to weigh the evidence and interpretations presented in historical scholarship. This course develops the skills necessary to arrive at conclusions on the basis of an informed judgment, and to present reasons and evidence clearly and persuasively in essay format. The goal is for students to be prepared to take the college-level examination, which can earn a year college credit in U.S. History. Preparation for this exam, as well as course requirements will include striking a balance between learning factual knowledge and increasing critical thinking skills of analysis, interpretation, synthesis, and evaluation. Your scores on Advanced Placement (AP) exams might earn you credit for classes at NMC.

### UNITED STATES HISTORY & GEOGRAPHY

**Course#: G19600_1**  
**Credit: 1**  
**Grade Level: 11,12**

This is a survey course of history from the American Industrial Revolution to the Post Cold War World. Using a chronological approach, the course focuses on the issues of U.S. foreign policy, international conflict, individual and group rights, and the social economic, and political developments experienced by Americans from the end of the 19th century to the present. This course involves a study of the nation's political ideals, and the times and places where people or events challenged, violated, or expanded those ideals.
This course survey offers highly motivated students a more challenging look at history from the American Industrial Revolution to the Post Cold War World. Using a chronological approach, the course investigates issues of U.S. foreign policy and international conflict, individual and group rights, and the social, economic, and political developments experienced by Americans from the end of the 19th century to the present. This course involves an analytical study of the nation's political ideals, and the times and places where people or events challenged, violated, or expanded those ideals. As an Honors course, students should expect to move at a faster pace with more challenging work.

AP Human Geography presents high school students with the curricular equivalent of an introductory college-level course in human geography or cultural geography. Content is presented thematically rather than regionally and is organized around the discipline's main subfields: economic geography, cultural geography, political geography, and urban geography. The approach is spatial and problem oriented. Case studies are drawn from all world regions, with an emphasis on understanding the world in which we live today. Historical information serves to enrich analysis of the impacts of phenomena such as globalization, colonialism, and human-environment relationships on places, regions, cultural landscapes, and patterns of interaction.

The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts in different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge, leading interpretive issues, and important skills in analyzing types of historical evidence. Students will enjoy the following areas of concentration: human origins and human culture; the importance of farming and the world’s first cities; early empires and world religions; the first global age; the global impact of western revolutions; the modern era; and evolving identities in a global world. Your scores on Advanced Placement (AP) exams might earn you credit for classes at NMC.

This course takes a global and comparative approach to studying the world and its past to develop a greater understanding of the development of worldwide events, processes, and interactions among the world's people, cultures, societies, and environment. Integrating geography and history, Part I covers the era beginning with the height of the Roman Empire (300 C.E.) up to the eve of World War I (1914). Part II covers the World War I era to present day global issues: population growth, conflict and security, scarcity of resources, and global interdependence.

Debate is an Honors course due to the difficulty of the content. Offered one quarter (or semester), it is designed to teach extensive research techniques and their application toward the solution to a specific problem. This is a very challenging course incorporating research, reasoning, analysis, argumentation, persuasion, and speaking skills. Opportunities exist for competitive work with the school's debate team.

Students earn money while learning the fundamentals of marketing with a "hands-on" approach of operating and managing a small business. Special emphasis will be placed on the concept of entrepreneurship and provide students with a realistic framework for starting their own business. College credit available through Davenport University if students successfully complete the How to Start a Business and Advertising courses. See counselor for more information.

Students will have fun learning the fundamentals of marketing with an in-depth study of advertising. Students will apply their knowledge of advertising through applications, assessments, and projects. They will create an advertising plan for a local business as their capstone project. College credit available through Davenport University if students successfully complete the Advertising and How to Start a Business courses. See counselor for more information.

Students will acquire technology and management skills needed for school, business, and future careers. Students develop technology skills in Microsoft Word (word processing), Microsoft Excel (spreadsheet), and Web Design. Emphasis is also placed on basic business topics of leadership, teamwork, career preparation, communication, management, entrepreneurship, and financial planning through a variety of projects and assignments. All students are urged to take both sections of Business Technology and Management in order to obtain the technology and business skills needed in today's world. MOS (Microsoft Office Specialist) Certification, an industry recognized certification in the Microsoft Office suite applications is available to Business Technology and Management students for FREE! College credit is available through NMC and Davenport University if final grade is a B+ or above in Business Technology and Management A and B.
Students will acquire technology and management skills needed for school, business, and future careers. Students develop technology skills in Microsoft PowerPoint (presentation), Microsoft Access (database), and Publisher (desktop publishing). Emphasis is also placed on basic business topics of business ethics, international business, human resource management, operations and marketing through a variety of projects and assignments. All students are urged to take both sections of Business Technology and Management in order to obtain the technology and business skills needed in today’s world. MOS (Microsoft Office Specialist) Certification, an industry recognized certification in the Microsoft Office suite applications is available to Business Technology and Management students for FREE! College credit is available through NMC and Davenport University if final grade is a B+ or above in Business Technology and Management A and B.

**SCHOOL NEWSPAPER**

**Video Production** is a course that introduces students to the structure, content, theory, and technical aspects of video production as it applies to the television broadcasting, commercial video production, as well as the film industry. Students will study and apply many video and film production techniques and concepts related to both digital editing and videography. After acquiring knowledge of the basic skills used in planning, creating, and editing video projects, students will work in small groups to create various video-based projects using digital recording and editing equipment. This is a challenging “hands-on” course for the creative individual who wishes to explore and work with the rapidly growing media.

**ADVANCED VIDEO (TELEVISION) PRODUCTION**

Course#: G97300_0  
Credit: 0.5  
Grade Level: 9,10,11,12  

Prerequisite:  Must have successfully completed Video (TV) Production or are requesting it at this time prior to taking Adv. Video (Television) Production

Video Production is a course that introduces students to the structure, content, theory, and technical aspects of video production as it applies to the television broadcasting, commercial video production, as well as the film industry. Students will study and apply many video and film production techniques and concepts related to both digital editing and videography. After acquiring knowledge of the basic skills used in planning, creating, and editing video projects, students will work in small groups to create various video-based projects using digital recording and editing equipment. This is a challenging “hands-on” course for the creative individual who wishes to explore and work with the rapidly growing media. Advanced students will be challenged to continually increase their video production and advanced editing skills and will work on projects of their own creation and video projects for the benefit of the TCAPS community.

**THEATRE ARTS II- BEGINNING PLAY PRODUCTION**

Course#: G91600_0  
Credit: 0.5  
Grade Level: 9,10,11,12  

Theatre Arts I is the study of various aspects of acting. Students will perform monologues, pantomimes, and scene work with major emphasis on developing characterization and stage movement. Performances will primarily be done in class.

**ADDITIONAL COURSES**

**BUSINESS TECHNOLOGY AND MANAGEMENT B (BT)**

Course#: G94500_0  
Credit: 0.5  
Grade Level: 10,11,12  

**STAGECRAFT**

Course#: G91500_0  
Credit: 0.5  
Grade Level: 10,11,12  

Stagecraft is a one semester course with an emphasis on independent learning and problem solving. This class will provide the technical theatre support for school productions. Emphasis in this class is on design and execution in the areas of set, lighting, make-up, publicity and costuming. Because the content will vary with each production, this class may be taken for credit more than once. Attendance at after-school practices, performances, and/or work bees is required for credit.

**Theatre Arts II** will hone skills learned in Theatre Arts I and will involve a one-act play production. Major emphasis in this course will be placed on further development of character, stage movement, and ensemble building. The course will result in a public performance of a one-act play that will require the participation of each student. Attendance at out-of-school practices and performances is required for credit.
Theatre Arts III Advanced Theatre
Course#: G91800_0  Credit: 0.5  Grade Level: 10,11,12
Prerequisite: Placed by audition
Theatre Arts III will build on skills learned in Theatre Arts I and II. Emphasis will be placed on advanced techniques and principles of acting theory and the production of a full-length play of historical, social, and/or literary significance. Public performances of the play will require the participation of each student. Attendance at out-of-school practices and performances is required for credit. Placement in the class is by audition or permission of instructor.

Visual, Performing and Applied Arts (STEM)

Introduction to Robotics
Course#: G95810_0  Credit: 0.5  Grade Level: 9,10,11,12
This is an introductory first course in robotics. Students will explore basic robotic concepts including movement, sensors, and task-based programming. The students will use the Arduino platform in C++ to explore simple programmable circuits and begin building autonomous moving robots. Students will also work with VEX robotics platforms to create unmanned systems while programming in RobotC. The course will involve team-based design and problem solving strategies.

Advanced Robotics
Course#: G95820_0  Credit: 0.5  Grade Level: 9,10,11,12
Prerequisite: Introduction to Robotics
This course is an extension of an introductory robotics course. Students will work within the VEX programming and build environment along with developing custom solutions to problems using the Arduino development environment. Students will work in teams and be expected to solve challenges that will require them to develop creative and cooperative skill sets. The course will culminate with the students completing an extensive final project in an area of their interest.

AP Computer Science Principles
Course#: G95840_1  Credit: 1  Grade Level: 9,10,11,12
AP Computer Science Principles introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design.

Programming A
Course#: G92400_0  Credit: 0.5  Grade Level: 10,11,12
This is a first course in programming. Students will learn to use a computer system to write programs and problem solve. Course topics include basic computer use, variables, expression statements, loops, strings, formatting, arrays and graphics as well as appropriate program design. The class is taught through lecture, discussion, and primarily lab work.

Programming B
Course#: G92500_5  Credit: 0.5  Grade Level: 10,11,12
Prerequisite: Programming A
This course is a continuation of Programming A. Students will refine and extend skills learned in the Programming A course. Course topics will include review of materials from the first course and continue with graphics, arrays, sorting, file types, and document interface as well as appropriate program design. This class is taught through lecture, discussion, and primarily lab work. This course may be taken for more than one semester.

Introduction to Engineering & Architectural Design
Course#: G92700_0  Credit: 0.5  Grade Level: 9,10,11,12
Imagine the designs you could create! Your STEM pathway begins here where you will explore exciting high demand and high wage careers in engineering and architecture. Students are introduced, through hands-on projects, to how ideas become a reality by utilizing the design process and communicating ideas through visual representations. Students will be introduced to various 3D solid modeling software, 3D printing, laser cutting and CNC milling to develop solutions that could solve real world problems. Students will also gain exposure to regional and state competitions.

Engineering Problem Solving
Course#: G92800_0  Credit: 0.5  Grade Level: 9,10,11,12
Prerequisite: Introduction to Engineering & Architectural Design (formerly Engineering Graphics)
Your STEM pathway to high demand and high wage careers continues here where you will build on the skills learned from Intro to Engineering & Architectural Design. Explore, through hands-on projects, how your ideas become a reality. Students will advance their skills using 3D solid modeling software and industry equipment (3D Printers, laser cutters and CNC mills) to design solutions that solve real world problems. Design, imagination, and creativity are all key elements within this course. This class is project-oriented and will give each student an excellent background for future engineering and technical career programs. Students will also gain exposure to regional and state competitions.

Architectural/Interior Design A
Course#: 92300_1  Credit: 0.5  Grade Level: 10,11,12
Prerequisite: Introduction to Engineering & Architectural Design (formerly Engineering Graphics)
Interested in a rewarding architecture, interior design or civil engineering career? Students explore architectural design through hands-on projects, using various 3D modeling programs and seeing how to use industry equipment (3D Printers, Laser Cutters and CNC mills) to design residential or commercial projects. Your imagination is your only limit. This course provides you with the freedom to design and create a digital simulation of an architectural structure. Opportunities to participate in architectural competitions and field trips to expand exposure to architectural styles and influences are also offered throughout the course.

Architectural/Interior Design B
Course#: 92300_2  Credit: 0.5  Grade Level: 10,11,12
Prerequisite: Architectural/Interior Design A
This hands-on course continues from the Architectural/Interior Design A course exploring careers in architecture, interior design or civil engineering. Students explore how to create their own architectural design, illustrations and modeling to present to potential clients. Students continue strengthening their skills using various 3D modeling programs and industry equipment (3D Printers, Laser Cutters and CNC mills) to design solutions to design challenges. Your imagination is your only limit. This course provides you with the freedom to create a digital simulation and to model the experiences and challenges that civil engineers and architects face. Opportunities to participate in architectural competitions and field trips to expand exposure to architectural styles and influences are also offered throughout the course.

Engineering/Technology A
Course#: G92900_0  Credit: 0.5  Grade Level: 9,10,11,12
Prerequisites: Introduction to Engineering & Architectural Design (formerly Engineering Graphics) and students are encouraged to take Engineering Problem Solving first.
Continuing from Engineering Problem Solving students explore what it is like to be an engineer, through hands-on projects. Students gain confidence using 3D solid modeling software and Industry equipment (3D printers, laser cutters and CNC mills) to design solutions that solve real world problems. The major focus is to expose students to the design process, engineering concepts, teamwork, communication methods, and global & human impacts. Students will also gain exposure to regional and state competitions.
### ENGINEERING/TECHNOLOGY B

**Course#: G92200_0**  
**Credit: 0.5**  
**Grade Level: 10,11,12**

**Prerequisite:** Engineering Technology A

Creating digital ideas that develop in front of your eyes is empowering. In this course you will continue building on the skills learned from Engineering Technology A. Students will explore more advanced concepts and features in industry-leading 3D solid modeling software and industry equipment to design solutions that solve real world problems. The major focus is to expose students to the design process, engineering, robotics, programming, teamwork, communication methods, and global and human impacts. Students will also gain exposure to regional and state competitions.

### ADVANCED ENGINEERING AND DESIGN

**Course#: G92100_0**  
**Credit: 0.5**  
**Grade Level: 11,12**

**Prerequisite:** Engineering Technology A & B

This course builds on the skills learned in Engineering Technology A and B. Emphasis will be placed on advanced concepts and features in industry-leading 3D solid modeling software and Industry equipment to design solutions that solve real world problems. The focus of the course will be on individual student projects and allowing students to progress at their own pace. Students will also gain exposure to regional and state competitions. This course is project-oriented and will give each student an excellent background for future engineering and technical career programs. This course can be taken in both semesters.

### DRONES, MAPPING, CAD, & STORYTELLING: TECHNOLOGY IN THE FIELD

**Course#: G92110_0**  
**Credit: 0.5**  
**Grade Level: 11,12**

Students will be exposed to multiple fields of study in STEM through the use of Drones, Mapping, CAD and Storytelling. Students will learn mapping skills in 2D and 3D and incorporate Drone technology. Students will also capture imagery with drone-mounted cameras and learn to analyze and transform that imagery into 2D maps with multispectral imagery, and 3D maps with georeferencing. This course is a pilot at West Senior High beginning in the 2020-2021 school year.

### INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS

**Course#: G92620_0**  
**Credit: 0.5**  
**Grade Level: 11,12**

This course introduces geographic information systems (GIS) concepts and ArcGIS tools used to visualize real-world features, discover patterns, and communicate information. GIS is a framework for gathering, managing, and analyzing data. Rooted in the science of geography and engineering, GIS integrates many types of data. It analyzes spatial location and organizes layers of information into visualizations using maps and 3D scenes. Using ArcMap and ArcGIS Online, you will work with GIS maps, explore data, and analyze maps and data as you learn fundamental concepts that underlie GIS technology.

NMC Dual Enrollment Credit (3 college credits) is available for this course. See your counselor for more information. This course is a pilot at West Senior High beginning in the 2020-2021 school year.
METALS & JEWELRY I
Course#: G64400_5  Credit: 0.5  Grade Level: 9,10,11,12
This course covers basic techniques and concepts of metalsmithing such as cutting, sawing, drilling, riveting, filing, and casting. Students will learn both cold and heat joining fabrication techniques to create a variety of projects including key chains, necklaces, earrings, pins, and rings. Materials for required work will be provided. Students may supply their own sterling silver or other optional materials such as beads, chains, and cords.

METALS & JEWELRY II
Course#: G64410_5  Credit: 0.5  Grade Level: 9,10,11,12
Prerequisite:  Metals & Jewelry I or instructor approval
This course is a continuation of Metals and Jewelry I and will emphasize cold and heat joining fabrication techniques, as well as an introduction to small scale casting, bending, and forming techniques. Materials for required work will be provided. Students may supply their own sterling silver or other optional materials such as beads, chains, and cords.

PAINTING I
Course#: G64000_5  Credit: 0.5  Grade Level: 9,10,11,12
This course will explore techniques in painting. Media to be used includes watercolor, acrylics, and tempera. Surfaces such as paper, canvas board, Masonite, and canvas cloth will be prepared for painting. A study of some historical approaches to painting will lead to traditional and innovative techniques in class.

PAINTING II
Course#: G64010_5  Credit: 0.5  Grade Level: 9,10,11,12
Prerequisite:  Drawing I and Painting I or instructor approval
This course will expand on techniques studied in Painting I. Media to be used includes watercolor, acrylics, and tempera. Surfaces such as paper, canvas board, Masonite, and canvas cloth will be prepared for painting. A more in depth study of historical approaches to painting will lead to traditional and innovative techniques in class.

PHOTOGRAPHY I
Course#: G60700_5  Credit: 0.5  Grade Level: 9,10,11,12
This class explores a wide variety of digital photography techniques. In a hands-on environment, students will learn to create strong photographic compositions and understand how and why a digital SLR camera works. There is a strong emphasis on utilizing the elements and principles of design throughout the creation process. Students will research, keep a portfolio, have class critiques, individual critiques, and artistic dialogues that will inspire them as they create. Students will have the opportunity to print or publish their work, exhibit their work within the community and develop the fine craft of art photography in an interactive, hands-on learning environment.

PHOTOGRAPHY II
Course#: G63600_5  Credit: 0.5  Grade Level: 9,10,11,12
Prerequisite:  Photography I or instructor approval
This class is designed for students who have successfully completed Photography I, can demonstrate advanced photographic techniques and who are seriously interested in the practical experience of art photography. At the end of the term, students will submit a portfolio for review. In building the portfolio, students experience a variety of concepts, techniques, and approaches designed to help them demonstrate their abilities as well as their versatility with techniques, problem solving, and ideation. The portfolio is also partially developed within a concentration that investigates an idea of personal interest for each individual student. Students will be introduced to new photographers, artists, digital artists and more sophisticated techniques as points of departure to create work that reflects that individual student's spirit and vision. Students may be required to visit off-campus sites to complete photography assignments.

PHOTOGRAPHY III
Course#: G63700_5  Credit: 0.5  Grade Level: 10,11,12
Prerequisite:  Photography II or instructor approval
This class is designed for students who have successfully completed Photography I and 2, can demonstrate advanced photographic techniques and who are seriously interested in the practical experience of art photography. At the end of the term, students will submit a portfolio for review. In building the portfolio, students experience a variety of concepts, techniques, and approaches designed to help them demonstrate their abilities as well as their versatility with techniques, problem solving, and ideation. The portfolio is also partially developed within a concentration that investigates an idea of personal interest for each individual student. Students will be introduced to new photographers, artists, digital artists and more sophisticated techniques as points of departure to create work that reflects that individual student's spirit and vision. Students may be required to visit off-campus sites to complete photography assignments.

SCULPTURE I
Course#: G64300_5  Credit: 0.5  Grade Level: 9,10,11,12
In this course students will make sculpture by additive (built) and subtractive (carved) process. A variety of media such as cardboard, clay, stone, found objects will be used. Historical and contemporary sculptors and sculpture will be reviewed. Quality craftsmanship and presentation of work will be stressed along with creative involvement with the assignments.

SCULPTURE II
Course#: G64310_5  Credit: 0.5  Grade Level: 9,10,11,12
Prerequisite:  Sculpture I or instructor approval
In this course, students will build on the skills learned in Sculpture I. Students will continue to explore and create art through the various media and process introduced in Sculpture I.

STUDIO ART (ADVANCED PLACEMENT) DRAWING
Course#: G64710_1  Credit: 1  Grade Level: 11,12
Prerequisite:  Drawing in 9th grade or beyond, successful completion of required summer artwork prior to beginning of school or a portfolio of required drawings.

The Drawing Portfolio is intended to address a very broad interpretation of drawing issues and media. Line quality, light and shade, rendering of form, composition, surface manipulation, the illusion of depth and mark-making are drawing issues that can be addressed through a variety of means, which could include painting, printmaking, mixed media, etc. Abstract and observational works may demonstrate drawing competence. The range of marks used to make drawings, the arrangement of those marks, and the materials used to make the marks are endless. There is no preferred (or unacceptable) style or content. Any work submitted in the Drawing Portfolio that incorporates digital or photographic processes must address issues such as those listed above. Using computer programs merely to manipulate photographs through filters, adjustments or special effects is not appropriate for the Drawing Portfolio.
STUDIO ART (ADVANCED PLACEMENT) 2-D DESIGN
Course#: G64720_1 Credit: 1 Grade Level: 11,12
Prerequisite: Drawing in 9th grade or beyond, successful completion of required summer artwork prior to beginning of school or a portfolio of required drawings.

The 2-D Design Portfolio is intended to address two-dimensional (2-D) design issues. Design involves purposeful decision making about how to use the elements and principles of art in an integrative way. The principles of design (unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, figure/ground relationships) can be articulated through the visual elements (line, shape, color, value, texture, space). They help guide artists in making decisions about how to organize an image on a picture plane in order to communicate content. Effective design is possible whether one uses representational or abstract approaches to art. For this portfolio, students are asked to demonstrate mastery of 2-D design through any two-dimensional medium or process, including, but not limited to, graphic design, digital imaging, photography, collage, fabric design, weaving, fashion design, fashion illustration, painting and printmaking. Video clips, DVDs, CDs and three-dimensional works may not be submitted. However, still images from videos or films are accepted.

STUDIO ART (ADVANCED PLACEMENT) 3-D DESIGN
Course#: G64730_1 Credit: 1 Grade Level: 11,12
Prerequisite: Drawing in 9th grade or beyond, successful completion of required summer artwork prior to beginning of school or a portfolio of required drawings.

The 3-D Design Portfolio is intended to address sculptural issues. Design involves purposeful decision making about using the elements and principles of art in an integrative way. In the 3-D Design Portfolio, students are asked to demonstrate their understanding of design principles as they relate to the integration of depth and space, volume and surface. The principles of design (unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, and occupied/unoccupied space) can be articulated through the visual elements (mass, volume, color/light, form, plane, line, texture). For this portfolio, students are asked to demonstrate mastery of 3-D design through any three-dimensional approach, including, but not limited to, figurative or nonfigurative sculpture, architectural models, metal work, ceramics, glass work, installation, assemblage and 3-D fabric/fiber arts. There is no preferred (or unacceptable) style or content.

STUDIO ART (ADVANCED PLACEMENT) PHOTOGRAPHY
Course#: G64740_1 Credit: 1 Grade Level: 11,12
Prerequisite: Photography I and II classes in 9th grade or beyond, successful completion of required summer artwork prior to beginning of school, or a portfolio of required photographic works approved by instructor.

The Photography Portfolio is intended to address two-dimensional (2-D) design issues using photography as the artistic medium. There are three parts that comprise the final portfolio: quality; concentration; and breadth. Students will learn how to strengthen their photographic skills and will work on creating their own personal body of work. This work will demonstrate personal artistic growth. Students will write and revise a personal artist's statement to help focus artistic goals and to meet AP College Board portfolio submission requirements. The principles of design (unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, figure/ground relationships), as well as the elements of design (line, shape, color, value, texture, space), will be studied and incorporated into individual works. This knowledge and history will help students to make creative choices about how to organize the elements on a photographic plane in order to communicate concepts, visions, and personal expression. Each assignment will help students to work towards creating their personal portfolio.

CONCERT BAND
Course#: G65800_1 Credit: 1 Grade Level: 9,10,11,12
Prerequisite: Enrollment in this class is based on audition and is a year-long commitment.

This class is primarily for students who are developing musical skills. The emphasis of the class will be on the application of basic skills involved to play, read and understand the many facets of instrumental music necessary for successful participation in the TCAPS band program and MSBOA events. High school members of the Concert Band are required to participate in the Marching Band. Attendance at out-of-school practices and performances is required.

JAZZ BAND
Course#: G69100_1 Credit: 1 Grade Level: 9,10,11,12
Prerequisite: Enrollment in this class is based on audition and is a year-long commitment.

This course is offered as an every other day class, meeting five times over a period of two weeks. The emphasis of the class will be on establishing and developing skills involved to play, read, and understand the many facets of instrumental jazz music. Special emphasis will be placed on improvisation skills, jazz theory, style, and history of jazz. Attendance at out-of-school practices and performances is required.

SYMPHONY BAND
Course#: G66600_1 Credit: 1 Grade Level: 9,10,11,12
Prerequisite: Enrollment in this class is based on audition and is a year-long commitment.

This class is for students with advanced musical skills. The emphasis of the class will be on developing and reinforcing advanced skills involved to play, read, and understand the many facets of instrumental music necessary for successful participation in the TCAPS band program and MSBOA events. Attendance at out-of-school practices and performances is required. High school members of the Symphony Band are required to participate in the Marching Band.

WIND ENSEMBLE
Course#: G66000_1 Credit: 1 Grade Level: 9,10,11,12
Prerequisite: Enrollment in this class is based on audition and is a year-long commitment.

This class is for students with very advanced musical skills. The emphasis of the class will be on developing and reinforcing advanced skills involved to play, read, and understand the many facets of instrumental music necessary for successful participation in the TCAPS band program and MSBOA events. Attendance at out-of-school practices and performances is required. High school members of the Wind Ensemble are required to participate in the Marching Band.

MUSIC THEORY
Course#: G69000_0 Credit: 0.5 Grade Level: 10, 11,12

Music Theory is a non-performance class designed for those students who are considering a music major on the college level, or who have a serious interest in learning more about the technical and theoretical aspects of music. The course will deal with rhythmic, harmonic, and melodic skills necessary for success in either a performing group, or in continued study of music.
PHILHARMONIC ORCHESTRA

Course#: G65900_1  Credit: 1  Grade Level: 11,12
Prerequisite: Enrollment in this class is based on audition and is a year-long commitment.

Phiharmonic strings is designed for students with very advanced performance, theory, ensemble, and musical skills. Performances include holiday programs, district and state band and orchestra festivals, district solo and ensemble festivals, spring concerts and community outreach. Attendance at out-of-school practices and performances is required.

SYMPHONY ORCHESTRA

Course#: G66700_1  Credit: 1  Grade Level: 9,10,11,12
Prerequisite: Enrollment in this class is based on audition and is a year-long commitment.

Emphasis will be placed on developing musical maturity and expression, left-hand facility through 5th position and advancing bow techniques. Performances include holiday programs, district and state board and orchestra festivals, district solo and ensemble festivals, and spring concerts. Attendance at out-of-school practices and performances is required.

BEL CANTO

Course#: G69700_1  Credit: 1  Grade Level: 9,10,11,12
Prerequisite: Choose the course YOU ARE CURRENTLY ENROLLED IN. Course requires try-out and placement from Band/Orchestra/Vocal instructors. Placements and adjustments will be made when the try-out lists are posted.

This auditioned ensemble is designed for the singer who has demonstrated advanced vocal technique, theory, ensemble and musical skills. Singers in this choir must have vocal ranges that fall within the categories of soprano, mezzo-soprano, and/or alto. Attendance at out-of-school practices and performances is required.

CHORAL-AIRES

Course#: G69600_1  Credit: 1  Grade Level: 9,10,11,12
Prerequisite: Enrollment in this class is based on audition.

This class is designed for students with advanced vocal technique, theory, ensemble and musical skills with many performance opportunities scheduled throughout the year. Additional large ensemble membership is strongly encouraged. Attendance at out-of-school practices and performances is required.

CHORALE

Course#: G69500_1  Credit: 1  Grade Level: 9,10,11,12
Prerequisite: Enrollment in this class is based on audition.

Chorale is an advanced choir, demonstrating advanced vocal technique, theory, ensemble, and musical skills with many performance opportunities scheduled throughout the year. Attendance at out-of-school practices and performances is required.

CON BRIO

Course#: G66300_1  Credit: 1  Grade Level: 9,10,11,12
Prerequisite: Choose the course YOU ARE CURRENTLY ENROLLED IN. Course requires try-out and placement from Band/Orchestra/Vocal instructors. Placements and adjustments will be made when the try-out lists are posted.

The emphasis of the class will be on advancing skills involving vocal techniques, reading music and understanding the many facets of vocal music necessary for successful participation in the TCAPS choir program. Students in this choir must have vocal ranges that fall within the categories of tenor, baritone and/or bass. This course is designed for but not limited to first and second year students at the high school level. Attendance at out of school practices and performances is required.

CANTATE

Course#: G66500_1  Credit: 1  Grade Level: 9,10,11,12
Prerequisite: Choose the course YOU ARE CURRENTLY ENROLLED IN. Course requires try-out and placement from Band/Orchestra/Vocal instructors. Placements and adjustments will be made when the try-out lists are posted.

The emphasis of the class will be on advancing skills involving vocal techniques, reading music and understanding the many facets of vocal music necessary for successful participation in the TCAPS choir program. Students in this choir must have vocal ranges that fall within the categories of soprano, mezzo-soprano and/or alto. This course is designed for but not limited to first and second year students at the high school level. Attendance at out of school practices and performances is required.

WORLD LANGUAGE

FRENCH I

Course#: G40200_1  Credit: 1  Grade Level: 9,10,11,12

French I is a fast-paced, challenging course that stresses listening, speaking, reading, and writing skills. Students learn how to communicate in the new language in various real life situations such as school, travel, friends, family, sports, and leisure activities. Students also study the cultural aspects such as food, holidays, music, and the arts of various French-speaking countries. All students will have the opportunity to earn high school credit by meeting the state achievement standard.

FRENCH II

Course#: G43800_1  Credit: 1  Grade Level: 10,11,12

Prerequisite: French I successfully completed

French II is a continuation of French I, with increased emphasis on reading and writing, and continued practice in the oral use of the language. Cultural material is integrated into the learning process so students acquire a greater awareness of the French-speaking world.

FRENCH III

Course#: G43900_1  Credit: 1  Grade Level: 11,12

Prerequisite: French II successfully completed

This course expands growth in language ability and cultural understanding. This is accomplished through vocabulary and grammatical expansion and development. This class will be presented primarily in the target language and students are expected to participate in the target language during class time.

FRENCH IV

Course#: G44000_1  Credit: 1  Grade Level: 11,12

Prerequisite: French III successfully completed

This course is designed to develop effective communication skills, emphasizing listening comprehension and speaking in situational contexts. Units will be built around aspects of French and francophone cultures, exploring history, literature, art, music and other aspects of Francophone culture. This class is presented in French and students are expected to participate in French during class time.

FRENCH V

Course#: G44200_1  Credit: 1  Grade Level: 12

Prerequisite: French IV successfully completed

This level five course is a communication-based course for students who have successfully completed level four. Students will continue to build the reading, writing, listening and speaking skills that they developed in level four. This class will be conducted primarily in the target language and students will be expected to participate in the target language.
GERMAN I
Course#: G40500_1  Credit: 1  Grade Level: 9,10,11,12
German I is a fast-paced course which stresses language acquisition through Total Proficiency through Reading and Storytelling (TPRS). Students will learn to communicate in German in various real life situations: school, travel, friends, family, sports, and leisure activities. Students will also study cultural aspects of various German-speaking countries such as food, holidays, and music. All students will have the opportunity to earn high school credit by meeting the state achievement standard.

GERMAN II
Course#: G44100_1  Credit: 1  Grade Level: 10,11,12
Prerequisite: German I successfully completed
German II is a continuation of German I, with increased emphasis on speaking and reading in order to further develop fluency through Total Proficiency through Reading and Storytelling (TPRS). Cultural material is integrated into the learning process so students acquire a greater awareness of the German-speaking world.

GERMAN III
Course#: G44200_1  Credit: 1  Grade Level: 10,11,12
Prerequisite: German II successfully completed
This is a course organized to assist students to grow in language ability and cultural understanding. This is accomplished through vocabulary expansion and development in useful conversations and a comprehensive review of grammatical concepts. This class combines language and culture for students who have studied the basic concepts of German.

GERMAN IV
Course#: G44300_1  Credit: 1  Grade Level: 10,11,12
Prerequisite: German III successfully completed
This course is designed to develop effective communication skills, emphasizing listening comprehension and speaking in situational contexts. Units will be built around aspects of Germanic cultures, including units on: phonetics, Germanic cuisine, cinema, music, art and customs. Reading and writing may be done as reinforcement to oral communication skills.

GERMAN V
Course#: G43000_1  Credit: 1  Grade Level: 11,12
Prerequisite: German IV successfully completed
This level five course is a communication-based course for students who have successfully completed level four. Students will continue to build the reading, writing, listening and speaking skills that they developed in level four. This class will be conducted primarily in the target language and students will be expected to participate in the target language.

SPANISH I
Course#: G40800_1  Credit: 1  Grade Level: 9,10,11,12
Spanish I is a class that emphasizes listening, speaking, reading, and writing skills. Students learn how to communicate in various real-life situations, and also study cultural aspects of Spanish-speaking countries. This class is presented in Spanish and English, and students are expected to participate in Spanish during class time. All students will have the opportunity to earn high school credit by meeting the state achievement standard.

SPANISH II
Course#: G44400_1  Credit: 1  Grade Level: 10,11,12
Prerequisite: Spanish I successfully completed
Spanish II is a continuation of Spanish I with increased emphasis on reading and writing, and on-going practice in the spoken language. Cultural materials are integrated into the learning process so students acquire a greater awareness of the Spanish-speaking world. This class is presented in Spanish and English, and students are expected to participate in Spanish during class time.

SPANISH III
Course#: G44500_1  Credit: 1  Grade Level: 10,11,12
Prerequisite: Spanish II successfully completed
Spanish III is a continuation of Spanish II and increases language use and cultural understanding. This is accomplished through vocabulary expansion, conversations, and comprehensive review of grammatical concepts. This class is presented in Spanish and students are expected to participate in Spanish during class time.

SPANISH IV
Course#: G44600_1  Credit: 1  Grade Level: 10,11,12
Prerequisite: Spanish III successfully completed
Spanish IV is a continuation of Spanish III and further develops the language skills of listening, speaking, reading, and writing. Students explore art, literature, music, and other aspects of Hispanic culture. This class is presented in Spanish and students are expected to participate in Spanish during class time.

SPANISH V
Course#: G42000_1  Credit: 1  Grade Level: 11,12
Prerequisite: Spanish IV successfully completed
This level five course is a communication-based course for students who have successfully completed level four. Students will continue to build the reading, writing, listening and speaking skills that they developed in level four. This class will be conducted primarily in the target language and students will be expected to participate in the target language.

AMERICAN SIGN LANGUAGE I
Course#: G41000_1  Credit: 1  Grade Level: 9,10,11,12
American Sign Language (ASL) I introduces students to the language and culture of Deaf people in the United States and most of Canada. This course will focus on building vocabulary and dialogue structures needed for introductory conversation about purposeful topics, the use of non-manual grammatical markers such as facial expression, use of fingerspelling and numbers, and an introduction to the rich history and culture of the Deaf Community. Students will participate in interactive classroom activities using a “voices off” policy to ensure ASL immersion. ASL courses meet Michigan World Language credit requirements.

AMERICAN SIGN LANGUAGE II
Course#: G41500_1  Credit: 1  Grade Level: 10,11,12
Prerequisite: Successful completion of American Sign Language I
American Sign Language (ASL) II furthers student knowledge and experience of the language and culture of Deaf people in the United States and much of Canada. The introduction of additional vocabulary and grammar structures furthers students’ ability to communicate meaningfully with ASL users. Students will develop greater insight into the Deaf culture through the context of ASL literature, and current topics relevant to the Deaf Community are explored. “Voice off” policy is used for more extended periods of time. While developing communication skills, students will simultaneously mature in their understanding of the deaf experience. ASL courses meet Michigan World Language credit requirements.

AMERICAN SIGN LANGUAGE III
Course#: G42100_1  Credit: 1  Grade Level: 11,12
Prerequisite: Successful completion of American Sign Language II
This course builds on skills learned in American Sign Language (ASL) I and II, adding more complex ASL grammatical features and vocabulary, short stories, narratives, and dialogues. The course will include a description of general surroundings, appropriate sequencing, temporal aspects, and conditionals. Information about the Deaf Community and Deaf Culture will be included.
CAREER-TECH CENTER CURRICULUM OFFERINGS

Prerequisite: These are TBA Career-Tech Center courses. Students will spend 1/2 day at CTC with these course selections (AM for CSH and PM for WSH). Students should choose an alternate CTC course as these courses fill up quickly and preference is given to seniors. The alternate course MAY NOT be Welding, Automotive Tech, Auto Body, or Culinary Arts. Programs with * indicate Early College Pathway available.

FILM AND NEW MEDIA
Course#: R77600_1 Credit: 3 Grade Level: 11,12
Do you want to get your foot in the door in the film and new media industry? Film and New Media offers the opportunity to:
• creatively use the latest video and audio editing equipment.
• work with video, film, and audio professionals.
• earn academic and college credit.

GRAPHIC ARTS
Course#: R78500_1 Credit: 3 Grade Level: 11,12
Are you artistic and creative? Graphic Arts offers the opportunity to:
• develop and produce work for real clients in the community.
• complete projects in design, video, animation, and print.
• build a portfolio and earn academic and college credit.

GRAPHIC DESIGN & PROMOTIONAL MEDIA*
Course#: R78510_1 Credit: 3 Grade Level: 11,12
Do you want to put your creativity to work in the design business? Graphic Design & Promotional Media* offers the opportunity to see that design is all around you: from colorful billboards, and informational websites, to packages in your grocery store, or the logo on your favorite t-shirt; see how design is created by working in a studio setting on real design; earn academic and college credit.

BUSINESS CAREERS*
Course#: R79900_1 Credit: 3 Grade Level: 11,12
Do you want to run a business? Business Careers* offers the opportunity to:
• participate in an entrepreneurship program.
• learn standard accounting and office practices.
• earn academic and college credit.

CULINARY ARTS
Course#: R79100_1 Credit: 3 Grade Level: 11,12
Do you see yourself in the restaurant business? Culinary Arts offers the opportunity to:
• experiment with recipes and cook creatively with food.
• learn all aspects of running a restaurant from developing the menu to serving dessert.
• earn industry certification, academic and college credit.

INFORMATION TECHNOLOGY*
Course#: R78300_1 Credit: 3 Grade Level: 11,12
Do you want to become a computer wizard? Information Technology Academy* offers the opportunity to:
• learn computer networking and repair.
• operate and maintain the classroom local area network (LAN).
• earn industry certification, academic and college credit.

WEB AND GAME PROGRAMMING
Course#: R78200_1 Credit: 3 Grade Level: 11,12
Do you want to develop websites and create computer games? Web and Game Programming offers the opportunity to:
• build websites from scratch.
• learn the basics of game programming.
• earn academic and college credit.

MECHANTRONICS: APPLIED TECH TRAINING
Course#: R78110_1 Credit: 3 Grade Level: 11,12
Do you like to use engineering to solve problems? Mechatronics applies electrical and mechanical engineering skills to identify, analyze, and solve systems-based problems. In Mechatronics students will learn to troubleshoot and test electromechanical equipment, conduct repairs, modify as needed, and monitor operation to ensure systems are functioning properly. In addition, students will explore many electromechanical concepts including system design, operation and control, diagnostics, pneumatics, robotics, drones, sensors, blueprint and schematic interpretation, and many other Mechatronics engineering fundamentals.

AUTO BODY REPAIR
Course#: R79600_1 Credit: 3 Grade Level: 11,12
Do you want to paint and repair cars? Auto Body Repair offers the opportunity to: use high tech equipment, work on actual customer vehicles, and earn academic credit and the state of Michigan auto body repair certification.

AUTOMOTIVE TECHNOLOGY
Course#: R79400_1 Credit: 3 Grade Level: 11,12
Are cars your passion? Automotive Technology offers the opportunity to:
• troubleshoot problems and service automobiles.
• work with mentors in local repair facilities.
• become a certified technician and earn academic and college credit.

CONSTRUCTION TRADES
Course#: R79200_1 Credit: 3 Grade Level: 11,12
Do you want to learn to build houses? Construction Trades offers the opportunity to:
• use power tools and work with building materials.
• learn carpentry, masonry, drywall, and roofing.
• earn academic and college credit.

CTC/FSU DRAFTING AND DESIGN TECHNOLOGY ONLINE*
Course#: R77400_1 Credit: 3 Grade Level: 11,12
Are you interested in becoming an architect or engineer? CTC/FSU Drafting & Design Technology Online* offers the opportunity to:
• use the latest software to understand engineering graphics and architectural design.
• create 3-D models.
• earn college credit (up to five FSU credits).
ELECTRICAL OCCUPATIONS
Course#: R78600_1 Credit: 3 Grade Level: 11,12
Are you interested in electricity? Electrical Occupations offers the opportunity to:
• work with electricians on projects in the field.
• learn commercial, industrial, and residential wiring.
• earn academic and college credit.

MANUFACTURING TECHNOLOGY ACADEMY*
Course#: R78000_1 Credit: 4 Grade Level: 11,12
Prerequisite: Students who choose MTA would have to provide their own transportation to the MTA center as they start at 7:30 a.m. This course runs from 7:30 a.m. until 11:30 a.m. each day.
Are you interested in engineering, manufacturing, and robotics? Manufacturing Technology Academy* offers the opportunity to:
• work in teams to design, build, and compete with robots.
• partner with mentors to solve industry-related problems.
• earn academic and college credit.
• This is a TBAISD program housed at the Parsons-Stulen building.

POWER EQUIPMENT TECHNOLOGY
Course#: R77800_1 Credit: 3 Grade Level: 11,12
Are you interested in two-stroke and four-stroke engines? Power Equipment Technology offers the opportunity to:
• work with boats, ATVs, and lawn and garden equipment.
• complete repairs on golf course machinery.
• earn industry certification, academic and college credit.

PRECISION MACHINING TECHNOLOGY*
Course#: R78100_1 Credit: 3 Grade Level: 11,12
Do you want to learn how to use a lathe, mill, or CNC machine? Precision Machining Technology* offers the opportunity to:
• build a personal set of tools.
• participate in a paid internship at an area business.
• earn industry certification, academic and college credit.
• This is a TBAISD program housed at the Parsons-Stulen building.

WELDING & FABRICATION*
Course#: R77500_1 Credit: 3 Grade Level: 11,12
Do you want to learn how to weld? Welding & Fabrication* offers the opportunity to:
• use and wear the tools and equipment of the trade.
• work with metals on welding and fabrication projects.
• take the welder qualification tests and earn academic and college credit.

EARLY CHILDHOOD EDUCATION
Course#: R78900_1 Credit: 3 Grade Level: 11,12
Do you enjoy working with children? Early Childhood Education offers the opportunity to:
• learn about child-related careers through work experiences, job shadows and field trips.
• create child-centered activities, lesson plans and environments for children.
• earn academic and college credit.

PUBLIC SAFETY/PROTECTIVE SERVICES
Course#: R77200_1 Credit: 3 Grade Level: 11,12
Do you want to protect and serve your community? Public Safety/Protective Services offers the opportunity to:
• use state-of-the-art equipment and technology.
• work with professionals in emergency services, firefighting, and law enforcement.
• earn CERT, EMT, Firefighter, MFR certifications and academic credit.

TEACHER ACADEMY*
Course#: R77700_1 Credit: 3 Grade Level: 11,12
Prerequisite: This course places the student in a classroom one hour a day assisting and instructing students - often in local elementary buildings.
Have you always dreamed of being a teacher? Teacher Academy* offers the opportunity to:
• work with a variety of students and teachers at different grade levels.
• develop actual lessons and activities.
• gain teaching experience and earn academic and college credit.

AGRICIENCE / NATURAL RESOURCES*
Course#: R78400_1 Credit: 3 Grade Level: 11,12
Do you like working with plants and animals? Agriscience/Natural Resources* offers the opportunity to:
• grow ornamental and food plants in the greenhouse.
• learn greenhouse production and sell produce in the student-run farmer’s market.
• earn floral or nursery certification, academic and college credit.

FRONT STREET WRITERS*
Course#: R79700_1 Credit: 3 Grade Level: 11,12
Have you always wanted to be a writer? Do you love to write? Front Street Writers* offers the opportunity to:
• learn from and with professional writers.
• submit your work for publication.
• develop a portfolio through workshop sessions.
• explore all the ways you can make a living as a writer.

ALLIED HEALTH
Course#: R77901_4 Credit: 3 Grade Level: 11,12
Gain the knowledge and skills required for employment in one of the hottest job markets in our region. Coursework includes anatomy and physiology, medical terminology, health maintenance, safety, CPR and first aid certification, and advanced patient-care skills. Gain valuable experience through hands-on clinical learning in the hospital, long-term care facilities, or through doctor’s offices.
<table>
<thead>
<tr>
<th>Ninth Grade</th>
<th>Tenth Grade</th>
<th>Eleventh Grade</th>
<th>Twelfth Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Language Arts</strong>&lt;br&gt;(4 Total Credits)</td>
<td>English Language Arts-9</td>
<td>English Language Arts-10</td>
<td>English Language Arts-11 or AP Lang. &amp; Comp. or AP Lit. &amp; Comp. Front Street Writers</td>
</tr>
<tr>
<td><strong>Social Studies</strong>&lt;br&gt;(3 Total Credits)</td>
<td>United States History &amp; Geography</td>
<td>World History &amp; Geography or AP World History</td>
<td>11th and/or 12th Grade Civics and Economics</td>
</tr>
<tr>
<td><strong>Mathematics</strong>&lt;br&gt;(4 Total Credits)</td>
<td>Algebra I</td>
<td>Geometry</td>
<td>Algebra II</td>
</tr>
<tr>
<td><strong>Science</strong>&lt;br&gt;(3 Total Credits)</td>
<td>Biology</td>
<td>Chemistry or Physics</td>
<td>One Additional Credit of Science is REQUIRED 11th-12th Grade</td>
</tr>
<tr>
<td><strong>Health &amp; Phys. Ed.</strong>&lt;br&gt;(1 Total Credit)</td>
<td>HPE I or Working on Wellness (highly recommended for 9th grade)</td>
<td>One-half (.5) credit is required in Health and one-half (.5) credit is required in Physical Education for a total of one (1.0) Credit of HPE REQUIRED 9th-12th Grade</td>
<td></td>
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<tr>
<td><strong>World Language</strong>&lt;br&gt;(2 Total Credits)</td>
<td></td>
<td>2.0 credits of a World Language is REQUIRED 9th-12th grade OR an equivalent learning experience in grades K-12.</td>
<td></td>
</tr>
<tr>
<td><strong>VPAA</strong>&lt;br&gt;(1 Total Credit)</td>
<td></td>
<td></td>
<td>One credit of Visual, Performing and Applied Arts (VPAA) is REQUIRED 9th-12th Grade</td>
</tr>
<tr>
<td><strong>Online Learning</strong>&lt;br&gt;(Currently TCAPS integrates online learning with the English Language Arts courses to satisfy this requirement.)</td>
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<tr>
<td><strong>Electives</strong></td>
<td></td>
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<tr>
<td><strong>Total Credits</strong></td>
<td>6 Credits</td>
<td>6 Credits</td>
<td>6 Credits</td>
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</tbody>
</table>
TCAPS Four Year Course Planner
Carefully review applicable graduation requirements for your class.

<table>
<thead>
<tr>
<th></th>
<th>Ninth Grade 2 Semesters</th>
<th>Tenth Grade 2 Semesters</th>
<th>Eleventh Grade 2 Semesters</th>
<th>Twelfth Grade 2 Semesters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language Arts</td>
<td>(4 Total Credits)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Studies</td>
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</tbody>
</table>
Enrollment Reminders

- Please read ALL of the curriculum guide before choosing courses.
- Complete the Course Selection Sheet using a pencil and print.
- You MUST have a parent signature.
- You MUST select at least six credits for the entire year.
- Check your graduation requirements and review your transcript to double check your progress towards total credits and subject area requirements.
- When listing a full year course on your course selection sheet, list the course in both semesters.

Note for Aspiring College Athletes:

Student-athletes who are interested in eventually participating in college athletics at the Division I or II levels should inform their counselors of this aspiration as soon as possible. There are minimum SAT or ACT scoring requirements, along with GPA requirements to be aware of. There are also a few courses at our school that are not approved as core courses by the NCAA and may impact athletic eligibility at the college level. The courses that are not approved as core courses by the NCAA are Broadcast Communications, Personal Economics and Finance (not approved when used as a math credit), Student Senate, Accounting (I, II, and III), and Math College Placement Prep.

<table>
<thead>
<tr>
<th>TCAPS High School Counseling Departments</th>
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</thead>
<tbody>
<tr>
<td><strong>West Senior High School</strong></td>
</tr>
<tr>
<td>Counseling Center</td>
</tr>
<tr>
<td>(231) 933-7700</td>
</tr>
<tr>
<td>Tom Ford</td>
</tr>
<tr>
<td>Jennifer Jandreski</td>
</tr>
<tr>
<td>Melissa Kamm</td>
</tr>
<tr>
<td>Blaise Lowe</td>
</tr>
<tr>
<td>Lauran Pinto</td>
</tr>
<tr>
<td>Ashley VanLandschoot</td>
</tr>
</tbody>
</table>