Tech High School
Registration Book
2017 - 2018
Class of 2018
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GENERAL PLANNING CONSIDERATIONS

REGISTRATION

Technical High School considers the selection of courses one of the most important steps in a student’s long and short-range planning process. To support this we put a great deal of time and effort into giving students accurate information to make wise decisions. We are hopeful that parents will be involved in the registration process. Questions regarding registration should be directed to the Guidance Office at 252-2231, ext. 3013.

In order for new students to register at Tech, they must be accompanied by a parent or guardian. If you are a new student wanting to enroll at Tech High School, we require records from your previous school before you will be allowed to register. In addition, those students who are emancipated minors (under 21 and not living at home) must present a notarized letter from a parent or guardian naming a responsible custodian and a letter from the named custodian accepting responsibility for the student. All new students must register at our District 742 Welcome Center. Please call (320) 202-6897 for more information.

PLANNING FOR AFTER HIGH SCHOOL

It is important for students to consider their long-range goals when choosing classes in high school. Students are encouraged to consider how their current courses will affect their future goals of school, military, or work.
Four Year College or University
The following curriculum is required for students who wish to attend a Minnesota State University. The pattern of courses being required for admission to a Minnesota State University is generally consistent with the requirements of the University of Minnesota, the University of Wisconsin system, and North Dakota State University Systems as well as many other post secondary institutions across the country. Students planning to attend a four-year private college or a college outside this geographic area should research each college’s specific requirements. The recommended college preparatory curriculum for grades 9-12 is as follows:
· 4 years of English
· 3 years of Math (Algebra I, Geometry & Algebra II) – U of M requires 4 years (Algebra 1 is not NCAA approved)
· 3 years of Science
· 3 years of Social Studies
· 3 years of Specified Electives (chosen from at least 2 of the following: World Language, World Cultures, and the Arts.)

Students should be aware that some of these requirements may be completed as college freshman.

Technical College
There is no specified curriculum for entrance into technical schools in Minnesota. Students should have taken high school courses in the area they plan to enroll. Adequate support courses such as math, science, and computers should be taken. Students may also explore enrollment in the Post Secondary Options program (see Special Programs). Tech Prep courses may be taken to provide a student with a head start on technical college credits. Tech Prep courses are listed in italics in this book.

Military
Students interested in attending a military academy or the Reserve Officer Training Corps (ROTC) should take a college preparatory curriculum with an emphasis in math and science. Enlistees in the military need to have a high school diploma.

REGISTRATION CONSIDERATIONS
Prerequisites
Students should select classes paying attention to prerequisites. Exceptions to these requirements will be dealt with on a case-by-case basis by each department.

Leveled Classes
Tech High School has leveled classes to best meet students differing academic needs. The Leveled classes offer adjusted subject content, materials for instruction, and teaching methods.
The following factors are used when students register for leveled classes.
1. Teacher recommendation.
2. Past performance and achievement.
3. Test results.
Students may move from one level to another when appropriate.
Students, parent(s), teachers, or counselors may request a change.

SATISFACTORY/UNSATISFACTORY CLASS OFFERING

Tech offers a satisfactory/unsatisfactory grade option. The following restrictions apply for this grading option:

- S/U will be an option for use in electives only. (3 art credits must be taken for letter grade)
- Students may take S/U for one class each trimester.
- Each department will determine which courses are available for S/U.
- Students will be expected to maintain standards established by the teacher in order to earn a “satisfactory” grade.
- The student and parent must sign a form, available from the teacher, showing the student’s intent to take the course S/U. This form must be completed and returned to the teacher within the first five days of the trimester. The student is then committed to taking the course S/U. (See below for the list of courses offered S/U for this school year.)

### ART
(Only when taken as an elective)
- Art Fundamentals A
- Art Fundamentals B
- 2D Art I
- 3D Art I

### BUSINESS
- Accounting
- Digital Literacy/Computer Applications
- General Business
- Keyboarding
- Personal Finance

### COMPUTERS
- Programming I
- Programming II

### COOPERATIVE EDUCATION
- Business & Office/Work Site
- Work Experience (11)

### FAMILY AND CONSUMER SCIENCE
- Child Development
- Foods I
- Foods II

### LANGUAGE ARTS
(Only when taken as an elective)
- AP English Language

### MATHEMATICS
(Only when taken as an elective)
- Statistics

### MUSIC
(Only when taken as an elective)
- AP Music Theory
- Choir 9
- Concert Band
- Concert Choir
- Mixed Chorus
- Concert Orchestra
- Symphony Orchestra
- Treble Chorus
- Varsity Band
- Wind Ensemble
- History of Rock and Roll
- Intro to World Music

### PHYS ED/HEALTH
(Only when taken as an elective)
- Competitive Team and Dual Sports
- Outdoor Adventures & Activities
- Strength Training and Conditioning
- Advance Strength Training and Conditioning I & II

### SCIENCE
- Environmental Science

### SOCIAL STUDIES
- None

### TECHNOLOGY EDUCATION
- Automotive
- Building Trades
- Communication Technology
- Electricity/Robotics
- Power and Energy
- Welding
- Woodworking

### WORLD LANGUAGE
- ASL III/IV
- French III/IV
- German III/IV
- Spanish III/IV

### SPECIAL PROGRAMS
- Activities Aide
- All Student Instructors
- Guidance Office Aide
- Media Assistant
- Student Affairs Office Aide
SPECIAL PROGRAMS

Advanced Placement Program

Grades 9-12

The Advanced Placement Program (AP) is a cooperative agreement between high schools, colleges, and universities. It gives Tech students exposure to college-level material and gives them an opportunity to show what they have learned by taking an AP exam in May. If students pass the exam, colleges and universities are then able to grant credit, placement or both. Students are allowed the opportunity to study subjects they are interested in and to challenge themselves with students who are similarly motivated. AP prepares students by giving them tools that will serve them well throughout their college careers. To determine a college’s AP credit policy, please visit: www.collegeboard.org/apcreditpolicy. We currently offer the following AP courses:

- AP American Government (2 exams)
- AP Calculus AB
- AP Music Theory
- AP Calculus BC
- AP Chemistry
- AP Computer Science
- AP Computer Science Principles
- AP Economics (2 exams)
- AP Geography
- AP World History
- AP Physics (up to 4 exams)
- AP Psychology
- AP Spanish
- AP Statistics
- AP Studio Art; 2D Design, 2D Drawing, and 3D
- AP Biology
- AP English Literature and Composition
- AP Language and Composition
- AP US History

Articulated Credit

Articulated credit originated between local area schools and the St. Cloud Technical College. Students who earn a certificate from the specified high school courses may also earn corresponding college credit at participating technical colleges. Other institutions may also honor these credits at their discretion. There is no additional cost to enroll in a class that offers an articulated credit option. For further information on this program visit the following website: http://CTECreditMN.com. Student data information is collected only for the purpose of issuing Articulated College Credit Certificates and to help measure program effectiveness.

Articulated college credit courses are as follows:

- Aerospace Engineering
- Introduction to Engineering Design
- Accounting
- Advanced Welding II
- Building Trades
- Civil Engineering and Architecture
- Computer Applications
- Health Careers Internship
- Introduction to Woods
- Keyboarding I & II
- Personal Finance
- Project Design Woods
Post-Secondary Enrollment

Grades 10-12

* Post Secondary Enrollment Options (PSEO) is a program that allows 10th, 11th and 12th grade students the opportunity to earn college credit for courses completed while still in high school. Courses are generally offered on college campuses or at their local high school. Some colleges may also offer online courses. Students may see their high school counselor for more information and application procedures.

*State of Minnesota and District 742 pays for tuition and books for PSEO classes.

*High School seniors must rank in the upper 1/2 of their class or score at or above the 50th percentile on a nationally norm referenced test such as the ACT or SAT.

* High School juniors must rank in the upper 1/3 of their class or score at or above the 70th percentile on a nationally standardized norm reference test such as the ACT or SAT. If schools do not rank, a specific grade point average will be needed by the admitting college.

*Please see the Minnesota State Colleges and Universities website at [www.mnscu.edu/admissions/pseo.html](http://www.mnscu.edu/admissions/pseo.html) for admissions standards.

*Sophomores may enroll in a career or technical education course at a MnSCU college or university if they have attained a passing score or met the 8th grade standard on the 8th grade Minnesota Comprehensive Assessment in reading and math. Colleges may have other prerequisites or course requirements that need to be met for admission. **If a sophomore receives a “C” or higher in the course, they will be allowed to take additional career or technical courses.** Please see [www.mnscu.edu/pseo](http://www.mnscu.edu/pseo) for a list of post colleges and universities that offer career and technical courses for sophomores.

*A student who first enrolls PSEO as a sophomore and wishes to enroll in general education courses as an 11th or 12th grade student must take the system Assessment for Course Placement and achieve the required score for admission.

*Colleges and universities may require sophomores to meet with a college counselor.

* Colleges and universities may admit students based on other documentation of ability.

*Private colleges and universities may admit students based on their own admission standards. Some examples of private colleges are St. Mary’s, Rasmussen, and College of St. Scholastica.

* Travel reimbursement is available for students whose families are at or below the poverty level. Please call the State of Mn at (651) 582.8855 if you have additional questions.

*Please see [www.mnscu.edu/pseo](http://www.mnscu.edu/pseo) for more detailed information on admission, standards, participating colleges and universities, course, and travel reimbursement.

Senior to Sophomore Program

Grades 11-12

Senior to Sophomore is a partnership between St. Cloud State University and Technical High School allowing eligible students to enroll in introductory level college courses at Tech High School. The courses are taught by Tech teachers and the course content is developed cooperatively with St. Cloud State University faculty. Upon satisfactory completion of these courses, the student will receive both high school and college credit. Students will be informed about eligible courses as they develop. Juniors must rank in the top 1/3 of their class and seniors the top 1/2 of their class to be eligible. Pre Calculus students much take a Pretest and score a 19 to be eligible. Sophomores may be eligible for Spanish III & IV if they rank in the top 10% of their class. Courses available at Tech: Chemistry, Physics, Human Biology, Spanish III & IV and Pre-Calculus.
**Elementary Teacher Assistant**
Grade 12
This program is designed as an opportunity for students to assist in an elementary for a full year under the supervision of an elementary teacher. Students will gain experience and develop skills in working with children. This course is ideal for students who are interested in working with children as a career choice. Each student will be assigned to an elementary for two hours a day, earning two credits for each trimester.

**Online Learning**
District 742 contracts with Infinity – an online program. This program can assist students with courses they want to enroll, but cannot fit into their schedule due to scheduling conflicts. This program is not meant to replace courses at Tech, but serve as a supplemental tool. Students may see their counselor for further information.

**Discovery Academy**
Grades 11-12
You may receive St. Cloud Technical Community College credit in Advanced Automotives, Emergency Medical Services, and Welding. Courses are taught at St. Cloud Technical College, Apollo, Sartell, Sauk Rapids, and Tech High Schools. All courses are offered through the St. Cloud Technical College. See your counselor for details.

**Project Lead the Way**
Grades 9-12
Project Lead the Way (PLTW) is a nationwide program focusing on various educational/career pathways, including engineering, computer science, and biomedical science. Through PLTW courses, students develop and apply knowledge and technical skills in real-world challenges, while also learning to solve problems, think critically and creatively, communicate, and collaborate. Upon course completion, students who score high enough on the end-of-course exam can apply for credit from St. Cloud State University. Cost is $100 per credit. Tech offers Intro to Engineering & Design, Aerospace Engineering, Civil Engineering and Architecture, and Engineering Design & Development.

**DROPPING CLASSES/GRADING PROCEDURES**

**Dropping Classes:**
Classes may be dropped up to 6 weeks into the trimester without penalty. (The counselor and teacher may address extenuating circumstances on an individual basis.) If you choose to drop a class after the deadline, you will receive an “F” as a trimester grade for the class. If students need to replace a class, students must drop within the first two days of the trimester.

**Grading:**
A trimester grade of “NC” means course requirements have not been met prior to the end of the grading period. A student receiving a “NC” grade will have a maximum of one trimester to complete missing assignments. A shorter period of time may be required at the teacher’s discretion.

If a student repeats a course, the higher grade earned will be awarded, but credits will not be awarded twice. Grade point averages are based on trimester grades and are computed three times a year and include 9th-12th grade courses.
Following are Tech High School approved NCAA courses:

**English**
- AP Literature & Composition
- AP Language & Composition
- Creative Writing
- Humanities
- Journalism
- Language Arts 9 (level 1 & 2)
- Language Arts 10 (level 1 & 2)
- Language Arts 11
- Popular Fiction
- Speech
- Themes in American Literature

**Mathematics**
- Advanced Algebra II
- Advanced Geometry
- Algebra II
- AP Statistics
- Calculus
- Calculus AB/AP
- Calculus BC/AP
- College Prep Math
- Geometry
- Pre-Calculus
- Statistics
- Calculus
- AP Calculus AB
- AP Calculus BC

**Science**
- Advanced Biology (lab)
- Advanced Science 9 (lab)
- Biology (lab)
- Biology AP (lab)
- Chemistry (lab)
- Chemistry AP (lab)
- Environmental Science (lab)
- Human Biology (lab) (level 1 & 2)
- Physics (lab)
- Physics (lab) AP
- Practical Chemistry (lab)
- Practical Physics (lab)
- Science 9 (lab)

**Social Studies**
- American Government
- AP American Government:
- American and Comparative
- AP Economics
- AP Human Geography
- AP Psychology
- AP US History
- AP World History
- Economics
- Geography
- Psychology
- US History
- World History

**Additional Core Courses**
- American Sign Language I, II, III & IV
- French I, II, III & IV
- German I, II, III & IV
- Spanish I, II, III, IV & AP Spanish
CLASS OF 2018
TECH HIGH SCHOOL

GRADUATION REQUIREMENTS
1. My present career plans after high school graduation is:

2. Schedule of Subjects (PRINT WITH PENCIL.) Required subjects for each grade are already typed in. The blank spaces need to be filled in by the student with electives (courses you choose). Carefully read this booklet when selecting courses and be sure to discuss selections with your counselor, parents, and teachers.

Two semesters or three trimesters in the Arts (Visual Arts, Music, Theater, Drama, or Media Arts) must be taken in grades 9-12. Credits 9-12 must total 53. Courses must be taken for a letter grade.

<table>
<thead>
<tr>
<th>9th Grade</th>
<th>10th Grade</th>
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<tbody>
<tr>
<td>Semester 1</td>
<td>Lev Cr</td>
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<tr>
<td>Language Arts 9</td>
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<tr>
<td>Geography</td>
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<tr>
<td>Math</td>
<td></td>
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<tr>
<td>Science 9</td>
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### 11th Grade

<table>
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<th>Lev Cr</th>
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<th>Lev Cr</th>
<th>Trimester 3</th>
<th>Lev Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 11: Themes in Literature</td>
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<td>LA 11 El</td>
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<td>LA 11 El</td>
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<tr>
<td>U. S. History</td>
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<tr>
<td>Math</td>
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<td>Math</td>
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<td>Math</td>
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<tr>
<td>Science</td>
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<td>Science</td>
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<td>Science</td>
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### 12th Grade

<table>
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<tr>
<th>Trimester 1</th>
<th>Lev Cr</th>
<th>Trimester 2</th>
<th>Lev Cr</th>
<th>Trimester 3</th>
<th>Lev Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 12 Writing</td>
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<td>LA 12</td>
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<td>LA 12</td>
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<tr>
<td>Economics</td>
<td></td>
<td>Government</td>
<td></td>
<td>Social Elective</td>
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</tbody>
</table>

Total Credits 9-12 =

3. This represents my present “best thinking” regarding my future plans. As I progress through school, I may want to revise this plan.

Parent Signature ___________________________
NINTH GRADE ELECTIVES

ART
Art Fundamentals A (1 cr.)
Art Fundamentals B (1 cr.)
2D Art I (1 cr.)
2D Art II (1 cr.)
2D Art III (1 cr.)
3D Art I (1 cr.)
3D Art II (1 cr.)
3D Art III (1 cr.)

PROGRAMMING III (1 cr.)

DISCOVERY
ACADEMY/PROJECT LEAD THE WAY
Introduction to Engineering & Design (3 cr.)

MUSIC
AP Music Theory (3 cr.) (Instructor approval required)
Varsity Band (1.5 cr.)
Wind Ensemble (3 cr.) (Instructor approval required)
Jazz Ensemble (no cr.)
Chamber Choir (no cr.)
Choir 9 (1.5 cr.)
Treble Choir (1.5 cr.)
Chamber Orchestra (no cr.)
Concert Orchestra (1.5 cr.)
Symphony Orchestra (3 cr.) (Instructor approval required)
History of Rock and Roll (1 cr.)
Introduction to World Music (1 cr.)

TECHNOLOGY EDUCATION
Introduction to Photo (1 cr.)
Introduction to Video (1 cr.)
Woods: Introduction (1 cr.)
Woods: Mass Production (1 cr.)
Metals – Introduction (Welding) (1 cr.)
Transportation – Air and Space (non-PLTW) (1 cr.)
Robotics – Introduction (1 cr.)
Introduction to Drafting
Introduction to Engineering & Design (3 cr.)

WORLD LANGUAGES
American Sign Language I (3 cr.)
French I (3 cr.)
German I (3 cr.)
German II (3 cr.)
Spanish I (3 cr.)
Spanish II (3 cr.)

BUSINESS, MARKETING AND ENTREPRENEURSHIP
Digital Literacy/Computer Applications (1 cr.)
General Business (1 cr.)
Keyboarding I (1 cr.)
Keyboarding II (Computers for College) (1 cr.)

COMPUTERS
Digital Literacy/Computer Applications (1 cr.)
Programming I (1 cr.)
Programming II (1 cr.)

DISCOVERY
ACADEMY/PROJECT LEAD THE WAY
Introduction to Engineering & Design (3 cr.)
TENTH GRADE ELECTIVES

ART
Art Fundamentals A (1 cr.)
Art Fundamentals B (1 cr.)
2D Art I (1 cr.)
2D Art II (1 cr.)
2D Art III (1 cr.)
Studio Art 2D (Drawing or Design) (3 cr.)
3D Art I (1 cr.)
3D Art II (1 cr.)
3D Art III (1 cr.)
Studio Art 3D (3 cr.)

BUSINESS, MARKETING AND ENTREPRENEURSHIP
Automated Accounting I (1 cr.)
Automated Accounting II (1 cr.)
Automated Accounting III (1 cr.)
Business Law I (Criminal & Civil Law) (1 cr.)
Business Law II (Contract Law) (1 cr.)
Digital Literacy/Computer Applications (1 cr.)
General Business (1 cr.)
Entrepreneurship I (1 cr.)
Entrepreneurship II (1 cr.)
Keyboarding I (1 cr.)
Keyboarding II (Computers for College) (1 cr.)
Personal Finance (1 cr.)
Sales and Marketing (1 cr.)
Web Page/Game Design (1 cr.)

COMPUTERS
Digital Literacy/Computer Applications (1 cr.)
Programming I (1 cr.)
Programming II (1 cr.)
Programming III (1 cr.)
Web Page/Game Design (1 cr.)
AP Computer Science (3 cr.)
AP Computer Science Principles (3 cr.)

DISCOVERY
ACADEMY/PROJECT LEAD THE WAY
Aerospace Engineering (3 cr.)
Introduction to Engineering & Design (3 cr.)
Civil Engineering and Architecture (3 cr.)
Principles of the Biomedical Sciences (PBS) (3 cr.)
First Responder (2 cr.)

FAMILY & CONSUMER SCIENCE
Child Development I (1 cr.)
Foods and Nutrition I (1 cr.)
Foods and Nutrition II (1 cr.)

LANGUAGE ARTS
Yearbook (1 cr.)

MUSIC
AP Music Theory (3 cr.) (Instructor approval required)
Concert Band (2.5 cr.)
Wind Ensemble (3 cr.) (Instructor approval required)
Jazz Ensemble (no cr.)
Chamber Choir (no cr.)
Concert Choir (3 cr.) (Instructor approval required)
Mixed Choir (2.5 cr.)
Treble Choir (2.5 cr.)
Chamber Orchestra (no cr.)
Concert Orchestra (1.5 cr.)
Symphony Orchestra (3 cr.) (Instructor approval required)
History of Rock and Roll (1 cr.)
Introduction to World Music (1 cr.)

PHYSICAL EDUCATION
Personal Fitness (.5 cr.)
Competitive Team Sports (.5 cr.)
Recreational Lifetime Sports (.5 cr.)
Outdoor Adventures and Activities (.5 cr.)
Strength Training and Conditioning (.5 cr.)
Lifeguard Training (1 cr.)
Health II (1 cr.)

SCIENCE
AP Biology (3 cr.)

SPECIAL PROGRAMS
Yearbook – Techoes (1 cr.)
Yearbook Editing (2 cr.)

TECHNOLOGY EDUCATION
Introduction to Photo (1 cr.)
Advanced Photo (1 cr.)
Introduction to Video (1 cr.)
Advanced Video (1 cr.)
Woods: Introduction (1 cr.)
Woods: Construction (1 cr.)
Woods: Mass Production (1 cr.)
Woods: Project Design Woods (1 cr.)
Metals – Introduction (Welding) (1 cr.)
Metals – Advanced (Welding II) (1 cr.)
Transportation – Air and Space (1 cr.)
Transportation – Automotive (1 cr.)
Transportation – Advanced Automotive (1 cr.)
Robotics – Introduction (1 cr.)
Robotics – Advanced (1 cr.)
Introduction to Drafting
Aerospace Engineering (3 cr.)
Introduction to Engineering & Design (3 cr.)
Civil Engineering and Architecture (3 cr.)

WORLD LANGUAGE
American Sign Language I (3 cr.)
American Sign Language II (3 cr.)
<table>
<thead>
<tr>
<th></th>
<th>American Sign Language III or IV (3 cr.)</th>
<th>French III (3 cr.)</th>
<th>Spanish I (3 cr.)</th>
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<tbody>
<tr>
<td></td>
<td>French I (3 cr.)</td>
<td>German I (3 cr.)</td>
<td>Spanish II (3 cr.)</td>
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<td></td>
<td>French II (3 cr.)</td>
<td>German II (3 cr.)</td>
<td>Spanish III (3 cr.)</td>
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<tr>
<td></td>
<td>German III or IV (3 cr.)</td>
<td></td>
<td>Spanish IV (3 cr.)</td>
</tr>
</tbody>
</table>

**ELEVENTH GRADE ELECTIVES**
ART
Art Fundamentals A (1 cr.)
Art Fundamentals B (1 cr.)
2D Art I (1 cr.)
2D Art II (1 cr.)
2D Art III (1 cr.)
Studio Art 2D (Design or Drawing) (3 cr.)
AP Art 2D (Design or Drawing) (3)
3D Art I (1 cr.)
3D Art II (1 cr.)
3D Art III (1 cr.)
Studio Art 3D (3 cr.)
AP Art 3D (3)

BUSINESS, MARKETING AND ENTREPRENEURSHIP
Automated Accounting I (1 cr.)
Automated Accounting II (1 cr.)
Automated Accounting III (1 cr.)
Business Law I (Criminal & Civil Law) (1 cr.)
Business Law II (Contract Law) (1 cr.)
Digital Literacy/Computer Applications (1 cr.)
General Business (1 cr.)
Enterprise Business I (1 cr.)
Enterprise Business II (1 cr.)
Keyboading I (1 cr.)
Keyboading II (Computers for College) (1 cr.)
Personal Finance (1 cr.)
Sales and Marketing (1 cr.)
Web Page/Game Design (1 cr.)

COMPUTERS
Digital Literacy/Computer Applications (1 cr.)
Programming I (1 cr.)
Programming II (1 cr.)
Programming III (1 cr.)
Web Page/Game Design (1 cr.)
AP Computer Science (3 cr.)
AP Computer Science Principles (3 cr.)

COOPERATIVE EDUCATION WORK PROGRAMS
Work Experience/Employment Skills (up to 9 cr.)

FAMILY & CONSUMER SCIENCE
Child Development I (1 cr.)
Foods and Nutrition I (1 cr.)
Foods and Nutrition II (1 cr.)

LANGUAGE ARTS
Yearbook (1 cr.)
Modern American Literature (1 cr.)
Short Story Literature (2017-18) (1 cr.)
Science Fiction (2017-18) (1 cr.)
Popular Fiction (1 cr.)
Novels (1 cr.)
Humanities (1 cr.)
Visual Literacy (1 cr.)
Professional Writing (1 cr.)
Written Composition (1 cr.)
Creative Writing (1 cr.)
Speech (1 cr.)
Communications (1 cr.)
Debate/Argumentation (1 cr.)
Mass Media (1 cr.)
Performance Literature/Oral Interpretation (1 cr.)

MATHEMATICS
Advanced Algebra II (3 cr.)
Advanced Geometry (3 cr.)
Pre-Algebra 1 (3 cr.)
Algebra 1.1 (3 cr.)
Algebra 1.2 (3 cr.)
Algebra 2 (3 cr.)
AP Calculus AB (3 cr.)
AP Calculus BC (3 cr.)
AP Statistics (3 cr.)
Pre-Calculus (3 cr.)
Calculus (3 cr.)
College Prep Math (3 cr.)
Geometry (3 cr.)
Statistics (1 cr.)

MUSIC
AP Music Theory (3 cr.) (Instructor approval required)
Concert Band (3 cr.)
Wind Ensemble (3 cr.) (Instructor approval required)
Jazz Ensemble (no cr.)
Chamber Choir (no cr.)
Concert Choir (3 cr.) (Instructor approval required)
Mixed Choir (3 cr.)
Treble Choir (3 cr.)
Chamber Orchestra (no cr.)
Symphony Orchestra (3 cr.) (Instructor approval required)
History of Rock and Roll (1 cr.)
Introduction to World Music (1 cr.)

PHYSICAL EDUCATION
Personal Fitness (.5 cr.)
Competitive Team Sports (.5 cr.)
Recreational Lifetime Sports (.5 cr.)
Outdoor Adventures and Activities (.5 cr.)
Strength Training and Conditioning (.5 cr.)
Advanced Strength Training and Conditioning (.5 cr.)
Peak Performance Strength Training (.5 cr.)
Lifeguard Training (1 cr.)
Health II (1 cr.)

SCIENCE
AP Chemistry (4.5 cr.)
Chemistry (3 cr.)
Practical Chemistry (3 cr.)
Environmental Science (3 cr.)
Health Career Exploration (3 cr.)
Human Biology (Anatomy and Physiology) (3 cr.)
Physics (3 cr.)
Practical Physics (3 cr.)
AP Physics (4.5 cr.)

SOCIAL STUDIES
AP Psychology (3 cr.)
AP World History (3 cr.)
AP US History (3 cr.)
Psychology (1 cr.)
Practical Law (1 cr.)
Sociology (1 cr.)
History through Film (1 cr.)
Ethnic Studies (1 cr.)

SPECIAL PROGRAMS
Guidance Office Aide (1 cr.)
Learning Resource Center Asst. (1 cr.)
Media Assistant (1 cr.)
Peer Tutoring (1 cr.)
Student Services Office Aide (1 cr.)
Student Instructor (1 cr.)

DISCOVERY
ACADEMY/PROJECT LEAD THE WAY
Brakes – Discovery Academy (3 cr.)
Electrical/Electronic Systems –
Discovery Academy (3 cr.)
Engine Performance – Discovery
Academy (3 cr.)
Steering and Suspension – Discovery
Academy (3 cr.)
Aerospace Engineering (3 cr.)
Introduction to Engineering & Design
(3 cr.)

Civil Engineering and Architecture (3 cr.)
PLTW Engineering Design &
Development (3 cr.)
Principles of the Biomedical Sciences
(PBS) (3 cr.)
First Responder (2 cr.)
Health Career Exploration (3 cr.)
Engineering Design and Development
(3 cr.)

TECHNOLOGY EDUCATION
Introduction to Photo (1 cr.)
Advanced Photo (1 cr.)
Introduction to Video (1 cr.)
Advanced Video (1 cr.)
Woods: Introduction (1 cr.)
Woods: Construction (1 cr.)
Woods: Building Trades (3 cr.)
Woods: Mass Production (1 cr.)
Woods: Project Design Woods (1 cr.)
Metals – Introduction (Welding) (1 cr.)
Metals – Advanced (Welding II) (1 cr.)
Transportation – Air and Space (1 cr.)
Transportation – Automotive (1 cr.)
Transportation – Advanced Automotive
(1 cr.)
Robotics – Introduction (1 cr.)
Robotics – Advanced (1 cr.)
Introduction to Drafting (1 cr.)

Aerospace Engineering (3 cr.)
Introduction to Engineering & Design
(3 cr.)
Civil Engineering and Architecture (3 cr.)
Engineering Design & Development (3 cr.)

WORLD LANGUAGE
American Sign Language I (3 cr.)
American Sign Language II (3 cr.)
American Sign Language III or IV (3 cr.)
French I (3 cr.)
French II (3 cr.)
French III (3 cr.)
French IV (3 cr.)
German I (3 cr.)
German II (3 cr.)
German III or IV (3 cr.)
Spanish I (3 cr.)
Spanish II (3 cr.)
Spanish III (3 cr.)
Spanish IV (3 cr.)
AP Spanish (3 cr.)

TWELFTH GRADE ELECTIVES

ART
Art Fundamentals A (1 cr.)
Art Fundamentals B (1 cr.)
2D Art I (1 cr.)
2D Art II (1 cr.)
2D Art III (1 cr.)
Studio Art 2D (3 cr.)
3D Art I (1 cr.)
3D Art II (1 cr.)
3D Art III (1 cr.)
Studio Art 2D (Design or Drawing) (3 cr.)
Studio Art 3D (3 cr.)

BUSINESS, MARKETING AND
ENTREPRENEURSHIP
Automated Accounting I (1 cr.)
Automated Accounting II (1 cr.)
Automated Accounting III (1 cr.)
Business Law I (Criminal & Civil Law)
(1 cr.)
Business Law II (Contract Law) (1 cr.)
Digital Literacy/Computer Applications
(1 cr.)
General Business (1 cr.)
Entrepreneurship I (1 cr.)

Entrepreneurship II (1 cr.)
Keyboarding I (1 cr.)
Keyboarding II (Computers for
College) (1 cr.)
Personal Finance (1 cr.)
Sales and Marketing (1 cr.)
Web Page/Game Design (1 cr.)

COMPUTERS
Digital Literacy/Computer Applications
(1 cr.)
Programming I (1 cr.)
Programming II (1 cr.)
Programming III (1 cr.)
Web Page/Game Design (1 cr.)
AP Computer Science (3 cr.)
AP Computer Science Principles (3 cr.)

COOPERATIVE EDUCATION
WORK PROGRAMS
Work Experience/Employment Skills
(up to 9 cr.)

FAMILY & CONSUMER
SCIENCE
Child Development I (1 cr.)
Foods and Nutrition I (1 cr.)
Foods and Nutrition II (1 cr.)

LANGUAGE ARTS
Yearbook (1 cr.)
Modern American Literature (1 cr.)
Short Story Literature (1 cr.)
Science Fiction (2017-18) (1 cr.)
Popular Fiction (1 cr.)
Novels (1 cr.)
Humanities (1 cr.)
Visual Literacy (1 cr.)
Professional Writing (1 cr.)
Written Composition (1 cr.)
Creative Writing (1 cr.)
Speech (1 cr.)
Communications (1 cr.)
Debate/Argumentation (1 cr.)
Mass Media (1 cr.)
Performance Literature/Oral Interpretation (1 cr.)

MATHEMATICS
Advanced Algebra II (3 cr.)
Advanced Geometry (3 cr.)
Pre-Algebra I (3 cr.)
Algebra 1.1 (3 cr.)
Algebra 1.2 (3 cr.)
Algebra 2 (3 cr.)
AP Calculus AB (3 cr.)
AP Calculus BC (3 cr.)
AP Statistics (3 cr.)
Pre-Calculus (3 cr.)
Calculus (3 cr.)
College Prep Math (3 cr.)
Geometry (3 cr.)
Statistics (1 cr.)

MUSIC
AP Music Theory (3 cr.) (Instructor approval required)
Concert Band (3 cr.)
Wind Ensemble (3 cr.) (Instructor approval required)
Jazz Ensemble (no cr.)
Chamber Choir (no cr.)
Concert Choir (3 cr.) (Instructor approval required)
Mixed Choir (3 cr.)
Treble Choir (3 cr.)
Chamber Orchestra (no cr.)
Symphony Orchestra (3 cr.) (Instructor approval required)
History of Rock and Roll (1 cr.)
Introduction to World Music (1 cr.)

PHYSICAL EDUCATION
Personal Fitness (.5 cr.)
Competitive Team Sports (.5 cr.)
Recreational Lifetime Sports (.5 cr.)
Outdoor Adventures and Activities (.5 cr.)
Strength Training and Conditioning (.5 cr.)
Advanced Strength Training and Conditioning (.5 cr.)
Peak Performance Strength Training (.5 cr.)
Lifeguard Training (1 cr.)
Health II (1 cr.)

SCIENCE
AP Chemistry (4.5 cr.)
Chemistry (3 cr.)
Practical Chemistry (3 cr.)
Environmental Science (3 cr.)
Health Career Exploration (3 cr.)
Human Biology (Anatomy and Physiology) (3 cr.)
Physics (3 cr.)
Practical Physics (3 cr.)
AP Physics (4.5 cr.)

SOCIAL STUDIES
AP Psychology (3 cr.)
AP World History (3 cr.)
AP US History (3 cr.)

Psychology (1 cr.)
Practical Law (1 cr.)
Sociology (1 cr.)
History through Film (1 cr.)
Ethnic Studies (1 cr.)

SPECIAL PROGRAMS
Guidance Office Aide (1 cr.)
Learning Resource Center Asst. (1 cr.)
Media Assistant (1 cr.)
Peer Tutoring (1 cr.)
Student Services Office Aide (1 cr.)
Student Instructor (1 cr.)

DISCOVERY
ACADEMY/PROJECT LEAD THE WAY
Brakes – Discovery Academy (3 cr.)
Electrical/Electronic Systems – Discovery Academy (3 cr.)
Engine Performance – Discovery Academy (3 cr.)
Steering and Suspension – Discovery Academy (3 cr.)
Aerospace Engineering (3 cr.)
Introduction to Engineering & Design (3 cr.)
Civil Engineering and Architecture (3 cr.)
PLTW Engineering Design & Development (3 cr.)
Principles of the Biomedical Sciences (PBS) (3 cr.)
First Responder (2 cr.)
Health Career Exploration (3 cr.)
Engineering Design and Development (3 cr.)

TECHNOLOGY EDUCATION
Introduction to Photo (1 cr.)
Advanced Photo (1 cr.)
Introduction to Video (1 cr.)
Advanced Video (1 cr.)
Woods: Introduction (1 cr.)
Woods: Construction (1 cr.)
Woods: Building Trades (3 cr.)
Woods: Mass Production (1 cr.)
Woods: Project Design Woods (1 cr.)
Metals – Introduction (Welding) (1 cr.)
Metals – Advanced (Welding II) (1 cr.)
Transportation – Air and Space (1 cr.)  
Transportation – Automotive (1 cr.)  
Transportation – Advanced Automotive (1 cr.)  
Robotics – Introduction (1 cr.)  
Robotics – Advanced (1 cr.)  
Introduction to Drafting (1 cr.)  

**ART**

**Art Fundamentals A**  
Grade 9, 10, 11, 12  
Length of Course: One trimester  
Prerequisite: No previous art experience expected  
Fee: $20.00 (Prorated for free/reduced lunch students)

This beginning level course explores the connection of art in our lives as it relates to the global world around us. Students will begin to understand the fundamentals of creative process and discover the application, trends, and relevance of art and crafts through a wide range of hands-on, practical projects. Basic visual literacy and communication skills will be introduced. The students will have an opportunity to explore the elements of art such as line, shape, color, form, value and texture through independent and group work.

**Art Fundamentals B**  
Grade 9, 10, 11, 12  
Length of Course: One trimester  
Prerequisite: No previous art experience expected  
Fee: $20.00 (Prorated for free/reduced lunch students)

This beginning level course explores the connection of art in our lives as it relates to the community around us. Students will begin to understand the fundamentals of creative process and discover the application, trends, and relevance of art and crafts through a wide range of hands-on, practical projects. Basic visual literacy and communication skills will be introduced. The students will have an opportunity to explore the elements of art such as line, shape, color, form, value and texture through independent and group work.

**2D Art Pathway**  
2D Art courses develop the specific skills and techniques related to two dimensional media. They are designed to build artistic and creative confidence. Students who are interested in developing “flat” products and mediums are encouraged to pursue this pathway. 2D Art I, II and III must be taken in consecutive order. All 2D classes may be repeated for elective credit if students are interested in further developing the skills covered in each particular class to a higher level.
2D Art I
Grade 9, 10, 11, 12
Length of Course: One trimester
Fee: $20.00 (Prorated for free/reduced lunch students)

This entry-level course will explore the creation of artwork using two dimensional media such as drawing, painting, collage, printmaking and mixed media. Students will practice a range of techniques and develop skills to create more realistic and engaging images. Elements of art and principles of design, art styles, and historical connections will be incorporated to increase visual literacy and understanding.

2D Art II
Grade 9, 10, 11, 12
Length of Course: One trimester
Prerequisite: 2D Art I
Fee: $20.00 (Prorated for free/reduced lunch students)

Students will further expand skills developed in 2D Art I. Additional media and techniques will be explored including introductions to cartooning, ink or watercolor, and canvas painting. Creative process, communication through art, and experimentation are emphasized.

2D Art III
Grade 9, 10, 11, 12
Length of Course: One trimester
Prerequisite: 2D Art I and II
Fee: $20.00 (Prorated for free/reduced lunch students)

Further refinement of drawing and painting skills will be emphasized. Students will produce images with deeper levels of complexity incorporating visual literacy and communication techniques. New topics such as portrait and figure studies, three dimensional drawing, design on the computer, and basic animation will be introduced.

Studio Art 2D
Grade 10, 11, 12
Length of Course: One year course, but may be taken by individual trimesters up to two years
Prerequisite: Successful completion of 2D I, II and III
Fee: $20.00 (Prorated for free/reduced lunch students)

Designed for students who are willing to push their two-dimensional art making skills to a higher level and strive toward artistic excellence. Students will be encouraged to develop their own individual art style, voice, concepts and compositions utilizing art research, critique process, and risk taking strategies. A portfolio of original work will be compiled and prepared for exhibition purposes. This class provides preparation for future collegiate art studies or careers.
**Advanced Placement Art 2D**

Grade 12 or by teacher recommendation (AP Level)

Length of Course: Full year

Prerequisite: Teacher approval

Fee: $30.00 per trimester (Prorated for free/reduced lunch students)

Students will prepare a portfolio of high quality original artwork in which they show mastery of concept development, composition and technical skills. AP Art is not based on a written exam, instead a digital slide portfolio will be submitted in May for possible college credit. Portfolios will include a series of 12 works that are based on an investigation of student's personal interest and 12 works that show versatility in their artmaking. Students should expect to complete a significant amount of work outside of class. One year of Studio Art is highly recommended prior to AP.

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**3D Art Pathway**

3D courses develop the specific skills and techniques related to three dimensional media designed to build artistic and creative confidence. Students who are interested in developing products with both form and function are encouraged to pursue this pathway. 3D Art I, II and III must be taken in consecutive order. All 3D classes may be repeated for elective credit if students are interested in further developing the skills covered in each particular class to a higher level.

**3D Art I**

Grade 9, 10, 11, 12

Length of Course: One trimester

Prerequisite: none

Fee: $20.00 (Prorated for free/reduced lunch students)

This entry-level course is a hands on class that will explore the creation of three dimensional artworks. Students will work with clay utilizing a variety of handbuilding techniques that are both functional and sculptural. Additional materials explored may include wood, plaster gauze, wire, recycled materials and found objects. Elements of art and principles of design, art styles, and historical connections will be incorporated to increase visual literacy and understanding.

**3D Art II**

Grade 9, 10, 11, 12

Length of Course: One trimester

Prerequisite: 3D I

Fee: $20.00 (Prorated for free/reduced lunch students)
Students will further expand on skills developed in 3D Art I. Students will be introduced to wheel throwing techniques used to make functional bowls, mugs, vases and plates. Various surface design techniques will be explored. Creative process, continued use of a range of 3D media, and experimentation are emphasized.

**3D Art III**
Grade 9, 10, 11, 12
Length of Course: One trimester
Prerequisite: 3D Art I and II
Fee: $20.00 (Prorated for free/reduced lunch students)

This course focuses on the continued growth of design and creative problem solving concepts while developing deeper levels of complexity and refinement in creating three dimensional artworks. Students will work with additive and subtractive sculpting techniques which may include clay or other media. The creation of functional ceramic pieces such as lidded jars, pouring vessels, goblets and serving dishes will be explored through a choice of handbuilding or wheel throwing techniques.

**Studio Art 3D**
Grade 10, 11, 12
Length of Course: One year course, but may be taken by individual trimesters up to two years
Prerequisite: Successful completion 3D I, II and III
Fee: $25.00 (Prorated for free/reduced lunch students)

Designed for students who are willing to push their three-dimensional art making skills to a higher level and strive toward artistic excellence. Students will be encouraged to develop their own individual art style, voice, concepts and compositions utilizing art research, critique process, and risk taking strategies. A portfolio of original work will be compiled and prepared for exhibition purposes. This class provides preparation for future collegiate art studies or careers.

**Advanced Placement Art 3D**
Grade 12 or by teacher recommendation (AP Level)
Length of Course: Full year
Prerequisite: Teacher approval
Fee: $30.00 per trimester (Prorated for free/reduced lunch students)

Students will prepare a body of high quality original artwork in which they show mastery of concept development, composition, and technical skills. AP Art is not based on a written exam, instead a digital slide portfolio will be submitted in May for possible college credit. Portfolios will include a series of 12 works that are based on an investigation of student’s personal interest and 8 works that show versatility in their art
making. Students should expect to complete a significant amount of work outside of class. One year of Studio Art is highly recommended prior to AP.

**BUSINESS, MARKETING AND ENTREPRENEURSHIP**

**Automated Accounting I**  
Grade 10, 11, 12  
Length of Course: One trimester

**Resources** Accounting is THE LANGUAGE OF BUSINESS. If you are thinking of any Business Major in college, this class is a must! This course is designed for the college/community college/business school student and anyone interested in running his/her own business. In this course you will develop an understanding of the basic principles of the accounting cycle, working with accounting procedures that are used in the workplace today. You will also learn about the wide variety of careers available to someone with an accounting background. Accounting for a sole proprietorship in a service business will be the emphasis of the first trimester.

**Automated Accounting II**  
Grade 10, 11, 12  
Length of Course: One trimester  
Prerequisite: Automated Accounting I

A continuation of the principles taught in Accounting I. Accounting for a partnership in a retail setting is used as a basis of study.

**Automated Accounting III**  
Grade 10, 11, 12  
Length of Course: One trimester  
Prerequisite: Automated Accounting I and II

More advanced topics such as depreciation and inventory valuation methods are covered in this class. Basis of study will be corporate accounting.

**Business Law I (Criminal & Civil Law)**  
Grade 10, 11, 12  
Length of Course: One trimester

“Ignorance of the law is no excuse.” Know your rights and responsibilities in everyday business transactions. Law enforcement and court procedures are studied through participation in jail/police department class trips, mock trial, and contact with legal and law enforcement professionals. We will study the law of crimes and torts (criminal and civil law).
**Business Law II (Contract Law)**
Grade 10, 11, 12 (Level 1 or 2)
Length of Course: One trimester

Every year you make hundreds of business contracts without even knowing it! You are bound by these contracts whether you know the law or not. In this class you will find out how people and businesses rely on these contracts every day. You will also find out what rights you have as a minor and how to protect yourself. This course may include a courtroom observation field trip.

**Digital Literacy/Computer Applications**
Grade 9, 10, 11, 12
*Standard: Media Arts Creation & Performance and Read, Listen & View.*
Length of Course: One trimester
Prerequisite: Keyboarding I

This course reflects the 21st Century marketplace expectations. Area colleges and employers emphasize the need for students to be technologically literate. Students will gain hands on experience with the word processing, spreadsheet and presentation applications found in Microsoft Office Suite, since these are the applications most widely used in the business world. Emphasis will be placed on the moral and social implications of computer technology; additional web 2.0 applications used in today’s society; the human factors involved in the use of computer; and the historical development of computers. This course will prepare students for College, Career & Community.

**General Business**
Grade 9, 10, 11, 12
Length of Course: One trimester

This course is designed to introduce students to the exciting world of business. Areas of interest will include types of businesses, how businesses make money, how businesses interact with their community and other businesses, and what it takes to be a successful businessperson. Upon completion of this course you will be issued a Tech Prep certificate if you meet Tech Prep requirements. This will allow you to bypass certain classes at St. Cloud Technical and Community College.

**Entrepreneurship I (Setting up your own business)**
Grade 10, 11, 12
Length of Course: One trimester

If you’ve ever thought of having your own construction company, day care center, hair and nail salon, or dental office, this class will help you learn what is needed. You will learn how to figure out how much money is needed to start your business and where it might come from. You’ll learn about planning, government helps and requirements, taxes, and necessary reports and data to make your business successful.
Entrepreneurship II (Human Resources)
Grade 10, 11, 12
Length of Course: One trimester

What is the best way to motivate people so that your business can grow and be successful? How do you find and hire great employees? This class examines the functions of managers in making a business successful. You’ll be introduced to human resource issues, learn how to give and take dynamic interviews. You’ll get to hone your skills by participating in the school store if you’d like.

Keyboarding I
Grade 9, 10, 11, 12
Length of Course: One trimester

Keyboarding is a skill that almost everyone will use—in school, on the job, and at home. During this class you will learn the correct technique for the computer keyboard and develop speed and accuracy. If you already know the correct technique for touch typing and can key at least 35 words per minute, see your counselor about testing out of this course and enrolling in Keyboarding II or other Microsoft computer classes. Students will take this class for a Pass/Fail grade only. Upon completion of this course you will be issued a Tech Prep certificate if you meet Tech Prep requirements. This will allow you to bypass certain classes at St. Cloud Technical and Community College.

Keyboarding II (Computers for College)
Grade 9, 10, 11, 12
Length of Course: One trimester
Prerequisite: Keyboarding I

Students will develop the skills that are used daily in business and college by using word processing applications. Spreadsheets and graphics/desktop publishing will be introduced. Students will learn the basic formatting of personal and business documents using word processing, spreadsheets and other business application tools. Students will continue the development of keyboarding speed, accuracy, and proofreading skills.

Personal Finance
Grade 10, 11, 12
Length of Course: One trimester

FREE money! That’s right. Take this class and learn how to make big bucks from ordinary savings. Topics covered in this class include banking, investing, insurance, taxes, budgeting, use of credit, housing and other consumer areas. Guest speakers visit the class and share their knowledge and experiences. Upon completion of this course you will be issued a Tech Prep certificate if you meet Tech Prep requirements. This will allow you to bypass certain classes at St. Cloud Technical College.
Sales and Marketing
Grade 10, 11, 12
Length of Course: One trimester

What makes an ad “good”? Do you want to become a successful salesperson? How can you figure out what consumers want and if they will buy your new product or service? In this class we will explore these topics and also investigate methods for setting the right price, and determining the right promotion strategies.

Web Page/Game Design
Grade 10, 11, 12
Length of Course: One trimester
*Standard: Media Arts Creation & Performance*
Prerequisite: Keyboarding I

The use of web pages has become a universal tool that businesses and individuals use every day. Students at will be given the opportunity to learn design and management skills for web page creation. We will use a variety of web editors and software to fit individual needs. Ethics, uses, software, layout, graphics, animation, and multimedia technology are some areas that will be covered in this course. Although not required, we recommend that students have taken the Digital Literacy/Computer Applications class. In addition, we will use game design software to create your own simple games.

COMPUTERS

Digital Literacy/Computer Applications
Grade 9, 10, 11, 12
Length of Course: One trimester
*Standard: Media Arts Creation & Performance and Read, Listen & View.*
Prerequisite: Keyboarding I

This course reflects the 21st Century marketplace expectations. Area colleges and employers emphasize the need for students to be technologically literate. Students will gain hands on experience with the word processing, spreadsheet and presentation applications found in Microsoft Office Suite, since these are the applications most widely used in the business world. Emphasis will be placed on the moral and social implications of computer technology; additional web 2.0 applications used in today’s society; the human factors involved in the use of computer; and the historical development of computers. This course will prepare students for College, Career & Community.
Programming I
Grade 9, 10, 11, 12
Length of Course: One trimester
Prerequisite: Algebra I prior to or during this course.

The world is in need of people who can make the computer do what they want it to do. Programming is different from using programs or applications that someone else has written. You are the creator or author of the program. You will learn “BASIC” commands needed to write programs, and no previous experience is required. If you already know some “BASIC”, it simply means you may be able to write more complex programs. You may follow this course with Programming II.

Programming II
Grade 9, 10, 11, 12
Length of Course: One trimester
Prerequisite: Algebra I either prior to or during this course and Programming I

In this course we will be adding on to what you have learned in Programming I, but we will be using a different language, Alice. It is more of an object-oriented programming language and similar coding to Java. You may follow this course with Programming III.

Programming III
Grade 9, 10, 11, 12
Length of Course: One trimester
Prerequisite: Algebra I either prior to or during this course and Programming II

Write your own programs and create the text boxes, check boxes, option buttons, command buttons and pull-down menus. You are in charge of making it colorful and user friendly. You will need knowledge of the “BASIC” language learned in Programming I and II. This is an introductory course in Visual Basic.

Web Page/Game Design
Grade 10, 11, 12
Length of Course: One trimester
Standard: Media Arts Creation & Performance
Prerequisite: Keyboarding I

The use of web pages has become a universal tool that businesses and individuals use every day. Students at will be given the opportunity to learn design and management skills for web page creation. We will use a variety of web editors and software to fit individual needs. Ethics, uses, software, layout, graphics, animation, and multimedia technology are some areas that will be covered in this course. Although not required, we recommend that students have taken the Digital Literacy/Computer Applications class. In addition, we will use game design software to create your own simple games.

AP Computer Science
Grade 10, 11, 12 (AP Level)
Length of Course: Three trimesters
Prerequisite: Programming I, II and III or equivalent experience

You will be creating Window’s applications. Previous programming experience is required (preferably Programming I, II, & III). Java is today’s most widely used programming language. Java is used for the course software. This is an introductory course to Java. Most course work is independent.

**AP Computer Science Principles**
Grade 10, 11, 12 (AP Level)
Length of Course: Three trimesters
Prerequisite: Alg I and Programming I
The course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. It introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. Successful completion of the course requirements will prepare students for the AP Computer Science Principles exam in the spring, and provide students an opportunity to earn college credit at many colleges and universities.

**COOPERATIVE EDUCATIONS WORK PROGRAMS**

**Work Experience/Employment Skills**
Grade 11, 12
(up to 9 Credits)
(Class: 1 Credit per trimester, Job: 2 Credits per trimester)

The Employment Skills program is for students who are interested in developing employment skills. You will study and discuss a variety of topics with others in the class. Topics studied center around workplace practices such as: getting, holding and terminating employment: job promotions, career planning, problem solving, team work, work safety, job shadowing, and discussions in a cluster group with other students of similar career interests. You will also seek employment in a part time job related to a career interest area. This is done through a business agreement with a local employer. Your job should be chosen to assist you to gain work experience, get skill training and help you learn about the occupation you are considering. Discussion and projects in class will draw from this experience. Class will be more meaningful if your job is in your potential future career choice.

**ENGLISH LANGUAGE LEARNERS**

English Language Learning courses offer Language Arts credits to students whose home language is not English. Tech offers EL classes at several different levels ranging from English Academy to Advanced. The
English Academy and Beginning classes are for students who are new learners of English. The Advanced classes focus on language refinement and development of reading and writing skills. As English skills develop, students will be placed progressively in more non-EL classes. The EL teachers will determine placement.

**FAMILY AND CONSUMER SCIENCE**

**Child Development I**  
Grade 10, 11, 12  
Length of Course: One trimester

This class will help students learn skills that are necessary for caring for children. Students will learn about families, parenting responsibilities, pregnancy and prenatal development, physical, social and emotional development of infants and caring for children. Students will also explore careers related to working with children.

**Foods & Nutrition I**  
Grade 10, 11, 12  
Length of Course: One trimester  
Fee: $20.00

Students will learn about nutrition, kitchen equipment, kitchen safety, food terminology, measuring techniques and food preparation. Students will learn the safe handling of food and kitchen equipment. Students will learn to operate and maintain kitchen equipment by using technical manuals, instruction and demonstration. In this class students will have the opportunity to plan and prepare a variety of different foods. Students will work cooperatively in groups.

**Foods & Nutrition II**  
Grade 10, 11, 12  
Length of Course: One trimester  
Prerequisite: Foods I  
Fee: $20.00

Students will build on the skills and materials learned in Foods I and learn about different cultures and their foods. Students will practice the safe handling of food and the safe and proper use of kitchen equipment. In this class students will have the opportunity to plan and prepare a variety of different foods. There will be opportunities to explore Food and Nutrition related careers. Students will work cooperatively in groups.

**LANGUAGE ARTS**

**Language Arts 9**
This year-long course teaches the Minnesota Academic Core Standards for grade 9. The course focuses on the following: reading independently, using the writing process, developing the essay, reviewing study skill strategies, reinforcing six trait writing skills, improving interpretive reading skills in fiction (including drama) and nonfiction, using research and technology, and developing oral communication skills.

Language Arts 9 Honors: Pre-AP LA 9 is a recommended preparatory course for the future AP courses in Language Arts. Skills taught are the same as LA 9 but at a higher level of mastery.

Language Arts 10
This year-long course teaches the Minnesota Academic Core Standards for Grade 10 and extends the skills learned in LA 9. Areas of focus include, but are not limited to, informative text, literature, communications, grammar, and writing for a variety of purposes.

Language Arts 10 Honors: Pre-AP LA 9 is a recommended preparatory course for the future AP courses in Language Arts. Skills taught are the same as LA 10 but at a higher level of mastery. Registration for this course must be approved by the Course Instructor

Language Arts 11 Tri 1: Themes In American Literature
Grade 11
Trimester Offered: 1st trimester
Length of Course: One trimester
This course is required for all 11th grade students first trimester NOT taking AP Language and Composition.

This required first trimester course gives students the opportunity to develop skills while studying themes of American Literature and composition. Students will read novels, short stories, nonfiction works, and poetry. Students will write essays, response papers, and a research paper. They will also continue to pursue acquisition of media literacy and public speaking skills.

* 11th Grade students must take 2 additional trimester elective courses in Language Arts to meet graduation requirements.

AP Language and Composition
Grade 11 (AP Level)
This year-long course fulfills the Language Arts requirements for Grade 11.

A year-long AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among writer’s
purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing.

**AP Literature and Composition**  
Grade 12 (AP Level)  
**This course fulfills the Language Arts requirements for Grade 12.**

Advanced Placement (AP) Literature and Composition is a challenging course designed for students seeking college level experience in English. Students will read both classic and contemporary literature, with a focus on developing analytical reading, writing, and discussion skills. Readings will be drawn from novels, plays, short stories, and poetry. Students enrolling in the course will read, write, and discuss extensively to build their repertoire of interpretive skills. Finally, students taking the course will be required to read several literary works and write analytical reactions during the summer immediately preceding the start of the course.

**LITERATURE COURSES**

**11th grade must take two additional Language Arts electives. Students may choose from Writing, Literature or Communications Language Arts electives.**

**12th grade must take three Language Arts Electives: one writing, one literature, and one communications elective.**

**Modern American Literature**  
Grade 11, 12  
Length of Course: One trimester  
*This course is recommended as a follow-up to LA 11: Themes in American Literature taken in the first trimester*

Students will read literature from the Reconstruction Period to the 21st Century. Literary and rhetorical analysis and composition will be a focus in this course.

**Short Story Literature (2017-18)**  
Grade 11, 12  
Length of Course: One trimester

This course provides students with the opportunity to read a wide selection of short stories. Students will demonstrate knowledge of plot, theme, character, point of view, setting, and irony. Additionally, students will develop their interpretation skills.

**Science Fiction (2017-18)**  
Grade 11, 12  
Length of Course: One trimester
The literature in this course deals with the realm of possibility. Many science fiction writers begin with the question “What if…?” and provide us with a vision of the way things might be in the near or distant future. Students will read novels and short stories during this course. Vocabulary study, discussions, quizzes, and tests as well as written reactions to themes in the literature will be part of this course.

**Popular Fiction**
Grade 11, 12
Length of Course: One trimester
Not NCAA Approved

Educated people read for enjoyment and information. This class will expose students to popular and high-interest novels from various genres of literature and nonfiction to inspire lifelong reading habits. Writing assignments will include reactions to readings, literary analysis, and creative/informative projects.

**Novels**
Grade 11, 12
Length of Course: One trimester

Students read and analyze several novels. A thematic approach to the literature will be evident, and the student will be expected to participate in class discussions as well as write explications and a literary essay.

**Humanities**
Grade 11, 12
Length of Course: One trimester

In this course, students examine works of literature, philosophy, and the arts to probe human identity and explore life’s meanings within the various cultural areas and eras.

**WRITING COURSES**
11th grade must take two additional Language Arts electives. Students may choose from writing, literature or communications Language Arts electives.

12th grade must take three Language Arts Electives: one writing, one literature, and one communications elective.

**Visual Literacy**
Grade 11, 12
Length of Course: One trimester
Not NCAA Approved

Visual Literature-
This course develops analytical and creative writing skills through working with drama. Students in this class will watch, analyze, and gain inspiration from visual modes of entertainment. Major assessments include
various Film Reviews, a Research Paper, a Compare-Contrast Essay, and a Fan-Fiction (Creative Writing) Project.

**Professional Writing**  
Grade 11, 12  
Length of Course: One trimester  
**Not NCAA Approved**

Students will practice writing skills that are of practical use in their lives outside of and beyond high school. Major areas of study and practice will include personal and professional writing such as: letters, resumes, reports, proposals, and other forms of correspondence, as well as responses to selected reading and informed opinion writing.

**Written Composition**  
Grade 11, 12  
Length of Course: One trimester

**Written Composition-**  
This course is geared toward the college-bound student. The course utilizes literature and current media sources to focus on writing conventions and writing formats used in research and exposition, literary analysis, and personal narration. In addition to the standard writing curriculum, ACT vocabulary development will be offered.

**Creative Writing**  
Grade 11, 12  
Length of Course: One trimester

This course offers the opportunity of growing in such writing areas as short stories, poetry, memoirs, and journal writing. This course, which requires daily writing, is designed for students who love to write and are looking to write in a creative style.

**COMMUNICATIONS COURSES**  
11th grade must take two additional Language Arts electives. Students may choose from writing, literature or communications Language Arts electives.

12th grade must take three Language Arts Electives: one writing, one literature, and one communications elective.

**Speech**  
Grade 11, 12  
Length of Course: One trimester

**Speech-**
This course is designed for students who are interested in honing their public speaking skills. It is a valuable course for students interested in competitive public speaking, but speech team experience or interest is not required. From storytelling to informing, persuading and entertaining, the public speaking student in this course can expect to share and express ideas with heightened confidence and eloquence.

**Communications**
Grade 11, 12
Length of Course: One trimester
Not NCAA Approved

**Communication-**
Commonly referred to as “Comm. 101” in many college settings, this communication course offers students an introduction to the five levels of communication: intrapersonal, interpersonal, group, public speaking and mass communication. Students will look at their role in the communication process and will be given opportunity to practice public speaking as well as verbal and nonverbal communication skills.

**Debate/Argumentation**
Grade 11, 12
Length of Course: One trimester

The student will develop skills in logic, persuasion, vocabulary, research, composition, organization, delivery, and ethics in persuasion. Important national issues from a political and evaluative perspective will be examined. This course will aid in preparing for college. The class will require speeches, in-class debates, and work outside of school.

**Mass Media**
Grade 11, 12
Length of Course: One trimester
Not NCAA Approved

This course examines the history of broadcast and mass media in our world and its role in the delivery of information and entertainment. Through class discussions, presentations, and projects, students will analyze the cognitive, emotional, moral, and aesthetic impact of mass media on our society.

**Performance Literature/ Oral Interpretation**
Grade 11, 12
Length of Course: One trimester
Not NCAA Approved

This course is designed to improve students’ skills in interpreting literature, enhancing speaking, and improving listening. Students will read a variety of genres, cut performance scripts, and perform a variety of speeches.
ELECTIVE CREDIT ONLY

Yearbook
Grade 10, 11, 12 (Editors-Level 1 only)
Trimester Offered: 1st and 2nd
Length of Course: Two trimesters
This course is a two-trimester course; students must register for both trimesters. While producing the yearbook, students in this course are exposed to all aspects of publication production including photography, copy, caption, and headline writing, press ethics, and page design principles. The class is divided into two groups - previously selected editors and production staff.

All trimesters of yearbook will count toward art credits; you must register for an additional language arts required course for all trimesters.

MATHEMATICS

For sequence of particular courses, refer to the flow chart at the end of the math section.

Calculators may be used in most of our Math classes. A scientific calculator (with fraction capabilities) is adequate through Geometry. Students who plan on taking Algebra II, College Prep, Pre-Calculus, Calculus, or Statistics will extensively use a graphing calculator. (These will also be used in Chemistry and Physics). Instruction on the graphing calculator will be done using the Texas Instruments graphing calculators. You may want to discuss calculator selection with a teacher.

Math 3
Grade 9, 10, 11, 12
Length of Course: Three trimesters
Not NCAA Approved

Students will develop working number sense, and will be introduced to fractions and decimals. Students will be introduced to problem solving applications.

Math 4
Grade 9, 10, 11, 12
Length of Course: Three trimesters
Not NCAA Approved

Students will continue to develop rational number sense. Students will be introduced to integers and variables. Students will develop problem-solving skills with geometry concepts and be introduced to the coordinate plane.
Pre-Algebra
Grade 9, 10, 11, 12
Length of Course: Three trimesters
Not NCAA Approved

Students will develop skills necessary to simplify arithmetic and algebraic expressions. They will evaluate algebraic expressions and solve equations. Basic geometric concepts will be further developed. Students will be introduced to translating word phrases and sentences into algebraic phrases and equations.

Algebra 1.1
For incoming 9th graders: 8th grade students that were in Algebra 1.1 that scored mostly 1s on the report card.
Grade 9, 10, 11, 12
Length of Course: Three trimesters
Not NCAA Approved

Linear Algebra: This course will focus on absolute value, functions, linear algebra, simplifying algebraic expressions, solving and graphing linear equations, and inequalities.

Algebra 1.2
For incoming 9th graders: Any 742 8th grade students that were in Algebra 1.1 that scored mostly 2s and above on the report card.
Grade 9, 10, 11, 12
Length of Course: Three trimesters
Not NCAA Approved

Linear and Quadratic Algebra: This course will continue to develop the algebraic concepts introduced in Algebra 1.1. The rest of the course will introduce factoring, solving systems of linear equations, polynomials, quadratics, radical and rational equations, probability and statistics.

Geometry
Grade 9, 10, 11, 12
Length of Course: Three trimesters
Prerequisite: Algebra 1.2

This course will introduce and develop basic terms and symbols of Geometry; area, perimeter and volume; symmetry and transformations; congruence and similarity; angle and line relationships; logical reasoning in proofs.

Advanced Geometry
For incoming 8th Grade teachers should recommend students who consistently earn 3s and 4s in Algebra 1.2.
Grade 9, 10, 11, 12 (Level 1)
Length of Course: Three trimesters
Prerequisite: Algebra 1.2 and Teacher Recommendation

This course will introduce and develop basic geometric terms, symbols, area, perimeter, surface area, volume, logical reasoning, proofs, constructions, classifying figures; coordinate geometry, reflections, rotations, translations, symmetry, and use math applications with the space, shape and measurements. Advanced Geometry moves at a faster pace and includes more in-depth problem solving.

**Algebra 2**
Grade 9, 10, 11, 12
Length of Course: Three trimesters
Prerequisite: Algebra 1.2 (Geometry is recommended)

This course is highly recommended for those students going on to college or technical school. Students will develop their skills of solving equations, graphing functions, simplifying expressions, rational and radical functions, probability and statistics. Students will be introduced to trigonometry, polynomials, complex numbers, conic sections, and logarithms.

**Advanced Algebra 2**
Grade 9, 10, 11, 12 (Level 1)
Length of Course: Three trimesters
Prerequisite: Algebra 1.2 (A- or higher) and Geometry (B+ or higher) or teacher recommendation

This course is highly recommended for those students going on to college or technical school. Students will develop their skills of solving equations, graphing functions, simplifying expressions, probability and statistics. Students will be introduced to matrices, trigonometry, polynomials, complex numbers, conic sections and logarithms. Advanced Algebra 2 moves at a faster pace and includes more in-depth problem solving.

**Vocational Mathematics**
Grade 12 only
Length of Course: One, two, or three trimesters
**Not NCAA Approved**

This course will continue to develop basic math skills and will introduce basic consumer applications.

**College Prep Math**
Grade 11, 12
Length of Course: Three trimesters
Prerequisite: Geometry and Algebra II

This is a pre-calculus course that is good preparation for many university or technical college programs. The course includes in depth work with graphs of relations, functions, polynomial equations, systems, and matrices. It will also develop concepts of trigonometry, logarithms, conic sections and sequences and series. This course can be followed by Calculus or Pre-Calculus.
**Pre-Calculus**
Grade 11, 12 (Level 1)
Length of Course: Three trimesters
Prerequisite: Algebra II Advanced (B or better) or College Prep Math (B+ or better) or teacher recommendation
Available Senior To Sophomore (S2S)

This course is preparation for AP Calculus or first year Calculus in College. Pre-Calculus is an aggressive approach to an in-depth study of algebra, analytic geometry, function theory, and trigonometry.

**Calculus**
Grade 11, 12 (Level 1)
Length of Course: Three trimesters
Prerequisite: College Prep Math or Pre-Calculus

This course is similar to AP Calculus, but moves at a slower pace. This course will focus on the basics of differential and integral calculus. The students will not be prepared for the AP Calculus Exam because not all topics will be covered.

**AP Calculus AB**
Grade 11, 12 (AP Level)
Length of Course: Three trimesters
Prerequisite: B or better in Pre-Calculus or B+ or better in College Prep

This course covers differential and integral calculus. It is equivalent to 1½ Semesters of Calculus at the college level. The students will be prepared for the AP Calculus Exam.

**AP Calculus BC**
Grade 11, 12 (AP Level)
Length of Course: Three trimesters
Prerequisite: AP Calculus or teacher recommendation

Calculus BC is a course that reviews the entire Calculus AB curriculum and introduces several major additional topics, such as Taylor polynomials, sequence and series, improper integrals, etc.

**Statistics**
Grade 11, 12
Length of Course: One trimester
Prerequisite: Completed 1st trimester Algebra II.

May be taken at the same time as other math classes.
Students will focus on statistical ideas and reasoning and their relevance to such fields as medicine, environmental science, business, psychology, sports, politics, and entertainment. This non-AP introduction of statistics will include analyzing data and producing data.

**AP Statistics**  
Grade 11, 12 (AP Level)  
Length of Course: Three trimesters  
Prerequisite: Completed Algebra II or higher with an A or B. Can be taken at the same time as other math classes, including Pre-Calculus, College Prep, and/or AP Calculus.

The course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will prepare to take the AP Statistics test. Students who are considering careers in medicine, environmental science, business, sociology, social work, psychology, sports, politics, and entertainment may benefit from this course.

**MUSIC**

**AP Music Theory**  
Grade 9, 10, 11, 12 (AP Level)  
Length of Course: Three trimesters  
(With Instructor Approval)

This course will reflect a range of skills typically developed during introductory college courses in music theory. This is NOT a music appreciation class. The foundation of knowledge presented in the year long AP Music Theory music course provides students the opportunity to develop, practice and master music theory skills essential to success in post-secondary music theory course work. Passing the exam in the spring with a 3-4 or 5 may earn you college credits at many colleges and universities.

**BAND**

**Varsity Band**  
Every other day opposite PE  
Grade 9  
Length of Course: Three trimesters (.5 credit per trimester)

Most 9th grade band students participate in the Varsity Band. Music for the Varsity Band will include traditional, popular and contemporary styles for high school bands. This band performs in evening concerts during the school year. Varsity Band members may participate in Pep Band events. Varsity band meets every other day.
**Concert Band**

Every day  
Grade 10, 11, 12  
Length of Course: Three trimesters  

Most 10th grade band students participate in the Concert Band. Music prepared will be selected from a variety of standard works for band, orchestral transcriptions, popular and contemporary music written for the high school concert band. This band performs in evening concerts during the school year. Concert Band members may participate in Pep Band events. Concert Band meets every day.

**Wind Ensemble**

Meets every day  
Grade 9, 10, 11, 12  
Length of Course: Three trimesters  
Prerequisite: Approval of Instructor  

The Wind Ensemble is the highest performing level band at Tech. This group will be limited in size and instrumentation. Music will be selected from the best of the traditional and contemporary literature for wind band. This band performs in evening concerts during the school year and participates in the Central Lakes Festival in the spring. All students must audition for placement in the Wind Ensemble. Members may participate in Pep Band events. Meets daily.

**Jazz Ensemble**

Grade 9, 10, 11, 12  
(No Credit)  

Jazz Ensemble meets before school. Instrumentation includes: alto, tenor and baritone saxophones, trumpets, trombones, bass, guitar, piano and drum set. Performs for various school and community concerts and functions throughout the year. Music performed will include a variety of musical styles including swing, blues, rock, Latin and ballads. More than one group may be formed depending on demand. Auditions for placement in Jazz Ensemble may be required.

**Pep Band**

The Pep Band Performs at a number of school athletic events, pep fests and possible community events. Pep Band will be organized more like an ‘activity’ this year. A core ‘House Band’ will be developed with other students being able to participate when they like.  

Students can earn points towards a Band Letter for each performance attended.  
A bus will be provided for football and hockey games to the game (from Tech) and back to Tech.
CHOIR

Chamber Choir
Grade 9, 10, 11, 12
(No Credit)
Prerequisite: Member of regular choir
Before school – could be up to 4 groups in the morning

Chamber Choir will be organized in the fall based on auditions. This will allow students to experience choral music written for smaller ensembles such as madrigals. Rehearsal times are usually before school.

Concert Choir
Grade 10, 11, 12
Length of Course: Three trimesters
Prerequisite: Audition/Instructor’s Approval

Concert Choir is a select mixed choir designed to fulfill the needs of those students who desire a more serious study of choral music. The choir will perform all styles of choral literature from the Renaissance through the contemporary periods. The choir rehearses daily and performs at several concerts and festivals throughout the year. All students must audition for placement in Concert Choir.

Mixed Choir
Grade 10, 11, 12
Length of Course: Three trimesters

Mixed Choir is open to any male or female student in grades 10-12 who enjoys singing and desires a greater understanding of choral music. The course will emphasize the continued development of skills necessary for good singing. The group rehearses daily and are involved in three or four performances a year.

Choir 9
Grade 9
Length of Course: Three trimesters

Choir 9 is open to any male or female student in 9th grade who are interested in singing. The course will emphasize the enjoyment of choral music and development of the basic skills necessary for good singing. The group rehearses every other day opposite PE and are involved in three or four performances a year.

Treble Choir
Grade 10, 11, 12
Length of Course: Three trimesters

Treble Choir is a choir open to sopranos and altos in grades 10 through 12 who desire a strong background in choral singing. The course provides girls with a greater understanding of music skills as well as singing fine choral literature for female voices. The choir performs at several concerts and festivals throughout the year.

ORCHESTRA

Chamber Orchestra
Grade 9, 10, 11, 12
(No Credit)
Prerequisite: Enrolled in Orchestra. Audition Required.

The Tech Chamber Orchestra is a select string group organized in the spring based on auditions. Chamber Musicians must be members of the Symphony Orchestra. Musical literature will be comprised of classical and light pop selections for small string ensemble. The Tech Chamber Orchestra will meet during Symphony on occasion and before school or after school (as needed). Chamber also performs at all orchestra concerts as well as school and community events throughout the year.

Concert Orchestra
Grade 9, 10
Length of Course: Three trimesters (Every other day in Grade 9 or every day Grade 10)

The Concert Orchestra is an ensemble for developing and advancing string students who would like to focus on perfecting the fundamentals of string playing. Music will include traditional, popular and contemporary selections for high school orchestra with the addition of full orchestra pieces as needed. This Orchestra performs several evening concerts throughout the year, including possible traveling for some performances. Meets every other day or every day.

Symphony Orchestra
Grade 9, 10, 11, 12
Length of Course: Three trimesters
Prerequisite: Instructor Approval

The Symphony Orchestra is an advanced, auditioned-based string ensemble for students who have mastered the fundamentals of string-playing. Musical selections will be chosen from a comprehensive library of advanced classical and contemporary literature for string and full orchestra with the addition of winds, brass and percussion. The Symphony Orchestra performs several evening concerts and festivals throughout the year,
along with traveling for some performances. Meets daily along with a weekly section one day a week before school. Director approval required. See director for audition/approval requirements.

**History of Rock and Roll**  
Grade 9, 10, 11, 12  
Length of Course: One trimester  
Meets the arts standard requirement

This course will explore the influences which began and continue to shape popular music in America. Examine how music reflects the social and historical events of our country. Contributions from world cultures will be emphasized and students will actively participate in related classroom performances. No prior musical training or experience is needed.

**Intro to World Music**  
Grade 9, 10, 11, 12  
Length of Course: One trimester  
Meets the arts standard requirement

This course will explore selected musical traditions from around the world. We will explore how these musical traditions are shaped by and give shape to the cultural settings in which they are performed. Students will explore these musical traditions through listening, observing and active participation. This course will explore folk, art, and popular music from cultural soundscapes selected from Sub-Saharan Africa, India, Asia, the Middle East, Indonesia, Latin America, North America, and Europe.

**PHYSICAL EDUCATION**

**Fitness for Life**  
Grade 9  
Required: 9th grade  
Length of course: Full year every other day (.5 per trimester)

Students will meet national and state physical education standards and benchmarks. They will apply skills in team, dual, and individual activities as well as aquatics and rhythms. An emphasis will be placed on personal fitness. Students will assess current levels of fitness, create a personal fitness plan, and set personal goals.

**Health Education I**  
Required: 9th grade  
Length of Course: One trimester

This course will expose students to a wide variety of health related experiences such as analyzing and recognizing healthful and risky behaviors, demonstrating how to respond to harmful situations, and developing
refusal skills. In addition, students will learn how to make informed decisions, promote and develop healthy relationships, set goals, and make healthy food choices. Students will also learn how to identify illegal drugs and identify causes, signs, symptoms, and treatments for common illnesses. Students will meet national and state standards and benchmarks in health education.

**PHYSICAL EDUCATION ELECTIVES**

Successful completion of Fitness for Life PE9 is a prerequisite for ALL elective courses. Sophomores will choose one course of the 6 listed to complete their 10th grade physical education requirements. Juniors and seniors may also register for these elective classes. All elective classes will have an emphasis on lifelong fitness. Students will meet state and national physical education standards and benchmarks.

**Personal Fitness**
Grade 10, 11, 12
Length of Course: One trimester every other day (.5 credit)
Prerequisite: Fitness for Life (PE9)

This course is designed to focus the student at an individual level, promoting overall positive body image and awareness. Students will do individual goal setting and self-assessments. Students will be introduced to the four components of fitness; muscular strength, muscular endurance, flexibility, and cardiovascular endurance. Activities will include but are not limited to: Yoga, Pilates, circuit training and aerobics.

**Competitive Team Sports**
Grade 10, 11, 12
Length of Course: One trimester every other day (.5 credit)
Prerequisite: Fitness for Life (PE9)

Competitive team sports will allow the student to participate in a variety of team sport activities at a competitive level. Participation skills, officiating skills, game rules and strategies, will be practiced at an advanced level. Cooperative team concepts will be a focus as well as principles of training necessary to improve fitness, individual skills, and fundamentals. Activities will include; basketball, volleyball, floor hockey, football, speedball, soccer, team handball, softball, and others determined by class numbers and instructor.

**Recreational Lifetime Sports**
Grade 10, 11, 12
Length of Course: One trimester every other day (.5 credit)
Prerequisite: Fitness for Life (PE9)

Recreational sports will allow the student to participate in a variety of team and dual sport activities at a recreational level. Participation and knowledge of the game will be expected at a high level, however, skills and strategy will be at a basic level. Cooperative team concepts will be a focus, as well as principles of
training necessary to improve fitness. Emphasis will be on fitness for life. Activities include: wellness activities, badminton, golf, tennis, pickleball, volleyball, snowshoe and other recreational games.

**Outdoor Adventures and Activities**
Grade 10, 11, 12
Trimester Offered: First and third trimester (Tech Only)
Length of Course: One trimester every other day (.5 credit)
Prerequisite: Fitness for Life (PE9)
Fee: $30.00

Recreational sports and activities will allow students to experience a wide variety of individual, dual and outdoor activities. Class emphasis will be on lifetime activities. Students will be introduced to units including but not limited to: badminton, ultimate Frisbee, broomball, bowling, canoeing, kayaking, trip planning, conservation issues, fly casting, ultimate football, pickel ball, and team building.

**Strength Training and Conditioning**
Grade 10, 11, 12
Length of Course: One trimester every other day (.5 credit)
Prerequisite: Fitness for Life (PE 9)

This course will consist of strength training for students interested in toning, developing strength, power, agility, flexibility and speed. This class will teach lifting technique, spotting responsibility, plyometrics, and speed development activities in a safe environment. An emphasis will be placed on lifelong fitness. Students will assess personal fitness and will develop individual programs. Lifetime fitness activities will be introduced so that personal fitness plans may be developed to use lifelong.

**Advanced Strength Training and Conditioning**
Grade 11, 12 (10th grade with permission of instructor)
Length of Course: One trimester every other day (.5 credit)
Prerequisite: Fitness for Life (PE9)

This course will concentrate on advanced levels of muscle development through weight training, plyometrics, and speed development. This curriculum includes units in basic anatomy, physiology of strength development, kinesiology, effects of nutrition on performance and strength development, and the importance of flexibility. Student will do independent research, written assignments, knowledge tests, and physical activity. The student will develop his/her own strength-training program with the assistance of the instructor.

**Peak Performance Strength Training**
Grade 11, 12
Length of Course: One trimester every other day (.5 credit)
Prerequisite: Fitness for Life (PE9), Strength Training and Conditioning, Advanced Strength Training and Conditioning
Speed, agility, power, and quickness training will be emphasized with weight training incorporated to assist the student with optimum physical development. Workouts in the weight room will be designed to enhance the body’s capability of being powerful and explosive. Olympic lifts will be strongly emphasized. Students will be able to earn varsity letter award in weight training for this class.

**Lifeguard Training**
Grade 10, 11, or 12  
Length of Course: One trimester every day (1 credit)  
Prerequisite: Successful completion of PE 9

The primary purpose of this class is to certify students in Red Cross Lifeguard Training. This certification will allow a student to be eligible for employment at various aquatic facilities, such as indoor and outdoor pools (public and private), county and city parks and water parks. This course follows the Red Cross course of study for lifeguarding. Students will develop high skill levels in the five basic strokes as well as receive instruction and practice skills to save one’s own life or the life of another. CPR for the Professional Rescuer and First Aid will also be taught. Students must be at least 15 years of age to register. Class fee of $40.00 will be charged. Fee includes the required book for the course and certification. After the certification part of the course, the students will be involved in other aquatic and dry land activities.

**HEALTH EDUCATION ELECTIVES**
Successful completion of Health (9) is a prerequisite for Health elective courses. Students will meet state and national standards and benchmarks for health education.

**Health II**
Grade 10, 11, 12  
Length of Course: One trimester  
Prerequisite: Successful completion of Health I (Grade 9)

This course is designed for students who want to continue learning about health concepts, how they affect their future, and have the opportunity to become CPR and AED certified. Students will research information on proper nutrition and how it affects all areas of wellness. Other units may include; infectious diseases, chronic illnesses, healthy relationships, and how choices regarding sexual activity influence your life. Students will also undergo training by the American Red Cross in adult, infant, and child CPR, First Aid, and Automatic External Defibrillator. To become certified by the American Red Cross a fee will be charged.

**SCIENCE**

**Science 9**
Grade 9  
Length of Course: Three trimesters
Science 9 will focus on physical science and earth science concepts while incorporating real world connections. Each area is covered using a hands-on approach with supplemented textbook assignments and research projects.

**Advanced Science 9**  
Grade 9 by application only (Level 1)  
Length of Course: Three trimesters

This course will cover all of the topics in the Regular Science 9 course but will incorporate a more in depth investigation of the topics that requires a strong math background. This course is desired to give students a stronger background for future chemistry and physics courses.

**Biology**  
Grade 10  
Length of Course: Three trimesters

Biology is life. This course is designed to provide students with an opportunity to build an understanding of biological concepts. Concepts include chemistry of life, cells, genetics, evolution, biodiversity, and ecology. Students will engage in a variety of learning experiences including small group work, laboratory activities, films, lectures, and interactive technology. This course is designed to give students an in-depth understanding and appreciation of life.

**AP Biology**  
Grade 10 *(May be taken in Grade 11 and 12 for Elective Credit only)* (AP Level)  
Length of Course: Three trimesters

This course can be taken in place of Biology providing the prerequisites are met. The Advanced Placement Biology curriculum is equivalent to an Introductory Biology college course. This course is designed to be fast paced and in depth. Concepts studied in this course include chemistry of life, cell energetics, heredity, molecular genetics, evolution, diversity of organisms, structure and function of both plants and animals, and ecology. The primary emphasis of this course is to demonstrate an understanding of the above concepts in a laboratory setting. All students in AP Biology are encouraged to take the AP Exam in the spring for college credit.

**Chemistry**  
Grade 11, 12 (Level 1)  
Length of Course: Three trimesters  
Available Senior to Sophomore (S2S)

Chemistry is a specialized science dealing with the structure and composition of materials and the changes that occur during chemical reactions. The laboratory experiences compliment the concepts learned in class and promote writing and communication skills through detailed lab reports. This class contains introductory
college level rigor. Excellent reading skills and completion of Algebra II or currently enrolled in Algebra II is required.

**Practical Chemistry**
Grade 11, 12
Length of Course: Three trimesters
**Not NCAA Approved**

In this course, students will meet the requirements of the graduation standards while introducing students to basic chemistry concepts. Students will practice what they have learned through a variety of learning experiences. Concepts are connected to real life skills including math and scientific reading skills, and current events using an activity based format. This course is designed to prepare students for a technical college experience or a non-science four-year degree.

**AP Chemistry (Length: 1.5 class periods for full AP experience)**
Grade 11, 12 (AP Level)
(4.5 Credits)

Advanced Placement Chemistry is a college level chemistry course. This course is an in-depth study of the principles and concepts in chemistry. Content includes atomic structure, bonding, stoichiometry, thermodynamics, kinetics, acids/bases, quantitative analysis and organic chemistry. Students are required to demonstrate an understanding of these principles through application in a laboratory situation. All students in Advanced Placement Chemistry are encouraged to take the Advanced Placement Exam in the spring.

**Environmental Science**
Grade 11, 12
Length of Course: Three trimesters

If you enjoy the outdoors or have considered a career in biology, fisheries, forest management, wildlife management, environmental engineering, or other outdoor related careers, Environmental Science is the class for you! Environmental Science is the study of how humans interact with the environment. Students will be investigating various environmental issues impacting our environment. These will be explored through in-class activities, labs, and out-of-school trips for actual field experiences. Students will also be introduced to the biodiversity and conservation of Minnesota wildlife including identification of trees, wildflowers, waterfowl, mammals, song birds, reptiles, amphibians, and fish. The class ends with a trip to the Minnesota Zoo.

**Physics**
Grade 11, 12 (Level 1)
Length of Course: Three trimesters
Available Senior to Sophomore (S2S)
This class is designed to prepare students for rigorous college coursework. The laboratory will be used extensively to help you study matter, energy, and transformation of energy. A mathematics background is necessary to understand the concepts as well as the interpretation of physical information. Credit may be available at SCSU through the Senior to Sophomore program.

**Practical Physics**
Grade 11, 12
Length of Course: Three trimesters
Not NCAA Approved

Practical physics is a course designed to give students a hands-on experience in understanding matter, energy, and transformation of energy. This course is designed to prepare students for a technical college experience or non-science four-year degree.

**AP Physics 1 and 2 (Length: 1.5 class periods for full AP experience)**
Grade 11, 12 (AP Level)
(4.5 Credits)

Students in this class will study Physics 1: force, motion (including rotational dynamics), work, energy, power, waves, sound, electric circuits and Physics 2: thermodynamics, optics, electricity, and magnetism, are the main areas of study. AP Physics is a class for the highly motivated science and mathematics student interested in engineering, medicine, or such related fields. In addition, some calculus based physics will be discussed as some students may wish to take the calculus based AP Physics C: Mechanics test given in May of each year.

**Human Anatomy & Physiology**
(Senior to Sophomore at SCSU is optional within the course)
Grade 11, 12 (Level 1 or 2)
Length of Course: Three trimesters
Prerequisite: Advanced Biology or General Biology

This course is designed for those students who wish to obtain a better understanding of the anatomy and physiology of the human body. Physiology is the branch of biology in which students study and interpret the functions of cells, tissues, organs and systems. Anatomy is studied by the dissection of the fetal pig and other animal organs. Time will be spent in lab and in lecture discussion sessions. The student may receive three SCSU Senior to Sophomore credits for Human Biology 103 upon successful completion of the course.

**Health Career Exploration**
Grade 11 or 12 (Level 1)
Length of Course: Three trimesters
Prerequisite: General Biology (Grade A or B)
Personal Qualifications: Reliable Transportation, Student Application including two Letters of Recommendation; and Strong evidence of Personal Responsibility and Professionalism.
Recommended: Human Biology
Articulated Credit Opportunity: Medical Terminology through SCTCC

Topics include: Resume Writing, Job Applications, Interviewing and Employability Skills, First Aid/CPR/AED, Bio-ethics, Current Events in Health Care, Service Learning (at long-term care facilities), exposure to post-secondary education and training, and Medical Terminology. Over 35 health career professionals serve as guest speakers & mock interviewers throughout the course. The unique career exploration program provides invaluable opportunities for students to participate in two 25-hour job shadow experiences at one of St. Cloud Area's health care organizations. Please be advised there is a great deal of independent study in this course so personal responsibility and maturity is essential for success.

Health Internship
(Credit at SCTCC is granted for HLTH 1825, Medical Terminology, if the student meets the Articulated Credit Requirements)
Grade 11, 12
Length of Course: Three trimesters
Prerequisite: Human Anatomy & Physiology. Students must fill out an application, have 3 teacher recommendations and go through and interview process. This course MUST be taken with Health Careers.

The course is designed to provide students with two off campus internships in a medical career field which begins in mid-October. The course offers guest speakers from various medical careers, long-term care facility experience, tours of medical facilities and other opportunities focused on health careers. Students must be able to provide their own transportation.

SOCIAL STUDIES

Human Geography
Grade 9
Length of Course: Two trimesters

Human Geography is designed to develop the student’s understanding of the world community. Some topics of study include population, culture, political systems, agriculture, urbanization, economics, and the environment. 9th grade students will be required to take this two trimester course.

AP Human Geography
Grade 9, 10, 11, 12 (AP Level)
Length of Course: Three trimesters
Advanced Placement (AP) Human Geography is a challenging course that is meant to be the equivalent of an introductory college course. Solid reading and writing skills are necessary to handle the rigors of the course. Some topics of study include population and migration, agriculture, popular and folk culture, political systems, and urbanization.

**World History**  
Grade 10  
Length of Course: Three trimesters

This course is a broad survey of World History. Students will look at the movements, personalities and cultures of many different world civilizations. Students will engage in reading, writing and analysis of primary source documents. 10th grade students will be required to take this class all year.

**AP World History**  
Grade 10, 11, 12 (AP Level)  
Length of Course: Three trimesters

Advanced Placement (AP) World History is a challenging course that is meant to be the equivalent of a freshman college course and can earn the student college credit. It is a three trimester survey of World History. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing and interpretation of original documents.

**US History**  
Grade 11  
Length of Course: Three trimesters

Students will examine and analyze US History from exploration to the present day. The US History course will explore the social, political, cultural, and economic movements within US History. 11th grade students will be required to take this class all year.

**AP US History**  
Grade 11, 12 (AP Level)  
Length of Course: Three trimesters

Advanced Placement (AP) US History is a challenging course that is meant to be the equivalent of a freshman college course and can earn student college credit. It is a three-trimester survey of US History from the age of exploration and discovery to the present. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing, interpretation of original documents, and historiography.

**Economics**
Grade 12
Length of Course: One trimester

This course provides a meaningful introduction to economic processes and will help students become more productive decision makers in our economic system. Whether the future finds you reading the newspaper, running a business, or sitting in the Oval Office, you will be glad you studied Economics.

**AP Economics**
Grade 12 (AP Level)
Length of Course: Three trimesters

AP Economics is a college level, in-depth course that emphasizes the how’s and why’s of the U.S. economic system. It explores concepts in both microeconomics and macroeconomics. Students will be prepared to take Advanced Placement exams in both Microeconomics and Macroeconomics. Passing the exam with a 3-4 or 5 will earn college credit at many colleges and universities.

**Government**
Grade 12
Length of Course: One trimester

This course will provide students the knowledge and skills needed for informed, responsible participation in public life. It is the study of constitutional principles and the democratic foundation of our national, state, and local institutions. Students will also study the political processes and structures of government, grounded in the understanding of constitutional government under the rule of law. This course covers topics including the foundations of the American Political Systems, founding documents, the rights and responsibilities of citizens, and other forms of government past and present.

**AP Government: American and Comparative**
Grade 12 (AP Level)
Length of Course: Three trimesters

AP Government is a college level course covering the basic principles and theories of government. The course will prepare students for further study of government and related fields. Topics include the American Political System, the rights and responsibilities of citizens, and the comparison of other forms of government in Britain, Russia, China, Iran and Nigeria. Passing the American Government and comparative government exams in the spring with a 3, 4 or 5 will earn students college credit at many colleges and universities.

**SOCIAL STUDIES ELECTIVES**
Students have the opportunity to pursue a choice elective within social studies topics. While there is no limit to the number of social studies electives a student may select, any of the courses below will meet the trimester requirement for social studies choice elective.

**Psychology**  
Grade 11, 12  
Length of Course: One trimester

This course is designed to cover many of the basic concepts essential for an introductory Psychology course. The major focus of the course is to gain more knowledge of and interest in human behavior. Some of the topics in Psychology include: learning, personality, intelligence, memory, mental disorders, motivation and many others. If you are interested in finding out why people do the things they do, you will enjoy this course.

**AP Psychology**  
Grade 11, 12 (AP Level)  
Length of Course: Three trimesters

Advanced Placement (AP) Psychology is a challenging course that is meant to be the equivalent of an introductory college course in Psychology. Because students will prepare to take the AP Psychology exam for college credit in the spring, exams are emphasized in this course. The purpose of the AP course in Psychology is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major sub-fields within Psychology. They also learn about the methods psychologists use in their science and practice.

**Practical Law**  
Grade 11, 12  
Length of Course: One trimester

Practical Law provides an understanding of law and the legal system while improving students’ understanding of the fundamental principles and values underlying our Constitution. In addition, this course will promote awareness of current issues and controversies relating to law and the legal system, and will improve understanding of the roles that law, lawyers, law enforcement officers, and the legal system play in our society. Lastly, this course will provide exposure to the many vocational opportunities that exists within the legal system.

**Sociology**  
Grade 11, 12  
Length of Course: One trimester

Sociology is the study of human society and social behavior (human relationships). The tools of sociological inquiry are applied to the study of contemporary social issues and historical events. Through this course,
students will learn to appreciate social diversity and become more open to new ideas, life styles, and philosophies.

**History Through Film (Reel History)**

Grade 11, 12

Length of Course: One trimester. This class may be taken twice. The trimesters will be labeled A and B. They may be taken in any order.

History Through Film examines history as depicted in Hollywood films. Films will be analyzed and evaluated in terms of legitimacy as a historical source. Students view movies on various topics and participate in discussions, explore evidence from more traditional sources such as articles, film reviews and critical commentaries.

**Ethnic Studies**

Grade 11, 12

Length of Course: One trimester

This Ethnic Studies course is designed to raise questions about the ways race/racism, cultures within the United States, sexual gender, language, religion, disabilities, economics, and ethnic identity shape our experiences. Why do our differences matter to the extent that they do? How do our personal experiences among these issues relate to the structure of our society? What level of understanding would it take to overcome our discomfort of differences? How have concerns for social justice and equity shaped the field of Ethnic Studies? In this course we will be reading a variety of academic and cultural text, which illustrate the interdisciplinary of the work in Ethnic Studies. We will explore these issues through readings, discussions, lectures, films, short stories, music, and presenters. This course is designed to be an introductory course and have students begin to think critically about these topics.

**SPECIAL EDUCATION**

An Individualized Education Planning (IEP) meeting involving parent(s)/guardian(s), the student and relevant school staff is conducted annually for all students with disabilities. The IEP team determines the courses, transition needs and graduation requirements for each student with disabilities.

Most students with disabilities will participate in general education classes and progress toward the standard requirements for graduation. Most students will also participate in district and statewide assessments and will be offered appropriate testing accommodations.

Students with more significant developmental, academic or behavioral needs may participate with modified or alternative curriculum and graduation requirements defined by their EIP team. Some students will work toward individual standards. Other students who are exempt from district and/or statewide assessments will
participate in alternate assessment. The type and amount of special education support a student receives is determined by the student’s IEP.

TECHNOLOGY EDUCATION

ENGINEERING: PROJECT LEAD THE WAY (PLTW)

Engineering: PLTW Intro to Engineering & Design (IED)
Grade 9, 10, 11, 12 (Level 1)
Length of Course: Three trimesters
Meets the art standard
ITEA Standards 5, 8, 10, 11, and 20
Fee: $25.00

If you are considering a career in engineering, design, architecture, or any other related field, this course is a must. The class utilizes AutoDesk Inventor, 3-D modeling CAD software, to teach problem solving skills. The curriculum emphasizes communication skills with presentations and teamwork. Activities, projects, and problem-based learning are all utilized. This class applies math and science and will give you a great skill set and experience in preparation for a successful career in engineering. College credit may be available upon successful completion of state exam.

Engineering – PLTW Aerospace Engineering (AE)
Grade 10, 11, 12 (Level 1)
Length of Course: Three trimesters
ITEA Standards 5, 8, 10, 11, and 20
Fee: $35.00 lab fee

This one year course propels students’ learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles.

Engineering – PLTW Civil Engineering & Architecture (CEA)
Grade 10, 11, 12 (Level 1)
Length of Course: Three trimesters
Completion of Introduction to Engineering Design recommended.
Meets the art standard
ITEA Standards 5, 8, 10, 11, and 20
Fee: $25.00

This overview of the fields of civil engineering and architecture emphasizes the inter-relationship and mutual dependence of both fields. Students use state-of-the-art software to solve real world problems and apply knowledge to hands-on-projects and activities. By developing and implementing plans for a playground/park or vacation home for example, students experience firsthand the job responsibilities of architects and civil engineers. By the end of the course, students are able to give a complete presentation to the client including three-dimensional renderings of buildings and improvements, zoning and ordinance constraints, infrastructure requirements, and other essential project plans. College credit may be available upon successful completion of state exam.

Engineering – PLTW Engineering Design & Development (EDD)
Grade 11, 12
Length of Course: Three trimesters
ITEA Standards 5, 8, 10, 11, and 20

The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards. Students who succeed in developing a real solution could lead to opportunities of statewide and national recognition. College credit may be available upon successful completion of state exam.

MULTIMEDIA TECHNOLOGY
**Introduction to Photo**
Grade 9, 10, 11, 12 (Level 2)
Length of Course: One trimester
Required for Advanced Photo
Standard: Media Arts Creation & Performance
ITEA Standards 3, 11, 12, and 17
Fee: $35.00 lab fee

In this one trimester course, students learn about the art and craft of great photography. Students will hone their professional eye to capture the greatest moments in nearly every situation and setting imaginable using smartphones, DSLR cameras, and Adobe Photoshop software. Taking students both inside the photographer's studio and out into the field, this course is a chance to learn, in a way anyone can grasp, the basic insights and hidden secrets of photography.

**Advanced Photo**
Grade 10, 11, 12 (Level 2)
Length of Course: One trimester
Prerequisite: Introduction to Photo
**Can be repeated**
Standard: Media Arts Creation & Performance
ITEA Standards 3, 11, 12, and 17
Fee: $35.00 lab fee

In this one trimester advanced course, students continue honing their art and craft of great photography. Students will use smartphones, digital compact cameras, DSLR cameras, and Adobe Photoshop software to create professional photographs.

**Introduction to Video**
Grade 9, 10, 11, 12 (Level 2)
Length of Course: One trimester
Required for Advanced Video
Standard: Media Arts Creation & Performance
ITEA Standards 3, 11, 12, and 17
Fee: $35.00 lab fee

In this one trimester course, students will produce digital videos. Students will learn the concepts of storyboarding, journalistic writing, cinematography, camera work, graphics, and editing while using smartphones, HD video cameras, GoPro Cameras and Adobe Premiere Elements software. This course is a chance to learn, in a way anyone can grasp, the basic insights and hidden secrets of videography.

**Advanced Video**
Grade 10, 11, 12 (Level 2)
Length of Course: One trimester  
Prerequisite: Introduction to Video  
**Can be repeated**  
Standard: Media Arts Creation & Performance  
ITEA Standards 3, 11, 12, and 17  
Fee: $35.00 lab fee

In this one trimester advanced course, students will produce high quality digital videos. Students will apply concepts of storyboarding, journalistic writing, cinematography, camera work, graphics, and editing while using smartphones, HD video cameras, GoPro Cameras and Adobe Premiere Elements software.

**Introduction to Drafting**  
Grade 9,10,11,12  
Length of Course: One Trimester  
ITEA Standards 3,11,12,17  
Introduction to Drafting is an introductory course for those who are interested in Computer Drafting but may not be ready for the Project Lead the Way path. Emphasis is placed on geometric construction, fundamentals of computer-aided drafting, and multi view drawings. Creating real working 3D Models in the Inventor Software and Revit Software. Mechanical and Architectural Drafting will be touched on, to give students two possible pathways. Students will also gain real world application with the 3D Printers.

**WOODS and CONSTRUCTION**

**Woods: Introduction**  
Grade 9, 10, 11, 12 (Level 2)  
Length of Course: One trimester  
Required for all other Woods Classes  
ITEA Standards 3, 6, 19, and 20  
Fee: $35.00

This introductory course will focus on the safe and correct use of woodworking tools and machines. The students will design and build projects to gain the confidence and skill needed to safely use power and hand tools. Examples of projects built are: toys, shelves, CD boxes, chairs, night stands and folding tables. Tech Prep Certificates are available which allow the students the cost of two credits at SCTCC free.

**Woods: Construction**  
Grade 10, 11, 12 (Level 2)  
Length of Course: One trimester (2 Hour Block)  
Prerequisite: Woods Introduction  
ITEA Standards 8, 9, 10, 11, 13, 19

In this course students have built storage sheds, playhouses, deer stands, or fish houses from the ground up. The students will learn about the aspects of construction from estimating, drawing, to the actual framing and
finishing. Students will use laser levels and transits to learn how to layout and square up a building. The students will be working outside on projects and also learn about concrete principles. Basic wiring, plumbing, and heating systems are explored in this course. Several field trips are taken to actual construction sites.

**Woods: BUILDING TRADES**
Grade 11, 12 (Level 2)
Length of Course: Three trimesters (1.5 hour block)
Prerequisite: Woods Introduction
Can be repeated
(6 Credits)
ITEA Standards 8, 9, 10, 11, 13, 19
Fee: $35.00

Description: This vocational class covers all aspects of light frame construction while building a house. Topics include: Site preparation, framing, roofing, sheathing, window and door installation, interior and exterior finishing, etc.

**Woods: Project Design Woods**
Grade 10, 11, 12 (Level 2)
Length of Course: Two trimesters
Prerequisite: Woods Introduction
Can be repeated
ITEA Standards 8, 10, 11, 19, and 20
Fee: to be determined for individual projects

This course will expand from Intro to Woods with a strong emphasis in cabinetry. The students will use advanced construction methods as used in industry. The students will design and build custom projects of their choice with the instructor permission. Projects might include hutches, dressers, tables, gun cabinets, night stands and any other wooden furniture. Tech Prep Certificates are available which allow the students the cost of two credits at SCTCC free. A class fee will be charged as well as material fee for individual projects.

**METAL MANUFACTURING**

**Metals – Introduction (Welding)**
Grade 9, 10, 11, 12 (Level 2)
Length of Course: One trimester
Required for Metals Advanced
Can be repeated
ITEA Standards 8, 10, and 12
Fee: $30.00
In this class students will study both gas and electric processes. Gas welding consists of fastening both light and heavy gauge metal together using the heat given off by the oxygen-acetylene flame. In electric or arc welding, each student will complete welds using both AC and DC welders.

**Metals – Advanced (Welding II)**
Grade 10, 11, 12 (Level 2)
Length of Course: One trimester
Prerequisite: Metals Introduction (Welding)
**Can be repeated**
ITEA Standards 8, 9, 10, 12, and 20
Fee: $30.00

During this course, the student will learn different positions required to weld Aluminum in different positions using the spool gun. Student will also learn techniques to weld mild steel in a variety of positions. The student will learn to read blueprints and sketches, use templates, and identify common metals by color, weight, appearance and using the spark test. After successful completion of the required welding assignments, the student may qualify for competition in the regional welding contest. After completing the basic requirements for the course, the student will have a choice of projects to build. Upon successful completion of the course and final exam, the student may be issued a Tech Prep certificate, which will allow the student to by-pass certain courses at St. Cloud Technical College. This class is offered alternating years.

**TRANSPORTATION TECHNOLOGY**

**Transportation – Air and Space (non-PLTW)**
Grade 9, 10, 11, 12 (Level 2)
Length of Course: One trimester
ITEA Standards 5, 8, 10, 11, and 20
Fee: $35.00

This one trimester course will help students understand flight and space technologies. Students will understand the history of aerospace and design, develop, construct, and test aircraft and spacecraft through hands-on projects.

**Transportation – Automotive**
Grade 10, 11, 12 (Level 2)
Length of Course: One trimester
Required for Advanced Automotive & Discovery Academy
ITEA Standards 4, 5, 6, and 18
The Auto course is designed for the car owner or driver. It also serves as a prerequisite for Auto II. You will gain an understanding of how the car works and all the basic systems that affect the car. A “hands on” approach will be used in the instruction. During the course you will develop basic skills in car repair, maintenance, tools and proper auto terminology. Emergency troubleshooting is also included in this course along with how to buy a used car.

**Transportation – Advanced Automotive**

Grade 10, 11, 12 (Level 2)  
Length of Course: One trimester  
Prerequisite: Automotive  
Offered at Apollo Period 6 or 7  
ITEA Standards 4, 5, 6, and 18

This course covers all the major systems of modern vehicles and general maintenance required. We will cover procedures for servicing vehicles, shop safety, and the use of tools and equipment. Lab activities will include diagnosis and repair of customer vehicle and also some donated vehicles. There are four main areas of study: Brakes, Electrical, Suspension, Engine performance.

**ROBOTICS**

**Robotics – Introduction**

Grade 9, 10, 11, 12 (Level 2)  
Length of Course: One Trimester  
Required for Advanced Robotics  
ITEA Standards 1, 3, 5, and 7  
Fee: $25.00

This course will introduce students to the world of robotics. Students will explore technologies related to robotic structure, power, mobility, communication, computer, sensory, and tooling systems. Students will explore the key aspects of robot technology through hands-on projects.

**Robotics – Advanced**

Grade 10, 11, 12 (Level 2)  
Length of Course: One Trimester  
Prerequisite: Robotics Introduction  
**Can be repeated**  
ITEA Standards 1, 3, 5, and 7  
Fee: $25.00

Fee: $15.00
Students will problem solve by designing and constructing VEX robots for many hands-on challenges including obstacle courses, battle bots, and the Mars Simulation Missions. Students will explore the key aspects of robotic technology.

**PROJECT LEAD THE WAY**

**ENGINEERING TECHNOLOGY**

**Aerospace Engineering**
Grade 10, 11, 12 (Level 1)
Length of Course: Three trimesters
ITEA Standards 5, 8, 10, 11, and 20
Fee: $35.00

Students will understand the design, development, construction, testing, science and technology of aircraft and spacecraft through inquiry-based methods. Students will value the science behind forces and physical properties of aircraft, rockets, and robotics through project-based learning. **College credit may be available upon successful completion of state exam.**

**Introduction to Engineering & Design**
Grade 9, 10, 11, 12 (Level 1)
Length of Course: Three trimesters
**Meets the art standard**
ITEA Standards 5, 8, 10, 11, and 20
Fee: $25.00

If you are considering a career in engineering, design, architecture, or any other related field, this course is a must. The class utilizes AutoDesk Inventor, 3-D modeling CAD software, to teach problem solving skills. The curriculum emphasizes communication skills with presentations and teamwork. Activities, projects, and problem-based learning are all utilized. This class applies math and science and will give you a great skill set and experience in preparation for a successful career in engineering. **College credit may be available upon successful completion of state exam.**

**Civil Engineering and Architecture**
Grade 10, 11, 12 (Level 1)
Length of Course: Three trimesters
**Meets the art standard**
This overview of the fields of civil engineering and architecture emphasizes the inter-relationship and mutual
dependence of both fields. Students use state-of-the-art software to solve real world problems and apply
knowledge to hands-on-projects and activities. By developing and implementing plans for a playground/park or
vacation home for example, students experience firsthand the job responsibilities of architects and civil
engineers. By the end of the course, students are able to give a complete presentation to the client including
three-dimensional renderings of buildings and improvements, zoning and ordinance constraints, infrastructure
requirements, and other essential project plans. College credit may be available upon successful completion
of state exam.

MEDICAL TECHNOLOGY

Principles of the Biomedical Sciences (PBS)
Grade 10, 11, 12
Length of Course: Three trimesters

Students investigate various health conditions including heart disease, diabetes, sickle-cell disease,
hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional
person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life.
The activities and projects introduce students to human physiology, medicine, and research processes. This
course provides an overview of all the courses in the Biomedical Sciences program and lays the scientific
foundation for subsequent courses. This course will take place at Tech High School.

First Responder
Grade 10, 11, 12
Length of Course: Two trimesters

Students will be enabled to apply the fundamental skills and knowledge required to function as an entry level
First Responder. Emphasis will be placed on skills needed for the recognition of, and emergency care of sick
or injured people, utilizing basic EMS equipment and assisting Emergency Medical Technicians once they
have arrived. This course is designed for non-ambulance personnel such as law enforcement, fire, rescue,
DNR, industry, and private citizens who are involved in pre-hospital emergency care and are first on the scene
in an emergency. This class will take place at Tech High School.

Health Career Exploration
Grade 11, 12 (Level 1)
Length of Course: Three trimesters
Prerequisite: General Biology (Grade A or B)
Personal Qualifications: Reliable Transportation, Student Application including two Letters of
Recommendation; and Strong evidence of Personal Responsibility and Professionalism.
Recommended: Human Biology
Articulated Credit Opportunity: Medical Terminology through SCTCC

Topics include: Resume Writing, Job Applications, Interviewing and Employability Skills, First Aid/CPR/AED, Bio-ethics, Current Events in Health Care, Service Learning (at long-term care facilities), exposure to post-secondary education and training, and Medical Terminology. Over 35 health career professionals serve as guest speakers & mock interviewers throughout the course. The unique career exploration program provides invaluable opportunities for students to participate in two 25-hour job shadow experiences at one of St. Cloud Area's health care organizations. Please be advised there is a great deal of independent study in this course so personal responsibility and maturity is essential for success.

DISCOVERY ACADEMY

AUTOMOTIVE

Brakes – Discovery Academy
Grade 11, 12 (Level 2) (Fall semester)
Length of Course: Three trimesters
Offered at Apollo

A specific technical course designed to teach the principles of automotive hydraulic brake systems. This course builds on the essential laws of physics, motion, forces, hydraulics, thermodynamics, and chemical reactions and how these principles apply to the operation and diagnosis of automotive brake systems. This class will be held at Apollo High School.

Electrical/Electronic Systems – Discovery Academy
Grade 11, 12 (Level 2) (Spring semester)
Length of Course: Three trimesters
Offered at Apollo

A specific technical course designed to teach the principles of electricity and electronics and apply them to automotive systems. This course builds on the essential concepts and measurement of electrical parameters, such as voltage, current, resistance, power, magnetism, electromagnetism, and magnetic induction that the student has learned in earlier physics courses. This class will take place at Apollo High School.

Engine Performance – Discovery Academy
Grade 11, 12 (Level 2) (Spring semester)
Length of Course: Three trimesters
Offered at Apollo

A specific technical course designed to teach the principles of automotive engine performance and diagnosis. This course builds on the essential laws of physics, thermodynamics, and chemical reactions and teaches how
these principles apply to the operation and diagnosis of engine performance systems. This class will take place at Apollo High School.

**Steering and Suspension – Discovery Academy**
Grade 11, 12 (Level 2) (Fall semester)
Length of Course: Three trimesters
**Offered at Apollo**

A specific technical course to teach the principles of automotive suspension/steering systems and 4-wheel suspension alignment. This course builds on the essential concepts of geometry, gear reduction, hydraulics laws, and characteristics of liquids and how they apply to the operation and diagnosis of power steering and suspension systems. This class will take place at Apollo High School.

**WORLD LANGUAGES**

World language study develops awareness of another culture, which is valuable in any area of employment or college study. College entrance requirements vary from one college to another, with 2 being the most typical and three becoming more common. Continuing to study a world language through the third or fourth year can increase your likelihood of being able to test out of college classes or test into higher level ones and receive retro credits. This helps save tuition costs, like AP and post-secondary courses do.

**AMERICAN SIGN LANGUAGE**

**American Sign Language I**
Grade 9, 10, 11, 12 (Level 1)
Length of Course: Three trimesters

American Sign Language is a visual, gesture language used by members of the Deaf Community in the United States. ASL I study incorporates study of facial expressions, and body language. In ASL I, you will learn the basic skills necessary to communicate and interact within the Deaf Community. The material presented includes beginning ASL linguistics, Deaf Culture and exposure to Deaf Community members. Active participation is required.

**American Sign Language II**
Grade 10, 11, 12 (Level 1)
Length of Course: Three trimesters
Prerequisite: Minimum grade of a C or above in both semesters of ASL I.

ASL II students will learn new linguistic rules of ASL and more Deaf Culture. Focus is on classifier use in specific areas such as food, homes, and beginning storytelling. Work on pluralization of ASL nouns is presented, as well as opportunities to create ASL poetry. Active participation is required.
American Sign Language III or IV
Grade 10, 11, 12 (Level 1)
Length of Course: Three trimesters
Prerequisite: Minimum grade of a C or above in both semesters of ASL II.

ASL III students will be exposed to a variety of deaf, native signers. Students will do more real life projects related to Deaf culture/community. Emphasized are appropriate classifier use, conditional clauses, and ASL storytelling. Sign Language III and IV will (possibly) be offered together (depending on enrollment numbers). Units of vocabulary study will alternate each year.

FRENCH

French I
Grade 9, 10, 11, 12 (Level 1)
Length of Course: Three trimesters

Thinking about taking French class? French is the official language of over 40 countries and territories and is found on every continent. In French I we will begin speaking, writing, listening, and reading in French in the present tense. There is an emphasis on vocabulary and basic conversational expressions, enhanced through the use of stories, videos, skits, songs, games, jokes, and cultural expressions. Attention! If you want to graduate from Technical High School with world language skills high enough to give you access to university entrance requirements, you are encouraged to enroll your freshman or sophomore year. Students will have the opportunity to take a field trip to a French immersion camp.

French II
Grade 10, 11, 12 (Level 1)
Length of Course: Three trimesters
Prerequisite: Minimum grade of C in both semesters of French I.

In French II, we will expand on the conversational skills developed in French I and will be introduced to the past and future tenses. Students will do a variety of activities including projects, literature, art, food, and group activities as we continue to study the French language, cultures, and slang from every continent. Students will have the opportunity to travel to France and take a field trip to a French immersion camp.

French III
Grade 10, 11, 12 (Level 1)
Length of Course: Three trimesters
Prerequisite: Minimum grade of C in both semesters of French II. Availability of course based on student enrollment numbers.

Finished taking two levels of French and considering a third? Becoming fluent in a foreign language can help you in just about any field. In French III, we will continue enhancing our conversational skills while increasing
proficiency in the past, present, and future tenses so as to be able to communicate with native speakers. French III will be conducted almost entirely in French and will place a strong emphasis on various cultural and technological content including photography, art, technology, history, literature, music, and modern civilization. Students will have the opportunity to travel to France and take a field trip to a French immersion camp.

**French IV**  
Grades 11, 12 (Level 1)  
Length of Course: Three trimesters  
Prerequisite: Minimum grade of C in both semesters of French III. Availability of course based on student enrollment.

Continue improving your French skills in French IV, where we will strive to increase our French language proficiency by actively communicating and applying knowledge to real-life situations. Students who complete level IV should feel confident in their reading, writing, listening, and speaking capabilities. We will learn in detail about culture, government, social issues, and current events in French-speaking nations. Students will have the opportunity to travel to France and take a field trip to a French immersion camp.

**GERMAN**

**German I**  
Grade 9, 10, 11, 12 (Level 1)  
Length of Course: Three trimesters

*Achtung!* If you want to graduate from Technical High School with world language skills high enough to give you access to university entrance requirements, consider enrolling in German, the native language of the third largest economy in the world. The skills of understanding, speaking, reading and writing German are yours if you are willing to work for them. Vocabulary and conversational expressions are enhanced by the use of stories, skits, videos, games, etc. Students may have the opportunity to host a visitor and spend three weeks in Menden, Germany as a participant in the GAPP exchange program.

**German II**  
Grade 9, 10, 11, 12 (Level 1)  
Length of Course: Three trimesters  
Prerequisite: Minimum grade of C in both semesters of German I.

Continue the work you began in German I to gain proficiency in listening, speaking, reading and writing in German. You will learn more basic vocabulary and grammar and apply your language skills to real-life situations. Cultural information will help you understand and appreciate German-speaking people and countries. Students may have the opportunity to host a visitor and spend three weeks in Menden, Germany as a participant in the GAPP exchange program. A field trip may also be offered to all German II students.
German III or IV
Grade 10, 11, 12 (Level 1)
Length of Course: Three trimesters
Prerequisite: Minimum grade of C in both semesters of German II / III.

Students make the transition from beginner to intermediate-level German speakers. We continue to build on your language skills with a focus on historical, geographic, literary and cultural materials. The class is conducted almost entirely in German.

German III and IV could be offered together depending on enrollment numbers. In that case, units of study would alternate each year.

SPANISH

Spanish I
Grade 9, 10, 11, 12 (Level 1)
Length of Course: Three trimesters

¡Atención! ¡Atención! If you want to graduate from Tech High School with proficient Spanish skills and meet most college requirements, you’re encouraged to enroll as a freshman and continue in the language through senior year. The skills of understanding, speaking, reading, and writing in Spanish are yours, if you’re willing to work for them. Begin with the basics, like the alphabet, numbers, greetings, and end with everything you’ll need to communicate in a tourist market abroad!

Spanish II
Grade 9, 10, 11, 12 (Level 1)
Length of Course: Three trimesters
Prerequisite: Minimum grade of “C” in both semesters of previous level.

Continue the journey towards proficiency in Spanish. Review and expand upon your Spanish I knowledge of reading, writing, speaking, and listening. You will learn to communicate your experiences in both the past and present on a variety of topics. Upon completing the second level, students will have a good foundation for future language study. Students continuing on to Spanish III will be eligible to travel on study abroad programs to Spanish speaking countries!

Spanish III
Grade 10, 11, 12 (Level 1)
Length of Course: Three trimesters
Prerequisite: Minimum grade of “C” in both semesters of previous level.

This is the year for you to make the transition from a beginning to intermediate level Spanish speaker. Students will continue to build and fine tune their skills developed in levels I and II. The skills in reading, writing,
listening, and especially speaking will continue to be stressed as you participate in Spanish conversations, narrate and read short stories, and interpret authentic materials. The curriculum includes culture studies and other themes like fashion, medicine, and travel. Students enrolled in Spanish III may take a field trip and will be eligible to travel on study abroad programs to Spanish speaking countries! For students who qualify, credit is available at SCSU through the Senior to Sophomore program for the SCSU course SPAN 102.

**Spanish IV**
Grade 10, 11, 12 (Level 1)
Length of Course: Three trimesters
Prerequisite: Minimum grade of “C” in both semesters of previous level.

Improve your skills as an intermediate-level Spanish-speaker. In this course you will work towards perfecting your skills of listening, reading, speaking and writing in Spanish. Class activities will expand on your knowledge of vocabulary and grammar concepts while providing opportunities to work with authentic materials and apply language skills to real-life situations. Cultural insights and information will help you to understand and appreciate Spanish-speaking people and cultures. After the fourth level of study you are very well prepared for college level language classes and may be able to test into more advanced courses! Students enrolled in Spanish IV may take a field trip and will be eligible to travel on study abroad programs to Spanish speaking countries! For students who qualify, credit is available at SCSU through the Senior to Sophomore program for the SCSU course SPAN 201.

**AP Spanish (Spanish V)**
Grade 11, 12 (AP Level)
Length of Course: Three trimesters
Prerequisite: Spanish I – Spanish IV. Minimum grade of “C” in both semesters of Spanish IV.

An AP Spanish Language course is comparable to a 300 level (5th and 6th semester) college Spanish language course. Emphasizing the use of Spanish for active communication, it encompasses speaking skills, reading comprehension, grammar, and composition. In this course, special emphasis is placed on the use of authentic source materials and the integration of language skills. Therefore, you will receive extensive training in combining listening and reading, with writing and speaking skills in order to demonstrate understanding of authentic Spanish-language source materials. Finish the year by taking the AP Spanish Language exam, which may earn you college credit.

Students enrolled in AP Spanish may take a field trip and will be eligible to travel on study abroad programs to Spanish speaking countries!
SPECIAL PROGRAMS

Elementary Teacher Assistant
Grade 12
Two hour block (6 Credits)

This program is designed as an opportunity for students to assist in an elementary classroom for a full year under the supervision of an elementary teacher. Students will gain experience and develop skills in working with children. This course is ideal for students who are interested in working with children as a career choice. Each student will be assigned to an elementary school for two hours a day, earning two credits for each trimester.

Guidance Office Aide
Grade 11, 12
Length of Course: One trimester

This program is available for students wishing to improve their office skills. Duties include filing, writing passes, collating and tasks needed by guidance staff. Prior approval must be given before you can register. A grade of S/U will be given for this course.

Learning Resource Center Assistant
Grade 11, 12
Length of Course: One trimester

This program is available to students who wish to develop work habits important in the job market. Through a variety of tasks in the Resource Center which includes such things as preparing, displaying, mending, and checking materials in and out, typing, operating and maintaining equipment, learning the importance of being on time, following directions, working with a variety of people, organizing, and following through on a given task. You must get prior approval from the person who will supervise you. A grade of S/U will be given for this course.

Media Assistant
Grade 11, 12 (Level 1)
Length of Course: One trimester

This program is available for students wishing to improve their audio-visual, computer or library skills. Duties include Xeroxing, filing, book & reference check out, and other library tasks. The media director must give prior approval before you can register. A grade of S/U will be given for this course.

Peer Tutoring
Grade 11, 12
Length of Course: One trimester
Reach-out and help a friend. Tutors provide an individualized learning situation for other students in grades 9-12. The course includes training in tutorial skills and periodic group meetings with the coordinator. Tutors may also be involved in using their ingenuity in preparing tutorial materials. Tutoring sessions are supervised in the learning resource center. Good tutors must desire to work with other students by sharing study skills; having a positive caring attitude; and desire to want to help others feel good about themselves. School service credits may be earned in the area of peer tutoring. Peer tutors need to have a strong academic background and have the motivation to be an effective tutor. Students are expected to work one class period a day, five days a week for an entire semester in order to earn one credit. Students who are interested in becoming a peer tutor will need to complete an application in order to be considered for the program. A letter grade will be given for this course.

**Student Services Office Aide**  
Grade 11, 12  
Length of Course: One trimester  
This program is available for student wishing to improve their practical work experiences. Office duties include filing; writing passes, delivering passes to students and other duties as assigned by the student affairs office staff. The assigned work is done under the supervision of the SAO staff. Prior approval must be given before you can register. A grade of S/U will be given for this course.

**Student Instructors**  
Grade 11, 12  
Length of Course: One trimester  
This program is available for students wishing to improve their skills in a specific subject area by assisting teachers and students through practical work experience. The work assigned will always be under the supervision of the host teacher and prior approval from that teacher must be given before you can register. A grade of S/U will be given for this course.