

**UTILIZE THE OUTLINE ON THE LEFT HAND SIDE TO EASILY NAVIGATE THE DOCUMENT.**

Dear Students and Parents/Guardians,

Please take time to review the registration information included in this handbook to make appropriate plans regarding a student's course of study. We encourage our students to think about plans after graduation so that they can take advantage of all that STMA High School can provide in preparing them for their next steps. We encourage parents/guardians to discuss career options with their students as courses of study are considered. As the workforce changes, it is imperative that students explore courses that are compatible with their career aspirations, abilities and interests.

Course requirements are indicated by grade, with a brief course description included by various departments. In addition, some career planning suggestions are given with regard to college prep, vocational education, and the world of work. Further, a variety of supplemental courses are offered through STMA Online and identified as such.

Key Dates are included below:

- January 13 - Registration materials will be distributed
- January 18 - Teacher training through google meet by grade level
- January 20 - Registration tutorial videos for students and parents
- January 20 - Registration opens online in StudentVue
- January 21/22 - Live Q and A with counselors OPEN to all parents/students (9-11)
- February 1 - Registration window closes

Please take time to consider your courses of study carefully. Schedules can be adjusted on a limited basis before school begins in the fall, but most decisions need to be made during registration.

If you have any questions, please contact our Counseling office at 763 - 497 - 6525.

Sincerely,

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**BEFORE YOU CONTINUE...**

Keep in mind you are about to make some important decisions concerning your future. Planning a high school program to meet your individual needs and interests is a process involving many factors and choices. In the pages ahead, you will find descriptions of a wide variety of classes that will prepare you for future endeavors. The choices you make about your classes will affect those endeavors. As a result, we offer the following suggestions:

- Discuss your plans with your parents and teachers as they can provide valuable insight.
- Select courses that will meet STMA graduation requirements. That may include registering to retake requirements from any previous years that you have not passed.
- Select courses that support your future educational and career goals. Choose courses that you are interested in, or will help you strengthen your skills in the areas that challenge you.
- Consult your counselor to assist you in planning an effective overall educational program.

**SCHEDULE CHANGE POLICY**

The high school master schedule and staffing are determined by the registration process. For this reason, requests for schedule changes after registration become difficult to accommodate. If a student should require a schedule change there is a schedule change request form located in the guidance office. **Any requests for a schedule change must be submitted to the guidance department prior to the start of the school year. Requests will be reviewed by the guidance department and administration. Scheduling of students in required courses will be of highest priority.**

<p><b>Requests can <u>only</u> be made for the following reasons:</b></p> <ul style="list-style-type: none"> <li>● The student does not have the prerequisite(s)</li> <li>● The student failed a class</li> <li>● There is an obvious error (two classes at the same time)</li> <li>● To add a class that is needed to graduate</li> <li>● The schedule is unbalanced</li> </ul>	<p><b>Schedule changes <u>will not</u> be made for:</b></p> <ul style="list-style-type: none"> <li>● Request a specific teacher / to switch sections for the same course to get a different teacher</li> <li>● Request a specific trimester / to switch sections of the same course to change trimester</li> <li>● Change lunch periods</li> <li>● Have a class with a friend</li> <li>● Leave to attend non-school sanctioned occupational activity</li> </ul>
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The administration reserves the right to make changes in schedules when it is determined to be in the best interest of the overall school program. Course availability is subject to minimum course enrollment.

**Dropping an STMA course to take an online course must happen within the first ten days of the trimester to avoid earning an “F” in the STMA course.**

## **GRADUATION REQUIREMENTS**

### **1) Completion of 55 credits:**

- 8 – English
- 8 – Social
- 6 – Math
- 6 – Science
- 2 – Fine Arts
- 2 – Health
- 2 – Phy. Ed.
- 21 – Electives from any department

### **2) Meet College and Career Readiness Requirements**

### **3) Completion of four hours of community service each year in grades 9-12, 16 total hours**

## **COMMUNITY SERVICE**

Every student at St. Michael-Albertville must complete four hours of community service each year they attend the school. It is encouraged that students complete more than four hours a year – but no more than four hours will be accepted per year. Also, we want the students to diversify their hours; therefore, the four hours must involve at least two different activities. **STUDENTS WHO DO NOT COMPLETE THE SIXTEEN HOURS BY THE END OF THEIR SENIOR YEAR WILL NOT GRADUATE FROM ST. MICHAEL-ALBERTVILLE REGARDLESS OF OTHER CREDITS EARNED. THE SCHOOL BOARD HAS APPROVED THIS REQUIREMENT.**

### **COMMUNITY SERVICE IS DEFINED AS:**

Work done for others that is not for pay, not for a class grade, and not for family members. If the student is required to do community service for a religious organization, he/she may use the same hours for the school.

Examples of community service activities that will be accepted are:

- Aid to senior citizens (this does not include family members)
- Aid to neighbors who cannot otherwise perform the task due to a disability
- Church activities
- Coaching activities (volunteer)
- Council meetings (volunteer)

**Please see your homeroom advisor or go to the High School Website for the pre-approval form.**

## **ADDITIONAL STUDENT OPPORTUNITIES/PROGRAMS**

**TO INQUIRE ABOUT ANY OF THE FOLLOWING, PLEASE SEE YOUR SCHOOL COUNSELOR**

### **S.A.I.L. (Students Achieving through Individualized Learning)**

**Grade: 10-12**

S.A.I.L. is a course designed to provide academically at-risk students with individualized help with core classes. Student progress is monitored closely by the instructor. In addition, students work on problem solving, social skills, goal setting and study skills. Students are referred to S.A.I.L. by a counselor/teacher. This course is designed to be taken no more than 2 times through-out a student's high school career.

### **FRESHMEN ACADEMY**

**Grade: 9**

Freshmen Academy is a year-long homework, study-skills, and life choices class designed to help students transition into high school. Class sizes are small to allow more student/teacher contact and help in coursework from other classes. Students receive a pass/fail grade based on daily preparation, work ethic, and participation in class. Students are referred by middle school staff.

### **TECHNICAL AND CAREER OPPORTUNITIES (see pages 61-65)**

**Grade: 11-12**

Minnesota boasts one of the finest technical and community college systems in the nation. Students may choose to get a head start on their career training by taking technical classes that offer more "hands-on" career orientated instruction. Juniors and seniors may take courses through the Wright Technical Center (WTC) vocational program. Students may also enroll in technical courses offered at the high school. Special arrangements are made to bus students to and from the WTC for vocational classes.

### **ON THE JOB TRAINING (OJT) (see page 64)**

**Grade: 12**

This is a program offered to high school seniors who are interested in exploring careers by combining classroom instruction with on-the-job training. Students are released from the high school after 3<sup>rd</sup> period to attend an employment-related class and employment. Students must work a minimum of ten hours a week, during the time they are released from class. Students choosing to do OJT must have earned 43 credits by the end of their junior year.

### **PROJECT LEAD THE WAY (see page 45)**

**Grade: 9-12**

Project Lead the Way (PLTW) is a four year sequence course which, when combined with traditional mathematics and science courses, introduces students to the scope, rigor, and discipline of engineering prior to entering college. PLTW's activities-based curricula makes math and science relevant for students and prepares students for engineering and engineering technology programs requiring a four or two year college degree. By engaging in hands-on real-world engineering projects, students understand how the skills they are learning in the classroom can be applied in everyday life. Students have the opportunity to earn college credit by taking PLTW classes.

### **SPECIAL EDUCATION MENTORSHIP (EE7000)**

**Grade: 12**

Prerequisite: Teacher Recommendation and Application

As a Special Education mentor, you will take an active part in the class by participating in group activities, discussions, and outings. Your role will be to demonstrate appropriate communication skills, behaviors and to offer your perspective. This course is appropriate and would be beneficial for students who are pursuing a career in the field of education or counseling.

### **TEACHING INTERNSHIP (EE6500) Elementary for one period (EE6510 - EE6520) Middle School for two periods**

**Grade: 12**

Learn what it's like to be an elementary or middle school teacher! Teaching interns will experience working one-on-one with a teacher for one class period over one trimester in a district school. This course allows interns to assist students with activities/daily work and help the designated teacher with classroom prep. There will be an application and selection process for those who register for the class. You must provide your own reliable transportation. See your School Counselor if you have questions.

### **ADVANCED PLACEMENT COURSES**

**Grade: 10-12**

Students taking Advanced Placement (AP) courses need to be prepared for college level rigor. STMA offers American Government, Biology, Calculus AB & BC, English Literature and Composition, Macroeconomics, Microeconomics, Music Theory, Physics I (Algebra based) & C (Mechanics), Psychology, Spanish Language and Culture, Statistics, Studio Art, US History, and World History as AP courses. Once students complete the course they are eligible to take the AP Exam in May to earn college credit. There is a monetary fee for each AP Exam students choose to take. Grades earned in AP courses are weighted.

Next year, all students will decide whether or not to take exams and order in the early fall. All students in 1st trimester or year long AP classes who register after the deadline will be assessed \$40.00/exam late fee. In addition, a \$40.00/exam cancellation fee will be assessed for any exam order canceled after the deadline. The ordering deadline for trimester 2 and 3 only courses will be in the spring.

It is important that all families are aware of the timelines, especially as students begin registering for their 2020-2021 courses.

**\*\*COLLEGE-IN-THE-SCHOOL PROGRAM**

**Grade: 11-12**

Algebra, Chemistry, Pre-Calculus and Spanish are offered as college level courses. Upon successful completion the student is eligible to earn college credit. Students must meet the following in order to be eligible to enroll in these courses, juniors (top 33%) and seniors (top 50%). **Grades earned in these courses are weighted. Courses that offer college in the school credit will be identified with a \*\* in the course description.**

**POST SECONDARY ENROLLMENT OPTIONS (PSEO)**

**Grade: 11-12**

Eligible juniors (top 33%) and seniors (top 50%) at STMA High School may enroll in a Minnesota post-secondary college on a full or part-time basis. The intent of the program is to promote rigorous educational pursuits and provide a wider variety of options for students while they earn college credit. Interested students should attend a PSEO informational meeting that will be held at the high school in late February. Every PSEO institution has its own application process and deadline. Students should complete applications prior to April 1<sup>st</sup> for Fall admission into PSEO programs. According to MN State Statute, students must notify their High School by May 30 if they plan to attend PSEO.

**STMA ONLINE: SUPPLEMENTAL PROGRAM (see pages 53-60)**

**Grade: 9-12**

The STMA school district is offering an in-house supplemental online program. This program meets state standards and will count towards graduation credits. Due to the fact that this is a supplemental program only\*, students can take up to 2 online courses per trimester (6 courses per year) to remain an STMA high school student working towards our diploma. Students have the option of taking the course(s) within their 5 period day at no cost or in the summer for a fee.

Reasons that students may choose to take an online course may include:

- Replacing an in person high school course
- Enrichment opportunity - STMA HS does not offer the course or I just want an online experience.
- Scheduling conflict - my current schedule does not allow me to take this course through STMA HS.
- Credit recovery - I have previously taken this course but didn't pass and need to recover the credit. (no cost)

**Students would not be able to remain on the high school campus during the designated online course period(s).** Schedules cannot be rearranged to accommodate specific online course periods. You are responsible for completing the registration process and communicating with the online school when you have questions/problems with your online class.

<b>Registering for an online course in the January open window:</b>	<b>Switching to an online course at the start of a trimester:</b>
<ul style="list-style-type: none"> <li>● Register for the generic online department course number(s) provided on pages 53-60.</li> <li>● Once the registration window closes, STMA online will send you a Google Form to register for the specific course(s) you wish to take.</li> </ul>	<ul style="list-style-type: none"> <li>● Set up a meeting with your guidance counselor.</li> <li>● Dropping an STMA class must take place within the first 10 days of the trimester to avoid earning a F.</li> </ul>
<ul style="list-style-type: none"> <li>● You will be registered in two different schools, STMA high school and STMA online, both working towards your STMA diploma.</li> <li>● Dropping, being dropped due to inactivity, withdrawing from the online course AFTER 2 WEEKS from your start date, or not completing the entire credit, will result in a F on your STMA transcript for that course.</li> </ul>	

\*Per MDE approval, STMA Online will also be offering a full-time online option for students. More information will come this spring when we receive confirmation on approval. For initial questions, please visit the STMA Online tab on the High School Website.

**\*ARTICULATED COLLEGE CREDIT (AC)**

**Grade 10-12**

Articulated Credit is intended to provide technical and community college credit to students while they are attending high school classes. Students can earn college credit in high school at no cost to them. Classes are taught by high school teachers, at the high school.

**Benefits:**

- May earn technical and/or community college credits
- Stay in your own high school
- Explore career opportunities through high school courses

**Other Information:**

- Certificates are awarded to students who have earned college credits. The certificate is converted to college credit when the student enrolls and completes at least one semester course at the college listed on the certificate.
- Certificates are good for three to five years. Students should check with the college listed on the certificate.
- Students need to check with the college of their choice for specific criteria in a program or major.
- Colleges other than the listed colleges may accept AC credits depending on their criteria and program offerings. The student needs to check with the individual colleges.
- For more information about AC, visit [www.ctecreditmn.com](http://www.ctecreditmn.com) or talk to your counselor.

**Articulated Credit may be used at:**

- Anoka Technical College
- Anoka-Ramsey Community College
- Hennepin Community College
- St. Cloud Technical College
- Possibly other institutions

**BUSINESS CERTIFICATES**

Students may receive a Business Certificate upon completion (minimum grade of 80%) of the required business courses. These Certificates certify that the student has completed a comprehensive course of study in business. It will serve as a certification of competency in securing employment in the business field and/or entering a business program at the college level. Upon completion of a Business Certificate Program, students are responsible for submitting certificate completion forms. Students may NOT apply a class to more than one certificate. The four certificates they may earn are:

**Entrepreneurship**

- Entrepreneurship-School Store
- Entrepreneurship-Promotions
- Accounting I
- Business & Sports Marketing

**General Business (Choose any 5)**

- Personal Business Law
- Personal Business Finance
- Entrepreneurship - School Store
- Entrepreneurship - Promotions
- International Business
- Business Management
- Business & Sports Marketing
- Marketing 2
- Accounting I
- Accounting 2
- Business Internship
- Investments
- Career investigations

**Accounting**

- Accounting 1
- Accounting 2
- Microsoft Excel

**Computer Applications**

- Computer Applications I
- Choose 2 of the following:
- Microsoft Excel
- Computer Applications 2

**COLLEGE ADMISSION RECOMMENDATIONS**

**Below are recommended guidelines for entrance into a four-year college/university, however each institution may vary slightly.**

English	4 years
Social Studies	3 years
Math	3 years
Science w/ lab	3 years
World Language	2 years
Fine Arts	1 year

In addition to meeting the above minimum requirements, students planning to attend a four-year college must take either the ACT or SAT college entrance examination. Also, most four-year colleges require a minimum high school class rank in the top 50%, however there are exceptions. Some have much stricter entrance requirements. See your counselor for specific college admission information.

### **NCAA GUIDELINES**

As a prospective student-athlete at a Division I or II institution, you have certain responsibilities to attend to before you may participate. Information concerning who needs to register with the Clearinghouse and what documents should be submitted can be found at [www.ncaaeligibilitycenter.org](http://www.ncaaeligibilitycenter.org). Your Guidance Counselor can help you with questions regarding NCAA.

#### **Division I only -- 16 core courses**

You will need to take 16 core courses in the following breakdown:

- 4 years of English
- 3 years of mathematics (Algebra I or higher)
- 2 years of natural/physical science (one must be a lab science)
- 1 year of additional English, math or natural/physical science
- 2 years of social science
- 4 years of additional core courses (from any area listed above, World Language, or comparative religion/philosophy)

#### **Division II only -- 16 core courses**

You will need to take 16 core courses in the following breakdown:

- 3 years of English
- 2 years of mathematics (Algebra I or higher)
- 2 years of natural/physical science (one must be a lab science)
- 3 years of additional English, math or natural/physical science
- 2 years of social science
- 4 years of additional courses (from any area listed above, World Language, or comparative religion/philosophy)

**ART**

**STUDIO ART (AR6010)**

**Grade: 9-12**

**1 credit**

Studio Art is designed to provide a variety of art experiences for students wishing to explore the possibilities of art. Students will have production experience with a variety of materials and techniques, which may include: drawing, painting, printmaking, graphics, ceramics, and sculpture. The class may also help students determine which art classes to enroll in for the future.

**CERAMICS 1 (AR6020)**

**Grade:10-12**

**1 credit**

In Ceramics I, students will understand the form of three-dimensional art by experimentation, discussion and critique. Students will be evaluated on artistic presentations of a variety of forms through various methods of hand-building and throwing. **There is a \$15.00 lab fee.**

**CERAMICS 2 (AR6030)**

**Grade:10-12**

**1 credit**

Prerequisite: A grade of B- or better in Ceramics I

In Ceramics II, students will continue to explore hand-build and throwing techniques involving more complex problems, students will also explore styles, themes, history, and techniques of ceramics. Students will be evaluated on demonstration of skills, communication of intent, variety of work, sense of aesthetics, audience comprehension and verbal critique. **There is a \$15.00 lab fee.**

**CERAMICS 3 (AR6110)**

**Grade: 11-12**

**1 credit**

Prerequisite: A grade of B- or better in Ceramics II

Ceramics III is designed for the student who has successfully completed Ceramics I & II. Students will create their own artistic statements through ceramics and will be expected to publicly show their artwork in a group exhibition. Evaluated student work will include a resume, portfolio, a written proposal of goals, and an exhibition. **There is a \$15.00 lab fee.**

**SCULPTURE 1 (AR6120)**

**Grade: 10-12**

**1 credit**

In Sculpture I students will learn the concept of elements of design and principles of construction methods in three dimensional forms by experimentation, discussion and critique. Students will be evaluated on artistic presentations of a variety of forms through additive and/or subtractive construction, sense of aesthetics, audience comprehension and verbal critique. Projects may include: jewelry, clay sculpture, 3D printing pens, wire and assemblage. **There is a \$15.00 lab fee.**

**SCULPTURE 2 (AR6130)**

**Grade: 10-12**

**1 credit**

Prerequisite: A grade of C or better in Sculpture I

In Sculpture II students will continue working with additive and subtractive forms of sculpture that were experienced and successfully completed in Sculpture I. Students will understand the elements, techniques and processes of sculpture from various historical and cultural frameworks and how sculpture is created for a variety of functions. Students will be evaluated on demonstration of skills, communication of intent, variety of work, sense of aesthetics, audience comprehension and verbal critique. **There is a \$15.00 lab fee.**

**DRAW & PAINT 1 (AR6210)**

**Grade: 9-12**

**1 credit**

Students will understand the form of two-dimensional art by experimentation, discussion, portfolio and critique. Students will be evaluated on artistic presentation in a variety of drawing and painting mediums, techniques and styles. Course was previously offered as individual courses titled Drawing I and Painting I. **There is a \$15.00 lab fee. Students will be asked to purchase a sketchbook in addition to the lab fee.**

**DRAWING 2 (AR6220)**

**Grade: 10-12**

**1 credit**

Prerequisite: A grade of C or better in Drawing I or Drawing and Painting I

In Drawing II students will continue to explore drawing techniques involving more complex problems, students will also explore styles, themes, history, and techniques of drawing. Students will be evaluated on demonstration of skills, communication of intent, variety of work, sense of aesthetics, audience comprehension and verbal critique. **There is a \$15.00 lab fee. Students will be asked to purchase a sketchbook in addition to the lab fee.**

**DRAWING 3 (AR6230)**

**Grade: 10-12**

**1 credit**

Prerequisite: A grade of C or better Drawing II

Drawing III is designed for students who have successfully completed Drawing I & II. Students will create their own artistic statement through painting and will be expected to publicly show their artwork in a group exhibition. The student work that will be evaluated will include a resume, portfolio, a written proposal of their goals and an exhibition. **There is a \$15.00 lab fee. Students will be asked to purchase a sketchbook in addition to lab fees.**

**PAINTING 2 (AR6310)**

**Grade: 10-12**

**1 credit**

Prerequisite: A grade of C or better in Painting I or Drawing and Painting I

In Painting II students will continue to explore drawing techniques involving more complex problems, students will also explore styles, themes, history, and techniques of drawing. Students will be evaluated on demonstration of skills, communication of intent, variety of work, sense of aesthetics, audience comprehension and verbal critique. **There is a \$15.00 lab fee. Students will be asked to purchase a sketchbook in addition to the lab fee.**

**PHOTOGRAPHY 1 (AR6320)**

**Grade: 10-12**

**1 credit**

In Photography I students will study the history of photography, learn how to use a DSLR camera and computer editing techniques. Digital photography will explore Adobe Photoshop, photo printing, and digital online portfolios. Students will gain technical skills, master photography composition and foster creativity. This class will be the first introduction to media arts, which involves blog design and digital artwork. Previous art experience is not required. **Students are responsible for a \$15.00 lab fee.**

**PHOTOGRAPHY 2 (AR6330)**

**Grade: 10-12**

**1 credit**

Prerequisite: A grade of B- or better in Photography/Media Arts I

In photography II students will continue to explore digital photography techniques involving more complex concepts. Students will also explore styles, themes, history and techniques of photography in addition to gallery presentation. Computer imaging /graphic design and media arts techniques will be employed in the creation of images and digital artwork. Students will be evaluated on skill, variety, creativity and sense of aesthetic, audience comprehension and verbal critique of photographic presentation. **Students are responsible for a \$15.00 lab fee.**

**PHOTOGRAPHY 3 (AR6410)**

**Grade: 11-12**

**1 credit**

Prerequisites: A grade of B- or better in Photography/Media Arts II

Photography III is designed for students who successfully completed photography II. Students will concentrate on finding a style and subject matter while creating an artistic statement through digital photography and media arts. Evaluation will be made on the student's resumes, portfolios, written proposal of goals and an exhibition. **Students are responsible for a \$15.00 lab fee.**

**ADVANCED PLACEMENT STUDIO ARTS (AR6420-AR6430)**

**Grade: 11-12**

**2 credits**

Prerequisites: Two art classes (B or better) and an art teacher recommendation. **A portfolio submission and form need to be completed and a signature is required from department chair to enroll.**

AP Studio Art is a college level course. AP Studio Art is designed for students who are seriously interested in practical experience of art. AP studio arts are not based on a written exam; instead, students submit a portfolio at the end of the year for evaluation. The three areas of emphasis are 2D (painting and photography), 3D (sculpture and ceramic), and drawing. The College Board does all final evaluations of portfolios. Please be aware this course includes summer assignments. **Students are responsible for a \$15.00 lab fee each trimester.**

**GRAPHIC DESIGN (AR6510)**

**Grade: 11-12**

**1 credit**

Prerequisite: Two art classes with a grade of C or better

This art course uses technology as a tool to create artistic imagery through digital drawing, digital painting, and printmaking. Students will have the opportunity to print designs on a variety of surfaces. In this class students will experiment and explore the intersection of fine art and design technology. Some projects will allow students to choose their own medium. Students who are interested in digital and visual art or commercial design careers are encouraged to take this course. **Students are responsible for a \$15.00 lab fee each trimester.**

# **BUSINESS/COMPUTER APPLICATIONS**

## **FINANCIAL & COMPUTER ESSENTIALS (BU1000)**

**Grade: 9**

**1 credit**

Financial & Computer Essentials is required for all freshmen. Students will receive instruction in skills necessary to be successful in high school and real life. The areas of instruction include keyboarding, media research, computer applications, study skills, financial planning, good use of credit, managing a checking account and career awareness.

## **COMPUTER APPLICATIONS 1 (BU6310)**

**Grade: 9-12**

**1 credit**

This course provides students with a solid foundation in the Microsoft Operating System and Microsoft Office 2016 Program, including Word, Excel, PowerPoint and Access. This introductory course will prepare students for applications in both the high school and college environments. In addition, Microsoft Office skills are sought after in the workplace. Focus in the course is on real world projects and applications using Microsoft Office 2016 Introductory Book. (\*Possible Articulated College Credit – see page 5).

## **COMPUTER APPLICATIONS 2 (BU6320)**

**Grade: 9-12**

**1 credit**

Prerequisite: Computer Applications I

Students will focus on advanced computer skills using Microsoft Office 2016 Suite. The areas of focus will be advanced word, Excel, Powerpoint and Access. Students will create projects that relate to the workplace and produce authentic real-life documents using Microsoft Office 2016 Intermediate Book. (\*Possible Articulated College Credit – see page 5).

## **BUSINESS GRAPHICS (BU6020)**

**Grade: 9-12**

**1 credit**

Students will learn how to use various software programs, including Adobe InDesign, Adobe Photoshop, and Microsoft Publisher and online editing programs. Projects will include posters, billboards, magazine covers, packaging designs, menus, movie posters and more.

## **ADVANCED BUSINESS GRAPHICS (BU6030)**

**Grade: 9-12**

**1 credit**

Prerequisite: Business Graphics

Students will expand and explore deeper into the tools of Adobe Photoshop and online editing programs. Using creativity and technical skills, students will use in-depth image editing, retouching, creating image compositions, website mockups, and affects. Students will work on a variety of projects and have the opportunity to independently discover Photoshop skills of their choice. This class will be helpful for students interested in careers such as designers, web developers, graphic artists, photographers and creative professionals.

## **MICROSOFT EXCEL (BU6330)**

**Grade: 10-12**

**1 credit**

Prerequisite: Students coming into this class should have a basic understanding of Microsoft Office Suites

Learn skills that are in high demand in the job market. Students will learn to manage and analyze data using Excel. Students who plan to major in business, accounting, engineering and science will find Excel helpful in college. This course covers the creation and use of spreadsheets to make business decisions. Topics include spreadsheet formulas and functions, formatting, ranges, charts, and spreadsheet decision tools using Microsoft Office 365 Excel 2016 Comprehensive textbook. This course counts toward the STMA Accounting certificate. (\*Possible Articulated College Credit – see page 5).

**PERSONAL AND BUSINESS FINANCE (BU6500)**

**Grade: 10-12**

**1 credit**

Real-life situations will be the focus of Personal and Business Finance. This class will help students learn how to make good financial decisions. Students will develop skills necessary to use credit cards, select insurance, use checking and savings accounts, prepare tax statements, develop budgets, and make sound buying decisions. Students will prepare a budget, manage a checking account, complete tax returns, plan how to utilize credit to finance a major purchase, and make investment choices. (\*Possible Articulated College Credit – see page 5).

**INVESTMENTS (BU6430)**

**Grades 11-12**

**1 credit**

Prerequisite: Personal and Business Finance

Students in this class will learn how to invest in mutual funds, stocks, bonds, commodities, and futures. Course content will include valuation models, risk assessment, analysis of financial securities, portfolio theory and maintenance, and the time value of money. Outside speakers will contribute to the classroom learning experience.

**BUSINESS AND SPORTS MARKETING (BU6200)**

**Grade: 9-12**

**1 credit**

Business and Sports Marketing introduces students to marketing concepts through a variety of hands-on activities and projects. While the emphasis is on business marketing principles, students have the opportunity to explore sports, retail, and entertainment marketing.

**MARKETING 2 (BU6210)**

**Grade: 10-12**

**1 credit**

Prerequisite: Business and Sports Marketing

Enjoy Business and Sports Marketing? Marketing II continues where the Business and Sports Marketing Class ended. The course will cover advertising, distribution, pricing, packaging, consumer behavior, promotion and careers. Students will have the opportunity to build on the marketing principles and concepts covered in the prerequisite class with a variety of hands-on activities and projects. The course will also address students' marketing career interests and the impact of globalization on marketing.

**PERSONAL BUSINESS LAW (BU6510)**

**Grade: 10-12**

**1 credit**

Students will understand the laws that protect a minor and how these laws change at 18. Instruction will include legal rights and responsibilities in school, at home, and in the business world. Students will learn the difference between a tort and a crime and what makes a contract valid and enforceable. Students will explore current law related news and court cases. Students will have the opportunity to hear various guest speakers and participate in a mock trial. Potential field trip to county courthouse and jail.

**INTERNATIONAL BUSINESS (BU6420)**

**Grade: 11-12**

**1 credit**

Find out why the business world considers the world to be flat. Students in this class will experience the sights, sounds and tastes from around the world, while exploring our global marketplace. Topics covered include global marketing, international trade, cultural influences on business, the importance of effective communication, outsourcing, emerging markets, and international currency. The class focuses on a variety of hands-on activities and projects. **Course fee of \$5.00 for international tasting activities.**

**BUSINESS MANAGEMENT (BU6230)**

**Grade: 10-12**

**1 credit**

Business management will teach students the responsibilities involving interpersonal activities, decision-making, communication, and teamwork. Emphasis is placed on developing leadership qualities, management strategies, critical thinking skills, and effective communication skills.

**ACCOUNTING 1 (BU6000)****Grade: 9-12****1 credit**

In Accounting I students learn the language of business and the skills of accounting for a sole proprietorship in a service business. Students taking Accounting I may be preparing for an accounting career, a career in a related business field, or a college major in business (\*Possible Articulated College Credit – see page 5). This course is highly recommended for students pursuing a career pathway in business.

**ACCOUNTING 2 (BU6010)****Grade: 10-12****1 credit**

Prerequisite: Accounting I

In Accounting II students will learn the skills of accounting for a merchandise business organized as a corporation. Students will learn to use special journals, accounts receivable and payable ledgers, how to prepare payroll and payroll taxes, and how to prepare financial statements for a corporation. This course is highly recommended for students pursuing a career pathway in accounting or finance. (\*Possible Articulated College Credit – see page 5).

**CAREER INVESTIGATIONS (BU6300)****Grade: 10-12****1 credit**

Students in Career Investigations will evaluate career choices through exploration and research. Students will demonstrate an understanding of a variety of career clusters, attributes, and aptitudes needed in particular types of occupations and careers. Students will also research colleges, create resumes and cover letters, and participate in a mock interview. Guest speakers from various careers will speak to the class.

**ENTREPRENEURSHIP – SCHOOL STORE (BU6400)****Grade: 11-12****1 credit**

Prerequisites: The following courses: Business Graphics and Business &amp; Sports Marketing or teacher approval

Entrepreneurship – School Store Operations is for students who want to learn the basic principles of starting and operating a small business. Students will learn business management, marketing, and accounting skills and apply these skills to an actual class operated business. In addition, students will be responsible for making decisions about markets, products, site selection, financing, staffing, and legal decisions. The class business may have locations on and off campus. Students in this class will be responsible for driving their own vehicle or will ride with another student to and from business locations during the duration of this class. (\*Possible Articulated College Credit – see page 5)

**ENTREPRENEURSHIP – PROMOTIONS (BU6410)****Grade: 11-12****1 credit**

This class is for students that would like to put their marketing knowledge and creative skills to work. Students will use a variety of marketing and promotion strategies to advertise different events and announcements throughout our school and community. Students will create promotional campaigns using several types of media platforms and other marketing tools.

**BUSINESS INTERNSHIP (BU6111, BU6112, BU6113)****Grade: 11-12****3 credits**

Prerequisite: Students must interview for this course to qualify for the program (just like a job in the real world) \*See Business Department for application process

This course gives students the opportunity to work with a business teacher to coordinate an on-the-job learning experience at a local company. The course counts for three credits, requiring a year-long commitment to one class period per day. Students are released during fifth period to work. Students gain career experience, leadership development, business skills, computer skills and communication skills. Students are required to integrate knowledge from prior courses into the job experience so students will have a clearer idea as to which career path interests them.

# **ENGLISH LANGUAGE LEARNER**

**Students whose home language is other than English, or who come from a part of the world where the variety of English is very different from American English, may qualify to receive support from the English Language Learner (ELL) Program. The mission of the ELL Program is to support English Language Learners in achieving the English language proficiency needed to succeed academically and to realize personal, social, and career goals.**

**ELL - 1A, 1B, 1C (EL6010, EL6020, EL6030)  
3 credits**

**Grade: 9-12**

This course is for qualified ELL students and is designed to build and to improve speaking, listening, reading and writing skills in English. Through the course, students will continue to be able to communicate better, to increase their vocabulary, and to strengthen their reading and writing skills, including comprehension. The students will be able to participate more effectively in their other classes. Students will be assessed through participation, daily work, quizzes, tests, and projects. This course is for students whose native is not English.

**ELL - 2A, 2B, 2C (EL6110, EL6120, EL6130)  
3 credits**

**Grade: 9-12**

This course is for qualified ELL students who have mastered basic English skills in reading, writing, speaking and listening. Through the course, students will be able to read and comprehend reading material, to use grammatical structures, and to discuss and analyze what they have read. They will be able to write for different purposes and to use vocabulary comparable to that of a native English speaker. The students will be assessed through class participation, daily work, quizzes, tests, essays and projects.

**ELL RESOURCE - A, B, C (EL6410, EL6420, EL6430)  
3 credits**

**Grade: 9-12**

This course is for qualified ELL students who need extra time to focus on mainstream course content, need extra assistance completing assignments and/or extra time to finish mainstream assessments and/or to have tests read out loud. Students will set personal goals, use organizational skills, and learn new note taking skills and test taking strategies. Pass/Fail grade.

# ENGLISH

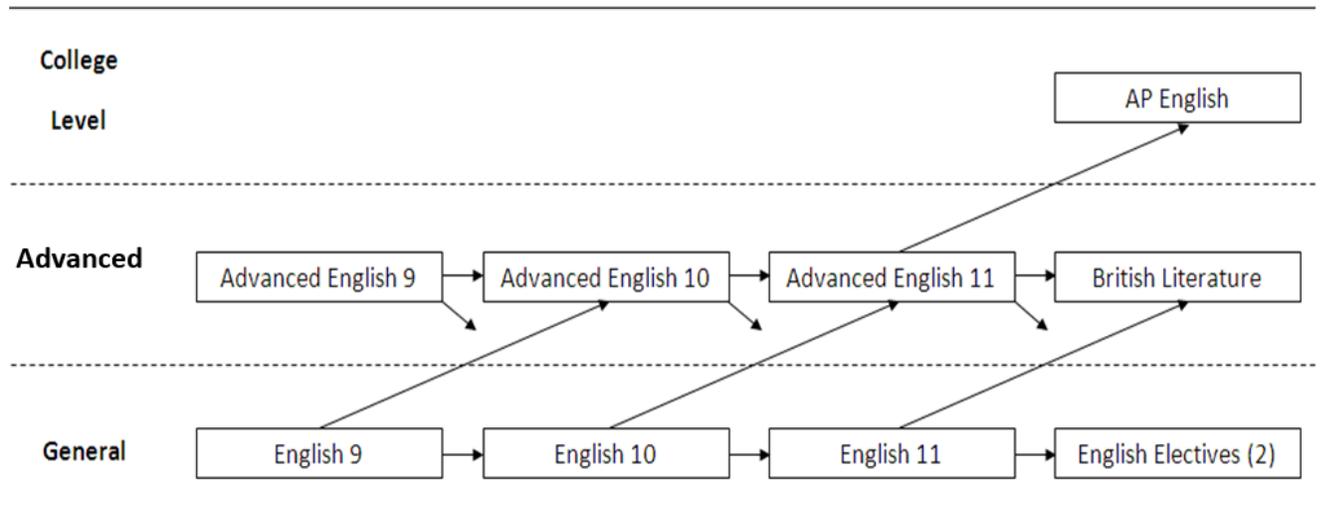
## Registering for English Classes:

Below is a visual aid that explains the progression students must follow in order to fulfill their English requirements for graduation. All students must take either advanced or regular English 9, 10, and 11, which are all two trimester courses. For their senior year, they can take either British Literature (two trimesters), two elective courses (one trimester each), or A.P. English (two or three trimesters depending on whether students plan to take the A.P. English Literature and Composition test or not).

**Pre-requisites:** Be aware that each class has a prerequisite course, which is represented by the arrows. These arrows indicate possible progressions students may follow through their high school English experience.

**Advanced classes:** Students may progress through advanced courses so long as they meet the criteria for those classes, which are determined by performance in a prerequisite class, teacher feedback, and NWEA testing data. Students may move from advanced courses to regular courses (e.g. Advanced 9 to English 10) or from regular courses to advanced (e.g. English 10 to Advanced English 11). The one exception is A.P. English. Students must take Advanced English 11 to be allowed into A.P. English. Students planning to attend a four-year university need to consider taking at least one college-preparatory course before they graduate (Advanced 11, British Lit. or A.P). Students hoping to test out to receive college credit need to be especially aware of the prerequisite coursework so that they can take A.P. English their senior year.

**Other exceptions:** Students may take English electives their junior year in addition to, but not instead of, English 11 or Advanced English 11.



# **ENGLISH**

## **ENGLISH - 9A & 9B (EN1071 - EN1072)** **2 credits**

**Grade: 9**

Students in English 9 will explore standards including reading, speaking, writing, and grammar. Reading consists of classical and contemporary literature including novels, short stories, plays, and poetry. Students will refine their speaking skills through small and large group discussions and formal/informal speeches. Students will build upon their knowledge of sentence structure and command of usage and mechanics. Grades will be based on quizzes, tests, daily work, speeches, presentations, and essays.

## **ADVANCED ENGLISH - 9A & 9B (EN1081 - EN1082)** **2 credits**

**Grade: 9**

Prerequisite: English 8 teacher recommendation

Advanced English 9 is designed to challenge students with a more in-depth look at the issues encountered in the literature and a more rigorous atmosphere of study. There will be higher expectations for students' homework, discussion, and writing; students are to be self-motivated and have highly developed reading and writing skills. Students in Advanced English 9 will focus on many aspects of communication (discussions & speeches) and on classical and contemporary literature of both fiction and nonfiction selections. Students will refine knowledge of sentence structure and refine their command of usage and mechanics. Students will be graded on quizzes, tests, projects, presentations, and writing.

## **ENGLISH - 10A & 10B (EN2071 - EN2072)** **2 credits**

**Grade: 10**

Prerequisite: English 9

English 10 students will explore relationships and ideas through reading, writing, speaking, and research. Student writing will concentrate on narrative writing, persuasive writing, and literary analysis. Student reading will consist of a mix of independent reading and whole-class reading. Students will refine knowledge of sentence structure and improve their command of usage and mechanics. Grades will be based on quizzes, tests, group and individual projects, essays, public speaking, and classroom participation.

## **ADVANCED ENGLISH - 10A & 10B (EN2081 - EN2082)** **2 credits**

**Grade: 10**

Prerequisite: Grade of B or better in English 9/Advanced English 9 and NWEA test scores

How is Advanced English 10 different than English 10? The advanced class is designed for students who read, write, and speak very well. Students will be expected to read, interpret, and write about both fiction and nonfiction literature at a higher level than regular English 10. Students in Advanced English 10 will analyze and evaluate relationships and ideas through reading, writing, speaking, and research. The reading will be done in both whole class and smaller literature circle settings. Independent reading and writing assignments will be assigned. Students will write timed essays. A research-based persuasive essay and formal speech are required components. Students will refine knowledge of sentence structure and their command of usage and mechanics. The writing focus will be on literary analysis, persuasive, and personal narrative compositions. Grades will be based on quizzes, tests, projects, written composition, public speaking, and classroom participation.

## **ENGLISH 11: Research (EN3070)** **1 credit**

**Grade: 11**

Prerequisite: English 10 or Advanced English 10

English 11 is a two-trimester course that includes reading and writing. In Eng 11: Research, students study the literature of survival. They will read a fiction and a nonfiction book centered on this theme. The reading will be done in both whole class and smaller literature circle settings. Students will also write a research paper about a survival topic. The research process will be an important area of study, including researching, source evaluation, outlining, revising, citing of sources, and reviewing MLA format. In addition, students will study grammar and usage to help prepare them for the English section of the ACT.

**ENGLISH 11: Literature (EN3170)**

**Grade: 11**

**1 credit**

Prerequisite: English 10 or Advanced English 10

English 11 is a two-trimester course that includes reading and writing. In Eng 11: Literature, students will read the play *The Crucible*, the novel *To Kill a Mockingbird*, and other shorter pieces of historical American literature (including the Declaration of Independence, Gettysburg Address, etc.). This trimester also features a literary analysis paper on the novel. In addition, students will study punctuation and sentence structure to help them prepare for the English section of the ACT.

**ADVANCED ENGLISH - 11A & 11B (EN3181 - EN3182)**

**Grade: 11-12**

**2 credits**

Prerequisite: Grade of B or better in English 10/Advanced English 10 and NWEA test scores

**This class is required if a student plans to enroll in Advanced Placement English**

This course includes extensive reading, writing, and poetry components. Students will read four novels and analyze the novels according to the vocabulary of the art form. Students research and present on literary theory and analyze the historical context which produced the literature. There will also be three papers required—a personal essay of definition, a literary analysis paper, and a literary comparison paper. Students will be assessed through class participation, tests and quizzes, some group work, and writing.

**MEDIA LITERACY (EN5170)**

**Grade: 11-12**

**1 credit**

Prerequisite: English 10 or Advanced English 10

Students will learn how media propaganda techniques and stereotypes are used to manipulate. Students will analyze visual media and advertisements for ideological propaganda. Students will also work in small groups to gain a deeper understanding of embedded messages through a variety of media topics and present their information to the class. Students will study other media issues such as censorship and stereotypical gender roles. The course includes reading a novel which illustrates media issues. Assessment will be based on individual media projects, analysis papers, journals, tests, and reading articles related to media issues. **This course currently does not meet NCAA Clearinghouse standards, which would impact Division I and II level college athletic eligibility.**

**PUBLIC SPEAKING (EN5270)**

**Grade: 11-12**

**1 credit**

Prerequisite: English 10 or Advanced English 10

Speaking in public need not be terrifying. In this class, students will construct and deliver speeches for a variety of purposes, such as persuading, informing, demonstrating, and entertaining. To communicate effectively, students will learn to select appropriate techniques; construct informational support through the use of research, visual aids, technology, and other equipment; and utilize various presentation styles. Students will be evaluated on classroom participation, preparation, and speech delivery.

**LITERATURE OF WAR (EN5370)**

**Grade: 11-12**

**1 credit**

Prerequisite: English 10 or Advanced English 10

This class uses nonfiction books, articles, and essays to explore current events and social issues. In addition to nonfiction texts, students will also use some fiction, poetry, and film to explore how literature reflects social issues. Students will consider multiple perspectives and resources on assessments (comparing a book to a film to an article, for example) and will be further assessed on participation, daily work, discussion, and presentations.

**AMERICAN LITERATURE OF SOCIAL CHANGE (EN5570)**

**Grade: 11-12**

**1 credit**

Prerequisite: English 10 or Advanced English 10

This class uses nonfiction books, articles, and essays to explore current events and social issues. In addition to nonfiction texts, students will also use some fiction, poetry, and film to explore how literature reflects social issues. Students will consider multiple perspectives and resources on assessments (comparing a book to a film to an article, for example) and will be further assessed on participation, daily work, discussion, and a presentation.

**CREATIVE WRITING (EN5470)****Grade: 11-12****1 credit**

Prerequisite: English 10 or Advanced English 10

Creative writing will teach students the value of communicating in various written forms. Students will study poetry, fiction and nonfiction. They will read model texts and compose original pieces. In all writing assignments, students will explore ways to be creative, distinct, and unique. Students will write a large variety of material, from short fiction to narrative materials, in hopes of discovering effective voices for all writing situations.

**BRITISH LITERATURE - A&B (EN4071 - EN4072)****Grade: 12****2 credits**

Prerequisite: Grade of B or better in English 11 or Advanced English 11

Students not taking AP English who plan to attend a four year college should strongly consider taking this course.

British Literature is a college preparatory course that prepares students who are intending to go to a four-year college after high school. It is designed to give students exposure to a variety of classic and British prose and poetry, as well as a brief look at the sometimes strange and quirky history of our language. Students will be assessed through projects, essays, tests, quizzes, and daily work.

**ADVANCED PLACEMENT ENGLISH - A,B,C (EN4091, EN4092, EN4093)****Grade: 12****3 credits**

Prerequisite: Grade of B or better in Advanced English 11 and NWEA test scores

Advanced Placement English is designed to be the equivalent of freshman college English. Students will read, analyze, and respond to a wide variety of literary forms, including plays, poetry, fiction, and nonfiction. Students will be expected to handle large reading assignments on a nightly basis and be able to write at a high level, completing papers without using class time. Near the end of the school year, students will have the option to take the AP exam given by the College Board which allows them the possibility of earning college credits.

**Seniors planning to take both the AP English and AP World History should use course #SS5593 in place of the third course #EN4093.**

**YEARBOOK DESIGN & PUBLICATIONS - A&B Trimester 1 & 2 (EN7071 - EN7072)****Grade: 11-12****2 credits (Note: This course does not fulfill English credit requirements)**

Prerequisite: Grade of B or better in previous English course and Photography I

This is a class for self-motivated, independent learners wanting to perfect their writing abilities and photography and graphic design skills through publication. This class is designed for students to work with the yearbook staff to design, create, and publish the Knights Yearbook. Emphasis will be placed on writing journalistic copy, including research, interviewing techniques, feature stories, headlines, and captions. Students will be expected to attend after school activities to gather interview, photograph, and journalistic copy materials. Extensive revisions will be necessary during the writing and design process.

**YEARBOOK SALES - C Trimester 3 (EN7073)****Grade: 11-12****1 credit (Note: This course does not fulfill English credit requirements)**

Prerequisite: Grade of B or better in previous English course, Photography I, and teacher recommendation

This is a class for self-motivated, independent learners wanting to perfect their writing abilities and photography and graphic design skills through publication. This class continues the publication work from the previous two trimesters. Emphasis will be placed on writing journalistic copy, including research, interviewing techniques, feature stories, headlines, and captions. Students will be expected to attend after school activities to gather interview, photograph, and journalistic copy materials. Students are responsible to meet the final deadline before publication. Students will learn how to make a sales pitch and market yearbook advertisements to community businesses and create sponsor pages for the following years yearbook. Students will self-organize and distribute the yearbook.

# FAMILY AND CONSUMER SCIENCES

## LIVING SKILLS (FA6010)

Grade: 9-10

1 credit

If you are a student who is interested in doing a lot of different classroom activities and studying various topics, then this class is for you. This is an exploratory class covering many components of Family and Consumer Sciences. Topics include: relationships, communication, money management, clothing, food and nutrition. Students will participate in food labs, simulations, sewing activities, projects and a variety of other activities. The STMA FACS Department uses nuts, dairy and gluten-based products. **Students are responsible for a \$10.00 lab fee due at the beginning of the trimester or prior to participation in labs.**

## CHILD DEVELOPMENT: PRENATAL THROUGH AGE 2 (FA6310)

Grade: 9-12

1 credit

In this class, students will study the development of children from conception to two years of age. We will study the physical, emotional, social and intellectual development of a child. Topics will include conception, pregnancy, prenatal development, labor and delivery, and infant growth. The best way for students to fully understand the demands of caring for an infant is through an infant care simulation (an alternate assignment is possible if the infant simulation is not possible). Several guest speakers will come in to share their expertise on pregnancy care, adoption and proper infant and child care. This class will help prepare students for a career in Human Services and Health Science Technology fields.

## CHILD DEVELOPMENT: PRESCHOOL THROUGH SCHOOL AGE (FA6320)

Grade: 10-12

1 credit

This class will cover child development in the preschool and school-age years. The focus will be on physical, emotional, social and intellectual development of a child. Areas of study will include lesson planning for preschool children, child development theorists, the power of play, careers in child development and healthy eating for a child. Students MAY have the opportunity to have a field experience at a local elementary school. Projects and hands-on activities will be the heart of the class. You **do not** need to take "Child Development: Prenatal Through Age 2" before taking this class. This class will help prepare students for a career in Human Services and Health Science Technology fields.

## CREATIVE SEWING (FA6410)

Grade: 10-12

1 credit

Need something to wear at Comic-Con, The Renaissance Festival, a Cosplay convention or want to wear a unique outfit to Prom? Creative Sewing is the class for you! Students will work on some of the following: clothing construction, quilting, needlework, surface design, recycling clothing and other related areas. Creative expression will be encouraged while exploring techniques and innovations. **Students will be responsible for supplying most of the project materials. Cost will vary depending on the project.** This class will help prepare students for a career in the Arts, Communication Information Systems fields, Engineering, Manufacturing & Technology.

## FASHION (FA6020)

Grade: 9-12

1 credit

Students taking this course will be studying how fashion and clothing has impacted events and themes across cultures and time. They will explore the lives and accomplishments of fashion designers, the expressions of fashion, history of fashion, current and past trends and cultural differences impacting dress. This class will help prepare students for a career in Arts, Communication Information Systems fields, Engineering, Manufacturing & Technology.

## HORTICULTURE SCIENCE (FA6330)

Grade: 10-12

1 credit

This is a basic gardening class for those who want to grow plants for home consumption and personal enjoyment. Students will understand the foundation of basic plant science and vegetable/flower gardening. Students will engage in hands-on learning around growing, tending and cooking/storing the produce grown. Students will use the district garden plots and greenhouse during the class. The STMA FCS Department uses nuts, dairy and gluten-based products. This class will help prepare students for careers in Agriculture and Food & Natural Resources fields. **Students are responsible for a \$15.00 lab fee due at the beginning of the trimester or prior to participation in labs.**

**INTRODUCTION TO FOODS (FA6130)**

**Grade: 10-12**

**1 credit**

Lost in the kitchen? Do you want to be able to pick up a recipe and make it, but don't know if you are doing it correctly? Then this class is for you! Students will gain knowledge of the kitchen, its equipment and how to follow a recipe. Students will also explore foods and recipes found in each of the five sections of MyPlate. The STMA FCS Department uses nuts, dairy and gluten-based products. This class will help prepare students for careers in Hospitality, Tourism, Agriculture and Food & Natural Resource Fields. **Students are responsible for a \$15.00 lab fee due at the beginning of the trimester or prior to participation in labs.**

**INTERNATIONAL FOODS (FA6210)**

**Grade: 10-12**

**1 credit**

Prerequisite: Grade of C- or better in Introduction to Foods

Have you ever eaten at a restaurant where you are not sure what you've ordered? In International Foods you'll get a first-hand opportunity to learn about foods that come from other parts of the world. Past favorite dishes prepared by students include: Chicken Parmesan, Southern Fried Chicken, French Lemon Chicken, Chicken Stir Fry, egg rolls and Apple Crisp. International Foods concentrates on traditional food preparation with plenty of "hands-on" opportunities. The STMA FCS Department uses nuts, dairy and gluten-based products. This class will help prepare students for careers in Hospitality, Tourism, Agriculture, Food and Natural Resources fields. **Students are responsible for a \$15.00 lab fee due at the beginning of the trimester or prior to participation in labs.**

**BAKING AND PASTRY (FA6230)**

**Grade: 10-12**

**1 credit**

Prerequisite: Grade of C- or better in Introduction to Foods

The Baking and Pastry course is designed for those students who are interested in further coursework involving food preparation. Students will learn preparation techniques and principles used in baking. The seven main units include: safety and sanitation, kitchen equipment, measuring and ingredient functions, cookies, quick breads, yeast breads, cakes, pies and pastries. The STMA FCS Department uses nuts, dairy and gluten-based products. This class will help prepare students for careers in Hospitality, Tourism, Agriculture, Food and Natural Resources fields. **Students are responsible for a \$15.00 lab fee due at the beginning of the trimester or prior to participation in labs.**

**INDEPENDENT LIVING (FA66220)**

**Grade: 11-12**

**1 credit**

What?! Graduation is when??? How will I survive on my own? If students are asking themselves these questions, then the Independent Living course is for them. The class is designed for students who are going out on their own or to college after graduation. Students will gain strategies and skills on how to survive after high school. This course will look at developing skills in household management, keeping yourself healthy and apartment or dorm living. Students will gain skills in budgeting, money management, avoiding credit pit-falls, buying a car and insurance. The STMA FCS Department uses nuts, dairy and gluten-based products. **Students are responsible for a \$10 lab fee due at the beginning of the trimester or prior to participation in labs.**

**\*\*\*THE FOLLOWING TWO COURSES ARE OFFERED ON A ROTATING YEAR SCHEDULE\*\*\***

**INTERIOR DESIGN 1 (FA6110)**

**Grade: 10-12**

**1 credit**

This class is for students interested in the basics of interior design. Students will be expected to show a range of work on various interior design principles. Using a variety of sources to create examples of material covered in class, students will complete a final project of assembling their dream home. Topics may include, but are not limited to, function of housing the elements and principles of interior design, floor plans, traffic patterns, presentation methods, architectural and furniture styles, and career exploration. This class will help prepare students for a career in Engineering, Manufacturing and Technology.

**INTERIOR DESIGN 2 (FA6120) (This course will be offered in the 2022-2023 school year)**

**Grade: 10-12**

**1 credit**

Prerequisite: Successful completion of Interior Design I

This class offers students the opportunity to develop more advanced interior design skills. An interior design project/portfolio will allow students to apply interior design skills in a residential setting. Topics will include: furniture design/style and arrangement, floor coverings, wall coverings, lighting principles, window treatments, and other related topics. This class will help prepare students for a career in Engineering, Manufacturing and Technology.

# **HEALTH**

## **HEALTH1 (PH1010)** **1 credit**

**Grade: 9-10**

Students will discover information and learn the skills required to make effective health decisions in key aspects of their lives. This course covers four main areas of health concerns for adolescents as established by the Centers for Disease Control (physical fitness, nutrition, mental health, human sexuality & relationships). Students will learn through small group projects, small and large group discussions, teacher presentations, and individual reading and research. There will be an alternative assignment option available for the Human Sexuality unit.

## **HEALTH2 (PH2010)** **1 credit**

**Grade: 10-11**

Prerequisite: Health I

As an extension of Health I, students in Health II will continue to gain knowledge and skills to help them make healthy decisions now and in the future. Infectious and lifestyle diseases will be discussed, along with chemical and mental health. The focus will be on how unhealthy choices can lead to disease. In addition, students will complete an in-depth genealogy project focusing on hereditary diseases in their families and how to best prevent them. Lastly, students will gain knowledge and skills in first aid, cardiopulmonary resuscitation, and safety issues through participation in these life-saving skills.

# MATHEMATICS

## ALGEBRA 1.5 - A&B (MA1071 - MA1072)

Grade: 9

2 credits

Prerequisite: Recommended grade of C or better in Math 8

In Algebra 1.5 students review topics learned in Math 8 and study topics such as exponents, factoring, quadratic functions, radicals, polynomials, rational expressions & equations, graph transformations, and probability and statistics. Students will be expected to complete daily assignments. Student evaluation will be based on daily work, quizzes, and tests. A scientific or graphing calculator is required.

## ADVANCED ALGEBRA 1.5 (MA1081)

Grade: 9

1 credit

Prerequisite: Grade of B or better in all grading periods of Advanced Math 8

In Advanced Algebra 1.5 students study topics such as exponents, factoring, quadratic functions, radicals, polynomials, rational expressions & equations, graph transformations, and probability and statistics. These students will move at a more rapid pace and study topics more in-depth than the Algebra 1.5 students. Students will be expected to complete daily assignments. Student evaluation will be based on quizzes and tests. A graphing calculator (TI-83 or TI-84) is required.

## GEOMETRY - A&B (MA2071 - MA2072)

Grade: 9-10

2 credits

Prerequisite: Recommended grade of C- or better in all grading periods of Algebra 1.5

In Geometry students study topics such as deductive and inductive reasoning, geometric definitions, congruence, similarity, area, volume, and properties of lines, triangles, quadrilaterals and circles. Students will be expected to complete daily assignments. Student evaluation will be based on daily work, quizzes, and tests. A scientific or graphing calculator is required.

## ADVANCED GEOMETRY - A&B (MA1082 - MA1083)

Grade: 9

2 credits

Prerequisite: Grade of B or better in Advanced Algebra 1.5 or teacher recommendation

In Advanced Geometry students study topics such as deductive and inductive reasoning, geometric definitions, congruence, similarity, area, volume, and properties of lines, triangles, quadrilaterals and circles. These students will move at a more rapid pace and study topics more in-depth than the Geometry students. Students will be expected to complete daily assignments. Student evaluation will be based on quizzes and tests. A graphing calculator (TI-83 or TI-84) is required.

## ALGEBRA 2 - A&B (MA3071 - MA3072)

Grade: 10-11

2 credits

Prerequisite: Recommended grade of C- or better in all grading periods of Algebra 1.5 and Geometry

In Algebra 2 students explore functions, equations, inequalities, irrational numbers, complex numbers, quadratics, probability and trigonometry. Students will be expected to complete daily assignments. Student evaluation will be based on daily work, quizzes and tests. A graphing calculator (TI-83 or TI-84) is required.

## ADVANCED ALGEBRA 2 - A&B (MA2081 - MA2082)

Grade: 10

2 credits

Prerequisite: Grade of B or better in all grading periods of Advanced Algebra 1.5 and Advanced Geometry or teacher recommendation

In Advanced Algebra 2 students explore functions, equations, inequalities, irrational numbers, rational, expressions, rules of exponents, radicals, complex numbers, quadratics, probability and trigonometry. These students will move at a more rapid pace and study topics more in-depth than the Algebra 2 students. Students will be expected to complete daily assignments. Student evaluation will be based on daily work, quizzes, and tests. A graphing calculator (TI-83 or TI-84) is required.

**FUNCTIONS, STATISTICS & TRIGONOMETRY - A&B** (MA5271 - MA5272)**Grade: 11-12****2 credits**

Prerequisite: Completion of Algebra 2 or recommended grade of C- or better in all grading periods of Algebra 2 Year Long (*Not an option for students who have completed Pre-Calculus or Statistics with a grade of C or better in all grading periods*).

Functions, Statistics & Trigonometry is an elective math course designed for the math student who wants to take a 4<sup>th</sup> math class in preparation for college but is not ready for Pre-Calc or Probability and Statistics. Students will be expected to complete daily assignments. Topics of study will include linear, quadratic, polynomial, and exponential functions along with trigonometry and the probability and statistical concepts of measures of center, independence of events, graphical displays, and rules of probability. Student evaluation will be based on daily work, quizzes, and tests. A graphing calculator (TI-83 or TI-84) is required.

**STATISTICS - A&B** (MA5371 - MA5372)**Grade: 11-12****2 credits**

Prerequisite: Completion of Algebra 2 (*Not an option for students who have completed AP Prob & Stats*)  
Recommended: Grade of C- or better in all grading periods of Algebra 2 or grade of B or better in all grading periods of Algebra 2 Yearlong.

Probability and Statistics is a class that teaches probability and statistical concepts. Students will explore data, model Normal and sampling distributions, describe relationships such as correlation and causation, design and analyze experiments and studies, and will also study random variables, confidence intervals, significance testing, and rules of probability. Evaluation will be based on tests, quizzes, daily work and projects. A graphing calculator (TI-83 or TI-84) is required.

**ADVANCED PLACEMENT STATISTICS - A,B,C** (MA5091, MA5092, MA5093)**Grade: 11-12****3 credits**

Prerequisite: Grade of B or better in all grading periods of Algebra 2/Advanced Algebra 2

Probability and Statistics is a junior/senior level class that teaches probability and statistical concepts. AP Statistics will focus on four major themes: 1) Exploratory Data Analysis, 2) Designing Studies, 3) Probability Models and Simulation, and 4) Statistical Inference. Evaluation will be based on tests, quizzes, daily work and projects. Near the end of the school year, students will have the option to take a test given by the College Board which allows them the possibility of earning college credits. This course will help prepare students to study business, nursing or other medical sciences, social sciences including psychology, engineering, or math after high school. A graphing calculator (TI-83 or TI-84) is required.

**CIS COLLEGE ALGEBRA - A&B** (MA5191 - MA5192)**Grade 11-12****2 credits**

**\*\*College in the School course (see page 4)**

Prerequisite: Completion of Algebra 2 with a grade of C or better, must be ranked top 50% (seniors) and top 33% (juniors)

College Algebra is for students not intending to take any further math courses in college. This course is for non-math and non-science majors, or for students not pursuing a math or science-related degree.

Topics will include equations, inequalities, math modeling, functions and their graphs, polynomial functions, rational functions and conics, exponential and logarithmic functions, systems of equations and inequalities, sequences, series, and probability. This course is worth 3 credits through Southwest Minnesota State University. A graphing calculator (TI-83 or TI-84) is required.

**PRE-CALCULUS - A&B (MA5471 - MA5472)****Grade: 11-12****2 credits**

Prerequisite: Grade of C- or better in all grading periods of Algebra 2 or grade of B or better in all grading periods of Algebra 2 Year Long.

Pre-Calculus is a high-level math course designed for the math student who has been successful in previous mathematics courses. Pre-Calc is taught at a level which prepares students for Calculus I. Students will be expected to complete daily assignments. Students will study linear, quadratic, polynomial, rational, exponential, and logarithmic functions and trigonometry. Student evaluation will be based on daily work, quizzes, and tests. A graphing calculator (TI-83 or TI-84) is required.

**CIS PRE-CALCULUS - A,B,C (MA3091, MA3092, MA3093)****Grade: 11-12****3 credits**

**\*\*College in the school course (see page 4):**

Prerequisite: Grade of B or better in all grading periods of Advanced Algebra 2 or completion of Algebra 2 with teacher recommendation, must be ranked top 50% (seniors) & top 33% (juniors)

In College Pre-Calculus, students will cover polynomial, rational, exponential, logarithmic, and trigonometric functions as well as complex numbers, linear systems, numerical patterns, sequences and series. Concepts are presented and explored from symbolic, graphical, and numerical perspectives. This course is worth 5 college credits through Southwest Minnesota State University. A graphing calculator (TI-83 or TI-84) is required.

**ADVANCED PLACEMENT CALCULUS AB - A,B,C (MA4091, MA4092, MA4093)****Grade: 12****3 credits**

Prerequisite: Grade of C or better in all grading periods of Pre-Calculus or College Pre-Calculus

In AP Calculus AB, students will study the calculus concepts of limits, continuity, and differentiation techniques, applications of derivatives, anti-differentiation, integration of various functions, logarithmic differentiation and integration and more. Students will be evaluated through formative daily work and summative examinations. Near the end of the school year, students will have the option to take a test given by the College Board, which gives them the opportunity to earn college credits. A graphing calculator is required (TI-84 is used in class).

**ADVANCED PLACEMENT CALCULUS BC - A,B,C (MA4191, MA4192, MA4193)****Grade: 12****3 Credits**

Prerequisite: Completion of College Pre-Calculus with an average grade of B+ or better for the three trimesters.

This course covers all of Calculus AB (see above) as well as parametric, polar and vector functions. Additionally, an extensive study of the applications of derivatives and integration is required. Students will also be introduced to Taylor and Maclaurin Series, L'Hopital's Rule and Euler's method for solving differential equations. Near the end of the course students will have the option to take a test given by the College Board which allows the possibility of earning college credit. Students will be evaluated through formative daily work and summative examinations. A graphing Calculator is required (TI-84 is used in class).

**MATH TEACHER APPROVAL IS REQUIRED FOR THE FOLLOWING COURSES:**

**ALGEBRA 1.5 YEAR LONG - A, B, C** (MA1061, MA1062, MA1063)  
**3 credits (Year long course with 2 math credits and 1 elective credit possible)**  
This course will cover the Algebra 1.5 Curriculum in 3 trimesters vs. 2 trimesters.

**Grade: 9**

In Algebra 1.5 students review topics learned in Math 8 and study topics such as exponents, factoring, quadratic functions, radicals, polynomials, rational expressions & equations, graph transformations, and probability and statistics. Students will be expected to complete daily assignments. Student evaluation will be based on daily work, quizzes, and tests. A scientific or graphing calculator is required.

**GEOMETRY YEAR LONG - A,B,C** (MA2061, MA2062, MA2063)  
**3 credits (Year long course with 2 math credits and 1 elective credit possible)**  
This course will cover the Geometry Curriculum in 3 trimesters vs. 2 trimesters.  
Prerequisite: Completion of 2<sup>nd</sup> & 3<sup>rd</sup> trimester of Algebra 1.5 Year Long.

**Grade: 10**

In Geometry students study topics such as deductive and inductive reasoning, geometric definitions, congruence, similarity, area, volume, and properties of lines, triangles, quadrilaterals and circles. Students will be expected to complete daily assignments. Student evaluation will be based on daily work, quizzes, and tests. A scientific or graphing calculator is required.

**ALGEBRA 2 YEAR LONG - A,B,C** (MA3061, MA3062, MA3063)  
**3 credits (Year long course with 2 math credits and 1 elective credit possible)**  
This course will cover the Algebra 2 Curriculum in 3 trimesters vs. 2 trimesters.  
Prerequisite: Completion of Algebra 1.5 Year Long and Geometry Year Long

**Grade: 11**

In Algebra 2 students explore functions, equations, inequalities, irrational numbers, complex numbers, quadratics, probability and trigonometry. Students will be expected to complete daily assignments. Student evaluation will be based on daily work, quizzes and tests. A graphing calculator (TI-83 or TI-84) is required.

# MUSIC

## **CANTABILE CHOIR - A,B,C (MU1011, MU1012, MU1013)**

**Grade: 9**

**3 credits**

Cantabile is an introductory choir for Sopranos and Altos in grade 9. Students will be introduced to music as they learn the basic skills that will enable them to have a successful performance. These skills include sight-singing, rhythmic analysis and proper vocal technique. Students will experience music of many styles, languages, genres and difficulty levels. They will be expected to perform in concerts, attend lessons and write music critiques on performances. Students will be evaluated on participation in the group, musicianship, sight-singing, lesson attendance and written work.

## **TROUBADOURS - A,B,C (MU1021, MU1022, MU1023)**

**Grade 9**

**3 credits**

Troubadours is an introductory choir for Tenors and Basses in grade 9. Students will be introduced to music as they learn the basic skills that will enable them to have a successful performance. These skills include sight-singing, rhythmic analysis and proper vocal technique. Students will experience music of many styles, languages, genres and difficulty levels. They will be expected to perform in concerts, attend lessons and write music critiques on performances. Students will be evaluated on participation in the group, musicianship, sight-singing, lesson attendance and written work.

## **KNIGHTS CHORUS - A,B,C (MU5001, MU5002, MU5003)**

**Grade: 10-12**

**3 credits**

Audition Required

Knight's Choir is an introductory choral experience for Tenors and Basses in grades 10-12. Students will be introduced to music as they learn the basic skills that will enable them to have a successful performance. These skills include sight-singing, rhythmic analysis and proper vocal technique. Students will experience music of many styles, languages, genres and difficulty levels. They will be expected to perform in concerts, attend lessons and write music critiques on performances. Students will be evaluated on participation in the group, musicianship, sight-singing, lesson attendance and written work. Depending on numbers, Knights Choir may be combined with Bella Voce to create Mixed Choir.

## **BELLA VOCE - A,B,C (MU5111, MU5112, MU5113)**

**Grade 10-12**

**3 credits**

Audition Required

Bella Voce is an introductory choral experience for women in grades 10-12. Students will be introduced to music as they learn the basic skills that will enable them to have a successful performance. These skills include sight-singing, rhythmic analysis and proper vocal technique. Students will experience music of many styles, languages, genres and difficulty levels. They will be expected to perform in concerts, attend lessons and write music critiques on performances. Students will be evaluated on participation in the group, musicianship, sight-singing, lesson attendance and written work. Depending on numbers, Bella Voce may be combined with Knights Choir to create Mixed Choir.

## **VIVACE - A,B,C (MU5031, MU5032, MU5033)**

**Grade: 10-12**

**3 credits**

Audition Required

Vivace is an accelerated choir for Sopranos and Altos in grades 10-12. Students will experience music of many styles, languages, genres and difficulty levels. They will be expected to perform in concerts, attend lessons and write music critiques on performances. Students will be evaluated on participation in the group, musicianship, sight-singing, lesson attendance and written work. Singers in Vivace tour annually and often perform at a variety of events outside of the school day. Additionally, singers will participate in State Solo/Ensemble Contest and State Large Group Contest.

**CONCERT CHOIR - A,B,C** (MU5101, MU5102, MU5103)**Grade: 10-12****3 credits**

Audition Required

Concert Choir is an accelerated mixed choir, consisting of Sopranos, Altos, Tenors, and Basses in grades 10-12. Students will experience music of many styles, languages, genres and difficulty. They will be expected to perform in concerts, attend lessons and write music critiques on performances. Students will be evaluated on participation in the group, musicianship, sight-singing, lesson attendance and written work. Singers in Concert Choir tour annually and often perform at a variety of events outside of the school day. Additionally, singers will participate in State Solo/Ensemble Contest and State Large Group Contest.

**CONCERT BAND - A,B,C** (MU1031, MU1032, MU1033)**Grade: 9****3 credits**Audition required (9<sup>th</sup> graders who were involved in band in middle school will be admitted without an audition)

In Concert Band students will be introduced to high school level band music and will be exposed to, and involved in performance experiences. Students will develop basic skills that will enable them to perform successfully. Some of these skills include proper instrumental technique, sight-reading, rhythmic analysis, and scale exercises. Students will be expected to perform in concerts, pep bands, attend lessons, and write music critiques on their performances.

**SYMPHONIC BAND - A,B,C** (MU5131, MU5132, MU5133)**Grade: 10-12****3 credits**

Audition required

In Symphonic Band students will be performing intermediate-level high school music in a large group setting as well as performing solos and small ensembles. Students will continue to develop basic skills that will enable them to perform successfully. Some of these skills include proper instrumental technique, sight-reading, rhythmic analysis, and scale exercises. Students will be expected to perform in concerts and pep bands, and write critiques on their performances.

**WIND ENSEMBLE - A,B,C** (MU5011, MU5012, MU5013)**Grade: 10-12****3 credits**

Audition Required

In Wind Ensemble students will be performing advanced high school music in a large group setting as well as performing solos and small ensembles. Students will continue to develop basic skills that will enable them to perform successfully. Some of their skills include proper instrumental technique, sight-reading, rhythmic analysis, and scale exercises. Students will be expected to perform in concerts, pep bands, attend lessons, and write music critiques on their performances.

**ADVANCED PLACEMENT MUSIC THEORY - A&B** (MU5091, MU5092)**Grade: 10-12****2 credits**

Prerequisite for Trimester II: Successful completion of trimester I

AP Music Theory is designed for the advanced music student who is interested in further developing his/her knowledge of music structure. Students will learn about chord structure, melodic and harmonic progressions, rhythmic patterns, and other compositional devices, and how they are used in music. They will also develop aural, sight-singing, written, compositional, and analytical skills. Students will also be evaluated on their participation in class, daily worksheets, and tests. Students entering the class should be able to read music.

**GARAGE BAND 101** (MU5121)**Grade: 10-12****1 credit**

In Garage Band 101 students will have the opportunity to form small “garage bands” to perform popular music as well as original music. Students will learn the basic music theory necessary to play an instrument and write simple rock music. Students will also be exposed to the history of popular music from the early 1900’s to present day. Students must have some basic skills on an instrument before entering the class. Students will be evaluated on participation in class, written work, quizzes, and a history project. Students will also finish off the class by performing in a final concert.

**CLASS GUITAR (MU5122)**

**Grade: 10-12**

**1 credit**

This course is designed for students who wish to develop basic guitar playing skills, including chords, note reading, and tablature. Time in class will be spent both on and off the guitar. While playing, students will be working individually and in small groups to master the techniques of playing and to learn pieces. There will also be time spent in group instruction on musical notation and theory. No prior experience is needed to enroll in this class.

**COMBINED BAND & CHOIR COURSE NUMBERS:**

**CONCERT BAND & CANTABILE CHOIR - A,B,C (MU1101, MU1102, MU1103)**

**3 credits**

**CONCERT BAND & TROUBADOURS - A,B,C (MU1111, MU1112, MU1113)**

**3 credits**

**SYMPHONIC BAND & BELLE VOCE CHOIR - A,B,C (MU5211, MU5212, MU5213)**

**3 credits**

**SYMPHONIC BAND & KNIGHTS CHOIR - A,B,C (MU5201, MU5202, MU5203)**

**3 credits**

**WIND ENSEMBLE & CONCERT CHOIR - A,B,C (MU5021, MU5022, MU5023)**

**3 credits**

**NOTE:** Availability of combined band and choir courses will be determined by numbers of registrants. Students signing up for choir or band must register for all three trimesters.

# **PHYSICAL EDUCATION**

## **FRESHMEN**

### **PHYSICAL EDUCATION 9 (PH1000)**

**Grade: 9**

**1 credit**

This class will provide students with the skills, knowledge and motivation to live physically active lives. The focus will be on cardio-respiratory endurance, bone and muscle strengthening, body composition, and flexibility. Students will alternate between strength training and cardiovascular workouts throughout the week. In addition, there will be weekly 20 minute fitness runs. Fitness tests, including the mile, sit-ups, pull-ups, wall sits, and push-ups, will be graded three times throughout the trimester. There will be a written test at the end of the trimester.

## **SOPHOMORES**

Students who choose to take Strength and Conditioning 10 can also register for Competitive Physical Education 10 OR Recreational Physical Education 10. Students may **NOT** register for both competitive 10 and Recreational 10.

### **COMPETITIVE PHYSICAL EDUCATION 10 (PH2020)**

**Grade: 10**

**1 credit**

Prerequisite: Physical Education 9

Students who register for this class should be motivated to do their best in competition and enjoy striving to win. Competitive Physical Education 10 will continue to reinforce the fitness concepts learned in Physical Education 9, while also covering various individual, dual, and team sports units. Units may include: badminton, pickleball, volleyball, basketball, softball, ultimate Frisbee, and soccer/speedball. There will be weekly 20 minute fitness runs. This class will also include the following fitness tests, administered three times per trimester: mile run, push-ups, sit-ups, wall sits and pull-ups.

### **RECREATIONAL PHYSICAL EDUCATION 10 (PH2030)**

**Grade: 10**

**1 credit**

Prerequisite: Physical Education 9

Students who register for this class may be less motivated by competition while striving to do their best and instead want to participate in the sport units to get a workout and focus more on having fun than winning and losing. Recreational Physical Education 10 will continue to reinforce the fitness concepts learned in Physical Education 9, while also covering various individual, dual, and team sports units. Units may include: badminton, pickleball, volleyball, basketball, softball, ultimate Frisbee, and soccer/speedball. While this class will be less competitive, it will require the same level of effort as Competitive Physical Education 10. There will be weekly 20 minute fitness runs. This class will also include the following fitness tests, administered three times per trimester: mile run, push-ups, sit-ups, wall sits and pull-ups.

### **STRENGTH AND CONDITIONING 10 (PH2100)**

**Grade: 10**

**1 credit**

Prerequisite: Physical Education 9

Strength and Conditioning 10 will continue to reinforce the fitness concepts learned in Physical Education 9. Students who register for this class should enjoy participating in resistance training and cardio activities on a daily basis. Different from Competitive and Recreation 10, this class will not have scheduled game days. Students can plan to wear the heart rate monitors for various workouts throughout the trimester. In addition, there will be weekly 20 minute fitness runs. This class will also include the following fitness tests, administered three times per trimester: muscular strength, mile run, push-ups, sit-ups, wall sits and pull-ups, along with weekly assessments to gauge increases in overall muscular strength.

## **JUNIORS/SENIORS**

**Juniors & seniors can only register for three elective Physical Education classes per year**

### **PERSONAL FITNESS (PH5100)**

**Grade: 11-12**

**1 credit**

Prerequisite: Any Physical Education 10 course

This class continues the fitness focus from the 9<sup>th</sup> and 10<sup>th</sup> grade classes, and has been designed for motivated students to provide the knowledge and training techniques to improve strength and fitness. Students can expect weekly fitness runs and other cardio-respiratory training, as well as weekly strength training in the fitness center. Students will learn and master a variety of muscle and bone strengthening exercises. Testing will include the push-ups, wall sit, pull ups, sit-ups, mile run. Students will also research and develop their own weekly fitness training plans. Guest instructors from the community will also lead and educate students in a wide variety of workouts.

### **TEAM SPORTS (PH5000)**

**Grade: 11-12**

**1 credit**

Prerequisite: Any Physical Education 10 course

Students will be required to use advanced athletic concepts in their team activities, such as various types of offense and defense. Their understanding of and participation in these concepts will be factored into their assessment. Skills Testing, written tests, and advanced effort (determined with or without the use of heart rate monitors) will be a portion of the assessment in this class. Written evaluations will be given during the units of basketball, volleyball, ultimate Frisbee, and softball/wiffle ball. Other units offered will depend upon the time of the year the class is taken.

### **NETS AND RACQUETS (PH5020)**

**Grade: 11-12**

**1 credit**

Prerequisite: Any Physical Education 10 course

In this course students will participate in the fundamental skills involved in Badminton, Pickleball and Tennis. Skills testing, tournament results and daily participation will be the basis of grade assessment.

### **BODY SHAPING AND TONING (PH5010)**

**Grade: 11-12**

**1 credit**

Prerequisite: Any Physical Education 10 course

This class continues the fitness focus from the 9<sup>th</sup> and 10<sup>th</sup> grade classes and strives to prepare, educate, and motivate students to continue participating in health-enhancing activities after high school. Students will participate in low-impact training through various aerobic and muscle and bone strengthening workouts. Body weight, machine, and platform workouts will be utilized along with Tabata, Pilates, EMOM, AMRAP, Yoga, P90X and Insanity videos. Students can expect weekly heart rate monitor runs ranging from 20-30 minutes. Fitness tests will include mile, push-ups, sit-ups, pull-ups, and wall sit. They will be graded three times throughout the trimester. Students will create a workout plan based on their own goals. That plan will be implemented in the second half of the trimester to guide their workouts. This class is geared towards students who are self-motivated and wanting to improve or maintain fitness. Guest instructors from the community are involved as well.

### **POWER VOLLEYBALL (PH5030)**

**Grade: 11-12**

**1 credit**

Prerequisite: Any Physical Education 10 course

This class will focus on all aspects of the game of volleyball. Some knowledge and skills of volleyball are expected prior to the class. Skills such as passing, setting, serving and hitting will be taught and assessed throughout the trimester. Various offensive and defensive skills will also be addressed. Small sided and regulation games will be implemented in this class. Learning the rules and officiating the game of volleyball will also be a portion of the class. Skills testing, tournament results, effort and a written final will be used as grading evaluation.

# SCIENCE

## STMA SCIENCE GRADUATION REQUIREMENTS:

2 credits: [grade 9] Physical Science or Advanced Physical Science

2 credits: [grade 10] Biology or Advanced Biology

2 credits: [grade 11-12] Chemistry or Physics (see choices and requirements in this book)

## CHEMISTRY/PHYSICS GRADUATION REQUIREMENTS:

### STUDENTS ARE REQUIRED TO TAKE EITHER CHEMISTRY OR PHYSICS

- Students who plan to take both Chemistry and Physics will need to take a Chemistry course as a junior and a Physics course as a senior or take them both their junior year.
- Students who plan to take only Chemistry will need to take a Chemistry course their junior year.
- Students who plan to take only Physics will need to take a Physics course their junior year.
- Advanced Placement Physics C is a senior elective. Students will need to take a Chemistry course their junior year then Advanced Placement Physics C their senior year.

### PHYSICAL SCIENCE - A&B (SC1071 - SC1072)

Grade: 9

2 credits

Students will be introduced to physical science concepts through hands-on, inquiry based instruction, using graphical interpretation and algebra to solve physics problems. This course is intended to provide a solid foundation of physical science for all students and give students the confidence for further study of physics.

### ADVANCED PHYSICAL SCIENCE - A&B (SC1081 - SC1082)

Grade: 9

2 credits

Prerequisite: Criteria for selection is based on teacher recommendation, selection for 9<sup>th</sup> grade Advanced Algebra 1.5, and MCA math scores.

This course is for students who have a strong background in math and science and want to further improve their problem solving and data interpretation skills to be more prepared for the science portion of the ACT as well as further study in physics. Students will be introduced to physics concepts through laboratory investigations and student designed experiments. Students will cover all of the topics addressed in physical science as well as two-dimensional motion, rotational and circular motion, and Universal Gravitation. Our emphasis will be on data interpretation as well as algebra based problem-solving. This course will prepare students to take AP physics in their junior or senior year.

### BIOLOGY - A&B (SC2071 - SC2072)

Grade: 10

2 credits

Prerequisite: Physical Science or Advanced Physical Science

During this course, students will learn about life processes through these units: biochemistry, cells, ecology, DNA, genetics, evolution, & dissections. This class is hands-on and laboratory based to better understand science in daily life and to prepare students in biological concepts for the Science MCA -III in the spring.

### ADVANCED BIOLOGY - A&B (SC2081 - SC2082)

Grade: 10

2 credits

Prerequisite and Selection Process: Staff members of the science department will evaluate each potential Advanced Biology student based upon Physical Science/Advanced Physical Science grades, GPA, results of MCA and/or NWEA tests

Advanced Biology will take a comprehensive, in-depth look at the cellular, genetic and ecological basis of life. This fast-paced class will utilize advanced reading and writing skills, into the topics of: Biochemistry, cells, genetics, organism diversity and ecology. This class is geared for a student with a great interest in biology who is possibly looking at pursuing a career in the biological science field.

**ADVANCED PLACEMENT (AP) BIOLOGY - A,B,C (SC5091, SC5092, SC5093)****Grade: 11-12****3 credits**

Prerequisites: Biology

Strongly recommended: Completion or currently enrolled in Chemistry

This is a rigorous college-level course designed for students who are highly motivated and interested in biology topics. It will include topics covered in 10<sup>th</sup> grade Biology, but at greater depth. Students will complete lab work, analyze case studies, design investigations, and read current scientific literature about topics including ecology, biochemistry, cell function and communication, body systems, genetics, and evolution. This course has a strong focus on critical reading and analysis, and an emphasis on not only understanding science but applying content and skills to new and varied situations. Near the end of the course, students will have the option to take the A.P. Exam, which allows the possibility of earning college credit. Experiences throughout this course will equip students with biological knowledge and scientific inquiry skills needed for success on the AP Exam and in college biology courses.

**\*\*A.P. Biology 2-Trimester Option (SC5091 - SC5092)**

- This option is designed for students who have a strong desire to take the course but cannot fit all three trimesters into the schedule.
- Students must have pre-approval from the course instructor or a guidance counselor. Students would be responsible for learning the remaining information and preparing for the AP Exam on their own during trimester 3, with the help and guidance from the course instructor.

**GEOLOGY (SC5000)****Grade: 10-12****1 credit**

Prerequisites: Physical Science or Advanced Physical Science

Geology is the study of the processes and materials that shape the earth. This course relies on a variety of activities to explore those materials (minerals and rocks), the forces that shape the earth, and geologic time. Students will be challenged with a variety of laboratory activities. The emphasis of lab work will be reflected in the tests, quizzes, and general class assignments.

**ASTRONOMY (SC5010)****Grade: 10-12****1 credit**

Prerequisites: Physical Science or Advanced Physical Science

This course examines the history of astronomy, movements of earth and moon, the Sun's structure and features, and current evidence and observations related to the Solar System, the Milky Way Galaxy, and the universe. Students will use a variety of models to explore location and movements of objects in space.

**ENVIRONMENTAL SCIENCE - A&B (SC5021 - SC5022)****Grade: 11-12****2 credit**

Prerequisite: Biology

In Environmental Science students will study the relationships between living things and their environment. Students will investigate the topics of ecology, wetlands, biodiversity and human impact on our surroundings. An issues-based approach will be used to investigate food production, energy and the concept of sustainable development.

**ANATOMY & PHYSIOLOGY - A&B (SC5031 - SC5032)****Grade: 11-12****2 credits**

Prerequisite: Biology or Advanced Biology

This course is designed for students wishing to pursue a career in the medical or science field. Extensive memorization of medical terminology and anatomical structures is required. Topics include human body organization, homeostasis, histology, and organ systems. Evaluation will be based on written assignments, patient diagnoses, organ dissections, and laboratory investigations.

**CHEMISTRY - A&B (SC3071 - SC3072)****Grade: 11****2 credits**

Prerequisites: Biology and completion or currently enrolled in Algebra 2, C or better in Algebra 1.5 or teacher recommendation for year long Algebra students.

In this college preparatory chemistry course, students will study concepts, theories, and principles in chemistry through investigation and analysis. Students will complete lab work, solve problems, and read information about atomic theory, relationships between structure and properties of matter, chemical reactions, gas laws, and interactions of energy and matter. Evaluation will be based on classroom participation, written assignments, and lab work.

**Graduation Requirement Note: See page 31 for details.**

**CONCEPTUAL CHEMISTRY - A&B (SC3171 - SC3172)****Grade: 11****2 credits**

Prerequisite: Biology

This course will cover chemistry concepts while focusing on real-life applications of chemistry. Students will complete lab work, solve problems, and do investigations. Topics to be explored include, structure and properties of matter, atomic theory, chemical reactions, gas laws, and energy. Evaluation will be based on classroom participation, written assignments and lab work. **Graduation Requirement Note: See page 31 for details.**

**CIS CHEMISTRY - A&B (SC3091 - SC3092)****Grade: 11****2 credits**

**\*\*College in the school course (see page 4)**

Prerequisites: Biology, completion or currently enrolled in Algebra 2, top 50% of class (senior), top 33% of class (junior)

In this college level chemistry course, students will study concepts, theories, and principles in chemistry through investigation and analysis. Students will complete lab work, solve problems, and read information about atomic theory, relationships between structure and properties of matter, chemical reactions, gas laws, interactions of energy and matter, redox reactions, and electrochemistry.

This course offers an in-depth view of chemistry. The course will stress test and lab grades. Emphasis is placed on accelerated pacing, in-depth coverage, interdisciplinary study, scientific thinking skills. This course emphasizes the experimental nature of chemistry. Laboratory work is important in this course. Strong skills in math, reading, and writing are necessary.

Students will be eligible to receive four college credits through St. Cloud State University. Credits will be given for the Preparatory Chemistry – Chem 160 course and meet general laboratory credits at St. Cloud State University. A grade of “C” or better must be attained to transfer credits to other higher education institutions.

**Graduation Requirement Note: See page 31 for details.**

**PHYSICS - A&B (SC5011 - SC5012)****Grade: 11-12****2 credits**

Prerequisite: Completion of Algebra 1.5 with a B average or Completion of Algebra 2

Practical applications and demonstrations, along with student designed projects and lab work, are used to explore the basic ideas of physics. Topics in motion, mechanics, energy, wave behavior, optics, electricity, as well as modern and nuclear physics, will be studied.

**Graduation Requirement Note: See page 31 for details.**

**ADVANCED PLACEMENT PHYSICS - 1A & 1B (SC5191-SC5192)****Grade: 11-12****2 credits**

Prerequisite: Completion of Algebra 2 with at least a B average

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate understanding of physics through inquiry-based investigations as they explore topics such as Newtonian Mechanics (including rotational motion), work, energy, power, mechanical waves and sound, and introductory circuits. This course is for students who wish to gain advanced standing or college credit in a physics course that is not calculus based. This course is a good fit for science majors who are not pursuing engineering/physics degree (i.e. pre-medical majors).

**Graduation Requirement Note: See page 31 for details.**

**ADVANCED PLACEMENT PHYSICS - C-A & C-B (SC4091 - SC4092)**

**Grade: 12**

**2 credits**

Prerequisite: Concurrent enrollment in AP Calculus or permission from the instructor

AP Physics is comparable to a first-year calculus-based college physics class. Students will be given the opportunity to take the AP test in May. Successful completion of this test will allow students to gain advanced standing and credit in college physics at most colleges. The course will equip students with laboratory and problem-solving skills needed for success on the AP exam and in college physics. Problem solving will rely on introductory differential and integral calculus throughout the course. The course focuses entirely on mechanics and will provide instruction in each of the following six content areas: Newton's laws of motion, work, energy, power, systems of particles and linear momentum, circular motion and rotation, and oscillations and gravitation.

***Graduation Requirement Note: See page 31 for details.***

# **SOCIAL STUDIES**

## **HUMAN GEOGRAPHY (SS1070)**

**Grade: 9**

**1 credit**

Human Geography is a single trimester course required for all freshmen. This course focuses on human geography, which places an emphasis on population, culture, urban, agriculture, economics, and political units. Students will participate in class discussions, small group work, and whole class activities. Students will be evaluated on formative and summative assessments, as well as class participation.

## **EARLY AMERICAN HISTORY (SS1170)**

**Grade: 9**

**1 credit**

Early American History is a single trimester course required for all freshmen. Students will trace American history from the Era of Exploration in the 15<sup>th</sup> century through the Civil War and Reconstruction. Students will participate in class discussions as well as small group and whole class activities. Students will be evaluated on classroom participation along with both formative and summative assessments.

## **U.S. HISTORY - A&B (SS2071 - SS2072)**

**Grade: 10**

**2 credits**

Prerequisite: Early American History

U.S. History is required for all sophomores. Students will review pre-Civil War ideas and then investigate in more depth the events and concepts from Industrialization to the present. Students will participate in class discussions as well as small group and whole class activities. Students will be evaluated on classroom participation, completion of daily assignments, written work, quizzes and/or tests.

## **ADVANCED PLACEMENT U.S. HISTORY - A,B,C (SS2091, SS2092, SS2093)**

**Grade: 10**

**3 credit**

Prerequisite: Grade of B or higher in Early American History and completion of a document-based essay question.

The AP US History course will follow the course outline created by the College Board, preparing the students to take the test in May if they desire. The course covers American history from pre-columbian times to the present. The course outline follows the topics in the regular US History course closely, but this course goes into greater detail in each unit. Students should like to read history, both in the textbook and primary document forms, and should be prepared to work hard on their writing skills in anticipation of doing well on the national test in the spring.

Students should understand this course requires above average writing skills. Students will be notified of the document-based essay question writing times during the registration process, and will have to write the essay before the registration process is completed in early February. A committee of social studies teachers will evaluate the essays and select the members of this class shortly thereafter.

## **AMERICAN GOVERNMENT (SS3070)**

**Grade: 11**

**1 credit**

Prerequisite: US History

American Government is required for all juniors. Students will study the American Government's roots, institutions and processes. Students will engage in Principles of American Government using classroom discussions, small group work and writing. Students will be evaluated on completion of daily assignments, unit tests, and a research-based presentation.

**ADVANCED PLACEMENT US GOVERNMENT AND POLITICS A&B (SS5091 - SS5092)**

**Grade: 11-12**

**2 credits**

Prerequisite: B average or better in Geography and US History

The AP U.S. Government and Politics course will follow the course outline created by the College Board and will prepare students to take the corresponding AP exam in the spring should they choose to do so. AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. The course provides students with the political knowledge and reasoning processes to participate meaningfully and thoughtfully in discussions and debates that are currently shaping American politics and society.

It is important to note that this course is not a history course; rather, it is a political science course that studies the interconnectedness of the different parts of the American political system and the behaviors and attitudes that shape this system. AP U.S. Government and Politics frames the acquisition of political knowledge around enduring understandings and big ideas about American government and politics that can be applied to a set of disciplinary practices through the use of a set of reasoning processes. By the end of the course, students will be able to analyze current and historical political events like a political scientist and develop factually accurate, well-reasoned, thoughtful arguments and opinions that acknowledge and grapple with alternative political perspectives. Additionally, students will complete a political science or applied civics project.

**ECONOMICS (SS3170)**

**Grade: 11**

**1 credit**

Prerequisite: US History

Economics is required for all juniors. Students will study how individuals, households, businesses and governments use scarce resources to satisfy unlimited wants and needs. Students will engage in Economics using classroom discussions, small group work and writing. Students will be evaluated on completion of daily assignments, written work, projects, quizzes and tests.

**\*\*\*THE FOLLOWING TWO COURSES ARE OFFERED ON A ROTATING YEAR SCHEDULE\*\*\***

**ADVANCED PLACEMENT MICROECONOMICS A&B (SS5291 - SS5292)**

**Grade: 11-12**

**2 credits**

Prerequisite: B average or better in Geography & U.S. History and recommendation from a social studies teacher.

The AP Microeconomics course will follow the outline created by the College Board, preparing students to take the AP Microeconomics exam in the spring if they choose to do so. AP Microeconomics is designed to provide a learning experience equivalent to that of a typical college introductory microeconomics course. The course is intended to give students a thorough understanding of principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature of functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy.

**ADVANCED PLACEMENT MACROECONOMICS A&B (SS5191 - SS5192)**

**Grade: 11-12**

**2 credits (This course will be offered during 2022-2023)**

Prerequisite: B average or better in Geography & U.S. History and recommendation from a social studies teacher.

The AP Macroeconomics course will follow the outline created by the College Board, preparing students to take the AP Macroeconomics exam in the spring if they choose to do so. AP Macroeconomics is designed to provide a learning experience equivalent to that of a typical college introductory macroeconomics course. The course focuses on the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination; it also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

Taking either AP Microeconomics or AP Macroeconomics fulfills the regular Economics requirement at STMA high school. Also, these courses are available to seniors even if they have already fulfilled the Economics requirement.

**WORLD HISTORY A (SS4071)****Grade: 12****1 credit**

Prerequisite: US History

World History I is required for all seniors. Students in World History I will study the period from the beginning of civilization through about the year 1800. They will study early empires including some in India, China, Greece, Rome, the Americas, and Asia. They will study the growth of these areas and the interconnections that develop between them as globalization brings people together around the world. Students will be evaluated on classroom participation, completion of daily assignments, quizzes and/or tests, and some project work related to the course.

**WORLD HISTORY B (SS4072)****Grade: 12****1 credit**

Prerequisite: World History A

World History II is required for all seniors. Students in World History II will study the eras after the year 1800. Studies will include the growth of western domination of the world in conjunction with the growing industrial/technological society, and revolutionary changes in the world that led to wars with a world wide scope. Students will study the diverse people and cultures as they see these events playing out throughout the course. Students will be evaluated on classroom participation, completion of daily assignments and written work, quizzes and/or tests, and some project work related to the course.

**ADVANCED PLACEMENT WORLD HISTORY A, B, C (SS5491, SS5492, SS5493)****Grade: 11-12****3 credits**

Prerequisite: B average or better in Geography, Early American History, and U.S. History

The AP World History course will follow the outline created by the College Board, preparing students to take the test for World History in the spring if they desire. The course covers world history from 1200 to the present. The student who takes this course should enjoy history, be willing to read large amounts of information in a short time period, and be prepared to discuss issues and write essays throughout the class. Taking the AP exam for college credit in May is an option for the student to consider, but is not a requirement for successful completion to earn high school credit. Taking AP World History fulfills the regular World History requirement at STMA High School.

**Seniors planning on taking both AP English and AP World History should use course #SS5593 in place of the third course #SS5493.**

**GREEKS AND ROMANS (SS5170)****Grade: 11-12****1 credit**

Prerequisite: U.S. History

In Greeks and Romans, students will understand the significance of events and themes across cultures and time. Students will analyze the ancient Roman and Greek societies to understand the roots of western civilization. They will trace developments in government, philosophy, science, the arts, and technology that play an important role in the nations of the western world today. Students will be evaluated on classroom participation, completion of daily assignments and written work, quizzes and/or tests, and some project work related to the themes studied in the class.

**SOCIOLOGY (SS5370)****Grade: 11-12****1 credit**

Prerequisite: U.S. History

Students in Sociology will develop an ability to think critically and to analyze everyday events through the sociological perspective which emphasizes people's thoughts, motivations, and actions which are strongly influenced by the social interaction of the groups to which they belong. This course will concentrate on the ways that people relate to one another and influence each other's behavior. Sociology is always a group focus, not an individual focus. Students will be evaluated on classroom participation, completion of unit homework assignments, unit exams, and three unit projects, an experiment, oral presentation, and a research paper.

**PSYCHOLOGY (SS5270)**

**Grade: 11-12**

**1 credit**

Prerequisite: U.S. History

Students in Psychology will use observation and theory to study human interaction, learning, development, and psychological disorders. Students will analyze how personalities develop and how people best interact with each other. Students will work in groups and participate in discussions in order to meet course objectives. Students will be evaluated on completion of daily assignments and written work, quizzes and/or tests.

**ADVANCED PLACEMENT PSYCHOLOGY A&B (SS5391 - SS5392)**

**Grade: 11-12**

**2 credits**

Prerequisite: B average or better in Geography, Early American History, and U.S. History

The purpose of the Advanced Placement course in Psychology is to introduce students to the systematic and scientific study of the behavioral 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 fields of psychology. Students also learn about the methods psychologists use to explore the processes involved in normal and abnormal perceptions, thoughts, feelings and actions. In addition, this course will prepare students to take the Advanced Placement exam in May. Students will be evaluated on classroom participation, completion of daily assignments and written work, quizzes and/or tests. Taking the AP exam for college credit in May is an option for students to consider, but is not a requirement for successful completion to earn high school credit.

# **SPECIAL EDUCATION**

**Special Education classes are only available to students with an IEP and approval of the student's case manager.**

## **FRESHMAN STRATEGIES (SP1001)**

**Grade: 9**

**1 credit**

The class is designed to assist 9<sup>th</sup> grade students who receive special education services, transition to the high school. Students will learn about the basic academic, behavioral, and social expectations required in order to be a successful student at STMA High School. In addition, students will learn how the IEP process works, understanding their specific educational needs and how to advocate for their needs. The course also provides students with independent work time focusing on homework completion. This is a time to work on quizzes, tests and projects from other classes as needed. If schedule allows, students can be pulled from class for related services such as social work and speech.

## **TRANSITION STRATEGIES A, B, C (SP5001, SP5002, SP5003)**

**Grade: 9-12**

**1-3 credits**

This course provides time to complete assignments from other classes and/or finish tests. Study skills, transition to independence skills, and test taking skills will be reinforced during this class. Students will have access to minimal support during this class, but it is expected that students will work independently.

## **READING STRATEGIES (SP5021, SP5022, SP5023)**

**Grade: 9-12**

**1-3 credits**

This course is designed to strengthen the basic components of reading in an individualized program. Also, specific IEP reading goals will be worked on. The curriculum includes topics such as main idea, inferences, details, author's purpose, vocabulary, and comprehension. These topics will be covered through a variety of curriculum. In addition to the reading curriculum, this class will be combined with an Independent Strategies which is a time to complete assignments from other classes and/or finish tests.

## **WRITING STRATEGIES (SP5031, SP5032, SP5033)**

**Grade: 9-12**

**1-3 credits**

This is a basic course that investigates the writing process and strategies to improve writing. The curriculum includes word formation, paragraph writing, sentence writing, and essay writing, among other topics. The development of a five-paragraph essay will be covered including sentences/thesis statement, detail/supporting ideas, conclusions and transitions. We will use journaling and reading for the purposes of writing to improve writing ability. The class will also provide about 30 minutes for independent work, which provides students with time and assistance for study skills and homework completion skills.

## **ENGLISH ESSENTIALS A&B (SP5211 - SP5212)**

**Grade: 9-12**

**2 credits**

This level 1 course is designed to help students strengthen their reading and writing skills. The course will be individualized to student needs. Curriculum topics include but not limited to, main idea, comprehension, simple sentence and paragraph writing. Some of the activities students will complete daily are: writing assignments, reading a novel, and a reading program.

## **ENGLISH ESSENTIALS A&B (SP5221 - SP5222)**

**Grade: 9-12**

**2 credits**

This level 2 course is designed to help students strengthen their reading and writing skills. The course will be individualized to student needs. Curriculum topics include but not limited to, main idea, comprehension, simple sentence and paragraph writing. Some of the activities students will complete are: daily writing assignments, reading a novel, and a reading program.

**Special Education classes are only available to students with an IEP and approval of the student's case manager.**

**ENGLISH ESSENTIALS A&B (SP5231 - SP5232)**

**Grade: 9-12**

**2 credits**

This level 3 course is designed to help students strengthen their reading and writing skills. The course will be individualized to student needs. Curriculum topics include but not limited to, main idea, comprehension, paragraph and essay writing. Some of the activities students will complete are: daily writing assignments, reading a novel, and a reading program.

**MATH ESSENTIALS A,B,C (SP5111, SP5112, SP5113)**

**Grade: 9-12**

**3 credits**

This level 1 course consists of lessons made from math Triumphs Curriculum and supplemental material. Students will practice together for part of each lesson and will have independent work to complete. Concepts related to student's IEP goals will be taught. Students will review basic skills in the areas of need. Topics include: whole number operations, fractions, decimals, percents, ratios, problem solving and basic geometry concepts. Students will be evaluated on daily work and progress. (Students do not need to have taken this course before taking level 2, but a teacher recommendation is necessary.)

**MATH ESSENTIALS A,B,C (SP5121, SP5122, SP5123)**

**Grade: 9-12**

**3 credits**

This level 2 course consists of a textbook made up of a series of daily lessons broken into two parts: class time practice and independent work. Students will practice together for a part of each lesson and will have independent work time to complete work on their own. The course will continue to develop the skills gained from level 1. Students will continue to work on solving problems leading to algebraic equations and using formulas related to geometry as a primary focus of this class. Supplemental material will be provided in the areas of need with a focus on word problems and generalizing to "real world" application of topics. (Students do NOT need to have taken this course before taking level 3, but a teacher recommendation is necessary).

**MATH ESSENTIALS A,B,C (SP5131, SP5132, SP5133)**

**Grade: 9-12**

**3 credits**

This level 3 pre pre-algebra course will continue to build on and reinforce the skills that were learned in level 2. Students will use basic math operations of addition, subtraction, multiplication and division while working with positive and negative integers, fractions, decimals and percentages. Students will be expected to use mental math as well as a calculator to work with and find solutions to real world problems. Students will simplify math expressions, solve equations with variables, and will use various math formulas to solve problems while developing their algebraic skills. We will use a variety of resources throughout the year. A basic scientific calculator will be necessary in order to be successful in this class. This class is intended to either be your last class before taking Math and Life Skills or will prepare you to take Algebra Essentials. (Students do NOT need to have taken this course before taking Algebra Essentials, but a teacher recommendation is necessary).

**MATH & LIFE SKILLS (SP5100)**

**Grade: 11-12**

**1 credit**

Prerequisite: Level 3 or above

This course is designed to provide explicit instruction that demonstrates the need to increase their knowledge and skills in money management, budgeting, purchasing, as well as life skills to help prepare students for life after high school. Life skills will include: laundry, cooking, self-advocacy, computer skills, childcare, making healthy choices, etc.

**ALGEBRA ESSENTIALS A,B,C (SP5201, SP5202, SP5203)**

**Grade: 9-12**

**3 credits**

This course teaches essential pre-algebra content and provides students with an introduction to year-long Algebra 1.5 content as well. Students will work with topics such as real numbers, equations, inequalities, graphing, functions and exponents. The purpose of the course is to build a solid foundation for a year-long Algebra 1.5 course and to prepare students to continue and be successful in the year-long Algebra 1.5 mainstream setting.

**Special Education classes are only available to students with an IEP and approval of the student's case manager.**

**PE ESSENTIALS (SP5431, SP5432, SP5433)  
1-3 credits**

**Grade: 9-12**

Developmental Adapted Physical Education is specially designed physical education instruction and services for students with disabilities who have a substantial delay or disorder in physical development. Development Adapted Physical Education includes the development of physical fitness, motor fitness, fundamental motor skills and patterns, skills in aquatics, dance and individual dual and team sports. Students who participate in PE Essentials must qualify for this Special Education service and score below a state mandated standard.

**INTERPERSONAL STRATEGIES (SP5011, SP5012, SP5013)  
1-3 credits**

**Grade: 9-12**

Prerequisites: Prior approval from EBD Department required

This course addresses topics such as lifetime wellness; personal growth; self-understanding; physical and mental health; decision making; understanding others; conflict prevention, resolution, and management; building and maintaining relationships; and individual needs and characteristics and their impacts on relationships. This class will focus on targeting and teaching appropriate behavior and coping strategies as well as offering structured study time to teach resilience, determination, and persistence skills. Students will develop techniques and strategies to better problem solve, develop positive creative thinking skills and increase self-discipline.

**EMPLOYABILITIES (SP5000)  
1 credit**

**Grade: 10-12**

Prerequisites: Prior approval from Work Experience Coordinator and Employabilities teacher required.  
Ability to have competitive employment during HS.

This course is designed to provide explicit instruction for sophomores who will turn 16 within the year, or juniors and seniors who have not obtained employment independently and/or are participating in on-the-job training. Prerequisite for the course is that it is an identified area of need in a student's Individualized Education Plan in the Transition Matrix or transition activities section. The course will provide introductory information on interest and career inventory, how to look for and obtain a job as an individual with a disability, and instruction on how to maintain a job (hard and soft skills). This course will provide introductory information on interest and career inventory, how to look for and obtain a job as an individual with a disability, instruction on how to find, maintain and end employment appropriately.

**WORK EXPERIENCE (SP5501, SP5502, SP5503)  
1-3 credits**

**Grade: 11-12**

Prerequisites: Prior Approval from Work Experience Coordinator and Case Manager

Students will participate in a work experience within the community or at school. Students will be encouraged to become responsible and competent members of the workforce. They will record hours worked and reflect upon experiences at work. Students will also learn appropriate coping and stress relieving methods on the job. Students will understand the ways in which they can promote good working relationships with their employers and coworkers. **In order to leave school for work experience, students must be passing all courses required for graduation.**

**WORK EXPERIENCE (SP5511, SP5512, SP5513)  
1-6 credits**

**Grade: 11-12**

Prerequisites: Prior Approval from Work Experience Coordinator and Case Manager

Students will acquire and maintain a part-time position within the community and meet with work experience coordinator regularly. Students will be encouraged to become responsible and competent members of the workforce. They will record hours worked, turn pay stubs in, and reflect upon experiences at work. Students will also learn appropriate coping and stress relieving methods on the job. Students will understand the ways in which they can promote good working relationships with their employers and coworkers. **In order to leave school for work experience, students must be passing all courses required for graduation.**

**Special Education classes are only available to students with an IEP and approval of the student's case manager.**

**LIFE SKILLS (SP8001, SP8002, SP8003)**

**Grade: 9-12**

**1-3 credits**

Prerequisite: Prior approval from DCD/ASD teacher required

This course is designed to teach functional living skills to help students become successful in all aspects of everyday life.

**DAILY LIVING SKILLS (SP8111, SP8112, SP8113)**

**Grade: 9-12**

**1-3 credits**

Prerequisite: Prior approval from DCD/ASD teacher required

This course is designed to teach hands-on independent living skills related to transition, community participation, and recreation and leisure.

**FUNCTIONAL ACADEMICS (SP8101, SP8102, SP8103)**

**Grade: 9-12**

**1-3 credits**

Prerequisite: Prior approval from DCD/ASD teacher required

This course is designed to meet student individual needs related to function in academics and job skills.

**SOCIAL THINKING A,B,C (SP5411, SP5412, SP5413)**

**Grade: 9-12**

**1-3 credits**

Prerequisite: Prior approval from ASD teacher required

Social Thinking will assist students to better perceive the social world around them. Students will learn how to relate to people in school, the community, home, and in the workplace. They will learn to identify and communicate their specific strengths and needs. Study time is allotted during the week depending on student needs. Additional topics will cover the needs of ninth grade students for assisting with orientation to the high school. This course is taught by a special education teacher, with the services of the speech pathologist, and school social worker in a small group setting. The goals are to assist students in understanding their unique learning needs and advocating for themselves in a variety of settings.

**SOCIAL THINKING A,B,C (SP5421, SP5422, SP5423)**

**Grade: 9-12**

**1-3 credits**

Prerequisite: Prior approval from ASD teacher required

This course will assist students to better perceive the social world around them. Students will learn how to relate to people in school, the community, at home, with more of an emphasis on the workplace. They will identify and communicate their specific strengths and needs to the appropriate people of their support team. This course is taught by a special education teacher, with the services of the speech pathologist, and school social worker in a small group setting. Our goal for this course is to assist students in understanding the importance of effective social skills. (Students do NOT need Social Thinking I before taking this course, but a teacher recommendation is necessary.)

**SPORTS LITERATURE (EN5040)**

**Grade: 12**

**1 credit**

Prerequisite: Current IEP and Team Recommendation

Students in Sports Literature will examine themes between sports and society through literature by contemporary authors, columnists, and other media. Reading will consist of both fictional and nonfictional sports-based texts. In addition to reading, students will refine their speaking skills through small and large group discussions and formal/informal speeches/presentations. Students will also enhance their writing through an informative essay. Grades will be based on quizzes, tests, daily work, speeches/presentations, and an essay.

**THE FOLLOWING ARE SPECIAL EDUCATION COURSES OFFERED AT  
WRIGHT TECHNICAL CENTER**

**AUTOMOTIVE CAREER - A,B,C (WT5111, WT5112, WT5113)**

**Grade: 11-12**

**3 credits**

\*For students on an Individual Education Plan (IEP)

The goal of this program is to provide you with the skills needed to gain competitive long-term employment in the automotive industry or related fields. In this program you will learn a wide variety of essential entry-level, industry relevant, automotive technician skills. You will participate in career exploration and investigation and research activities in order to fully understand all aspects of this multibillion-dollar industry. You will develop a portfolio of program related activities; develop confidence in your ability to be successful in the world-of-work and to live independently. This program requires manual labor.

**Course Goals**

Enter the exciting world of auto maintenance and detailing.

- Master the Computerized parts program
- Develop your mechanical aptitude
- Develop your manual dexterity
- Enhance your organizational skills
- Sharpen your problem solving skills
- Learn to attune to detail
- Refine your soft skills

**Program Highlights**

Upon completion of this program students will be able to:

- Demonstrate knowledge of the profession and safety practices
- Demonstrate knowledge of cleaning and care products and supplies
- Demonstrate use of hand tools and standard shop equipment
- Perform full vehicle fluid & filter service per manufacturer recommendations
- Complete cosmetic repairs such as exterior and interior detailing
- Demonstrate effective customer communications
- Process customer service ticket
- Develop technical literacy skills using paper hard copy and online reference

**GREENHOUSE CAREERS – A,B,C (WT5011, WT5012, WT5013)**

**Grade:11-12**

**3 credits**

\*For students on an Individual Education Program (IEP)

This course prepares students with broad entry-level skills in related greenhouse occupations. Students will participate in career exploration and investigation activities and have a better understanding of all aspects of the industry through career identification and research. Students will explore greenhouse plant production and related landscape maintenance. By mastering the skills learned in this program students develop confidence in their ability to successfully enter the world of work. These skills are not only job specific, but also enhance independent living skills such as mathematics, reading, writing, communications, study skills, and money management. Students will develop and learn the importance of teamwork while being a member in the operation of a simulated garden center business. Students will be planting in dirt, please consider sensory issues.

**Course Goals**

- Develop ornamental horticulture and floriculture competencies
- Develop an awareness and appreciation for the beauty and impact of ornamental plants
- Identify requirements for ornamental and crop plants.
- Identify the need for a plant product, create a plan, create the product and market the product
- Understand landscape maintenance practices
- Demonstrate teamwork to achieve a common workplace goals
- Demonstrate leadership and workplace readiness skills
- Develop general workplace communication skills
- Explore greenhouse careers

**PRACTICAL ASSESSMENT EXPLORATION SYSTEM – (PAES) (WT8001, WT8002, WT8003)**

**Grade: 11-12**

**3 credits**

\*For students on an Individual Education Plan (IEP)

In the PAES program, students will learn valuable skills through hands-on job exploration activities. These skills relate to almost every type of career, and each career area has a comprehensive array of tasks for the students to learn and perform. Skills are taught in a systematic way that helps students become more independent. PAES operates in a simulated work environment, providing a perfect place to access and eliminate inappropriate behaviors that cause barriers in later life. Students are required to follow specific work procedures and work rules. Students are encouraged to become as independent as possible and are rewarded for their progress. Students completing PAES have a thorough knowledge of many job skills and have a better understanding of the real working world. PAES is a special education transitional program designed to assist with a student's transitional plan.

**Course Goals**

The goals of the PAES program are to help students:

- Explore their future career interests and abilities
- Discover which tasks and job skills they excel at
- Learn entry level skills in multiple career/work areas
- Develop problem solving skills
- Learn to work more independently
- Ability to follow defined work procedures
- Practice appropriate work behaviors
- Build positive self-esteem

# **TECHNOLOGY EDUCATION & ENGINEERING**

## **PRINCIPLES OF TECHNOLOGY (TE6030)**

**Grade: 9**

**1 credit**

Principles of Technology is recommended for ninth grade students who are interested in hands-on, project-based learning. In this introductory course, students will learn basic skills that will help them in ALL future Technology Education & Engineering classes. A variety of units will be covered including, measuring, drawing, woodworking, metalworking, CADD, 3-D Modeling, and laser applications. **A lab fee of \$20 is required for this course.**

## **INTRODUCTION TO ENGINEERING DESIGN - A&B (IED) (TE6011 & TE6012)**

**Grade: 9-10**

**PART OF PROJECT LEAD THE WAY**

**2 credits**

Have you ever had an idea to create a new product? Intro to Engineering and Design will challenge you to use creative thinking, problem solving, and hands-on learning to come up with new, innovative products, and to improve existing ones. You will learn how to design your ideas, create 3-D models, and build prototypes of your projects. **This course provides the opportunity to earn three college credits. A lab fee of \$10 is required for this course.**

## **PRINCIPLES OF ENGINEERING - A&B (POE) (TE6021 - TE6022)**

**Grade: 10-12**

**PART OF PROJECT LEAD THE WAY**

**2 credits**

This course explores the wide variety of fields in engineering and technology, and also looks at various technology systems and manufacturing processes. Through activities, projects, and problem-solving, students learn first-hand how engineers and technicians use math, science, and technology in the problem-solving process to benefit people. This class will help prepare students for a career in engineering. **This course provides the opportunity to earn three college credits. A lab fee of \$10 is required for this course.**

### **THE FOLLOWING TWO COURSES ARE OFFERED ON A ROTATING YEAR SCHEDULE.**

## **COMPUTER INTEGRATED MANUFACTURING - A&B (CIM) (TE6031 - TE6032)**

**Grade: 10-12**

**PART OF PROJECT LEAD THE WAY**

**2 credits**

Prerequisite: Teacher recommendation or recommended to take either IED, POE or CADD

Students will learn the concepts of robotics and automated manufacturing by creating three-dimensional designs with Inventor modeling software, and produce models of their designs. CIM gives students a real life look at manufacturing with the opportunity to use automation, control systems, sensing devices, CNC computer programming, and robotics to efficiently mass-produce a product using a 3D model. **This course provides the opportunity to earn three college credits.**

## **DIGITAL ELECTRONICS - A&B (DE) (TE6101 - TE6102)**

**Grade: 11-12**

**PART OF PROJECT LEAD THE WAY (This course will be offered in the 2022-2023 school year.)**

**2 credits**

Prerequisite: Strong background in math

If you like to play around with how electrical devices work, this is the course for you. In this course students will be working with basic applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices. **This course provides the opportunity to earn three college credits.**

**INTRODUCTION TO WOODS (TE6100)**

**Grade: 10-12**

**1 credit**

Intro to Woodworking is a course designed to expose students to general woodworking practices. Students will expand their knowledge and experience through multiple projects utilizing a wide variety of joining and assembly techniques. Students will be expected to learn and safely use hand tools, power tools, and woodworking machinery. The projects are designed to give students as much experience as possible by using many different machines and tools. **There is a \$40 course fee associated with this class to cover the cost of materials consumed.**

Upon completion of this course, the student will have woodworking skills that will be useful in any aspect of today's do-it-yourself world. Additionally, the student should have a broader understanding of assembly processes as well as more in-depth problem solving skills.

**This course is a prerequisite for all other woodshop courses: Furniture Making, Cabinet Making, and Advanced Woods.**

**FURNITURE MAKING (TE6120)**

**Grade: 10-12**

**1 credit**

Prerequisite: Introduction to Woodworking

In Furniture Making, students will construct a coffee/end table. Students will be instructed on machine safety, machine operation, material fabrication, and wood finishing. Throughout the course, students will be evaluated on classroom participation, work habits, and quality of the completed project. Students will need to purchase all construction materials. This course acts as a prerequisite for Advanced Woods. **A lab fee of \$65 is required.**

**CABINET MAKING (TE6130)**

**Grade: 10-12**

**1 credit**

Prerequisite: Introduction to Woodworking

Students in Cabinet Making will construct a nightstand with a door and a drawer. Students will be instructed on machine safety, machine operation, material fabrication, and wood finishing. Throughout the course students will be evaluated on classroom participation, work habits, and the ability to complete a complex project that is constructed out of veneers and solid wood. Students will need to purchase all construction materials. This course acts as a prerequisite for Advanced Woods. **The project fee is based on the size of the project, an average expense is \$70.**

**ADVANCED WOODS (TE6180)**

**Grade: 11-12**

**1 credit**

Prerequisite: Completion of Furniture Making or Cabinet Making with a grade of B or better

Students in Advanced Woods will design and build a wood project of their choice. In addition, students will be expected to complete a lathe project or a project on the CNC router. Students are expected to draw detailed plans for all projects and calculate the cost of each. Evaluation will be given on work habits, safety in shop, mastery of machine operations, and the quality of completed projects. Students will need to purchase all construction materials. (\*Tech Prep Credit – see page 5). **There is a project fee based on the size of the project.**

**CADD 1 (TE6001)**

**Grade: 10-12**

**1 credit**

In CADD I (Computer Aided Drafting Design) students begin to apply concepts to illustrate and describe the physical world and solve problems. Instruction will include the study of basic two-dimensional mechanical drafting concepts, dimensioning techniques, and the output of information to plotters or printers. The students will be expected to operate computers and use Auto CADD and Inventor software to produce drawings. Evaluation will be based upon written tests, completed drawings, and class participation.

**ARCHITECTURE 1 (TE6200)**

**Grade: 10-12**

**1 credit**

Students in Architecture I will learn about the different styles of architecture and the language of residential drafting. This course will include designing efficient floor plans for residential settings, learning the steps of home construction, and creating a scaled model of their home design. Course evaluation will be based upon the production of a residential house plan using Autodesk Revit.

**POWER & ENERGY SYSTEMS (TE6220)**

**Grade: 10-12**

**1 credit**

Students in Power and Energy Systems will cover a variety of topics that include alternative energy sources, electrical production and wiring, 4-cycle engine operation, and product engineering. A rigorous hands-on approach will be taken to show students the practical applications of the various energy sources.

**GENERAL METALS (TE6310)**

**Grade: 10-12**

**1 credit**

General Metals is designed for the student interested in studying and developing skills in the metals manufacturing industry. Students will learn welding, milling and lathe work, foundry processes, sheet-metal and other metal fabricating processes.

**MACHINE TOOL TECHNOLOGY (TE6320)**

**Grade: 10-12**

**1 credit**

Prerequisite: Completion of General Metals with a grade of C or better

Students will be involved in an in-depth study and skill development process concerning the use of machine tools. Precision work on the CNC machine tools, lathes, mills and grinder will be emphasized. Foundry mold-making and casting will also be an integral part of this class. A basic math background and problem-solving ability is required.

**WELDING AND FABRICATING (TE6330)**

**Grade: 10-12**

**1 credit**

Prerequisite: Completion of General Metals with a grade of C or better

Students will be involved in an in-depth study and skill development process concerning welding and fabricating metals as they learn out-of-position welding techniques, TIG and MIG welding processes. Advanced welding practices as well as use of the CNC Plasma system will enable students to complete a final major project. **The lab fee is based on the size of the project.**

**AVIATION 1 (TE6400)**

**Grade: 10-12**

**1 credit**

An overview of a private pilot's license ground school curriculum, including: aerodynamics, airport design, navigation and in-flight instrumentation panels are just a few of the many subjects that will be covered throughout Aviation I. In addition, the course will cover the United States' aircraft history and development over the past 110 years. Students will also have an opportunity to construct balsa wood model airplanes and apply their knowledge through wind-tunnel and airfoil performances. **There is a \$20.00 project fee for this course to cover the cost of materials consumed.**

**AVIATION 2: DRONES (TE6410)**

**Grade: 11-12**

**1 credit**

Prerequisite: Completion of Aviation I with a grade of B or better

Students in Aviation II will learn the components of unmanned aerial systems (UAS), also known as drones. Students will work in small groups to construct and fly their own UAS. A major part of the class will be learning the content necessary to pass the FAA Small UAS Rule (Part 107), otherwise known as a remote pilot certificate. All electronic components necessary to control the drone will remain property of STMA. **There is a \$10 project fee for this course to cover the cost of materials consumed.**

**INTRODUCTION TO PROGRAMING (TE6000)**

**Grades 10-12**

**1 credit**

What to learn how to code? Introduction to programming is designed to painlessly introduce students to the world of programming through the use of Arduino microcomputers. Students will learn the Python programming language and write their code line by line to interact with various LEDs, motors, servos, and more. Students are given challenges throughout the course that require the right programming to solve. Successful completion of this course will leave the student with a strong understanding of universal computer programming principles and the ability to take more advanced programming classes.

**VIDEO GAME DESIGN (TE6020)**

**Grades 10-12**

**1 credit**

Prerequisite: Introduction to Programming (80%+)

In Video Game Design, students program their own video games in the language of C#, using the industry standard game engine, Unity. Unity is a video game engine that is used by high level game studios to make many successful video games including Hearthstone, Cities: Skylines, Rust, Kerbal Space Program, and many more. Concepts such as player control, environmental physics, and object interaction are utilized by students to create their games. Students not only learn the technical aspects of video game design, but also the theory behind the development process. At the end of the course, students may elect to showcase their completed game on an online web page for anyone to play.

**BASIC HOME REPAIR (TE6300)**

**Grade: 11-12**

**1 credit**

Being able to complete basic household projects can save a homeowner/renter thousands of dollars. Teaching our students to be "handy" without having to call a handyman will be a lifelong skill that they will use time and time again throughout their lifetime. Basic Home Repair will touch on several basic skills that every male/female will need at some point in their life outside of their high school career. Basic home and automotive maintenance will be the foundation of this course. **This course is designed to be an introductory class**, and it will be assumed that most students have never taken a class in the TEE area.

## **Broadcast**

### **INTRODUCTION TO VIDEO PRODUCTION (TE6420)**

**Grades 10-12**

**1 credit**

In Intro to Video Production, students will discover the basics of video production including recording, editing, and management. Students will not only get experience with the technical operations of camera usage and editing, but also learn the basics of modern filmmaking theory by studying film and television examples. Students work in pairs on projects including action sequences, dialog scenes, movie scene recreations, and much more. Successful completion of this course will leave the student with the ability to use digital video and audio recording equipment and the Adobe video software suite effectively, and is required to enroll in all other video production courses.

### **ADVANCED VIDEO PRODUCTION (TE6580)**

**Grades 10-12**

**1 credit**

Prerequisite: Introduction to Video Production (80%+)

Advanced Video Production takes what students have learned in Intro to Video Production and mixes in many new techniques including visual effects, motion tracking, color grading, lighting, and scripting. In AVP, students are given more creative freedom to produce video projects that reflect their personal interests and ideas, while incorporating their new filmmaking abilities. These projects will be larger in scope and may take months to complete. Some possible examples may include making a short film, a documentary, a YouTube video series, or a TV series for the school news. Successful completion of this class will leave the student with a deep understanding of film theory and the entire film media production process.

### **TV PRODUCTION 1 – KBNG (TE6500)**

**Grades 10-12**

**1 credit**

Prerequisite: Introduction to Video Production (80%+)

Students enrolled in TV Production I are responsible for producing video content for a daily school news broadcast. These videos may include announcements, reports, promotional videos, public service announcements, sports highlights, fun segments, and interviews related to the STMA school district. Students will also learn fundamental theories behind broadcast journalism that will guide their video communication with thousands of students and staff within the school. Successful completion of this course will leave the student with an understanding of a real news production and ability to produce quality video content made for the masses.

### **TELEVISION PRODUCTION 2 – KBNG (TE6510)**

**Grades 10-12**

**1 Credit**

Prerequisite: Introduction to Video Production (80%+)

Students enrolled in TV Production II are responsible for producing a daily school news broadcast that features announcements, reports, promotional videos, public service announcements, sports highlights, fun segments, and interviews related to the STMA school district. Students will be trained on industry standard video broadcasting equipment that they will operate every day to communicate with thousands of students and staff at the school. From news anchors, to camera operators, audio technicians, all roles in the production are filled by students. Not only will TV Production students be broadcasting the news, but they will also create their own video content to be shown on the broadcast. Successful completion of this course will leave the student with an understanding of a real news production and ability to operate high level video broadcasting equipment.

### **WEB PAGE DESIGN (TE6010)**

**Grades 10-12**

**1 credit**

Prerequisite: Introduction to Programming OR Computer Applications (80%+)

Designing an engaging web page is not solely about programming or artistic design alone. Web design is the perfect course for students who want to explore art and technology together as one. Students enrolled in this class will be introduced to User Experience (UX) theory and implement their knowledge to create beautiful and compelling web pages. Web pages will be created using HTML 5, CSS, and javascript. Assignments have students adding new pages, layouts, buttons, images, and other features to their websites. Successful completion of this course will leave the student with an understanding of UX design fundamentals, as well as technical skills in, HTML 5, CSS, and Node.js.

# WORLD LANGUAGE

Taking a World Language course as a freshman should be considered only if a student has been successful in core classes in the past. Otherwise, waiting until a future year to register for a World Language course would be advised. World language students will experience a wide variety of music and foods from the culture studied. They will be provided opportunities when available to use the language in authentic, real world experiences.

## SPANISH

### SPANISH 1 - A&B (WL6101 - WL6102)

Grade: 9-12

2 credits

Students in this course will be communicating at the introductory level, learning vocabulary including numbers, the calendar, time, greetings, transportation, school, family, foods and meals, and likes/dislikes. Students will also learn to use verbs in the present tense, near future, and commands. Students will be evaluated through tests, quizzes, daily assignments, classroom activities, and projects to assess their writing, speaking, listening, and reading skills.

### ADVANCED SPANISH 1 - A&B (WL6181 - WL6182)

Grade: 9-11

2 credits

Prerequisite: Teacher recommendation, MCA & NWEA test scores & grades

Students in Advanced Spanish I move at a very accelerated pace compared to Spanish I. The material covered in Advanced Spanish I is the equivalent of Spanish I and the first half of Spanish II. Students will communicate at a higher level in Spanish about personal topics related to school, family, clothing, daily routines, transportation and food. Students will be evaluated on classroom activities, written and oral work, projects, tests and quizzes. This class is intended for students who are self-motivated and are willing to work outside of class. Students must earn a B or better to continue to Advanced Spanish II. This class is intended for Freshmen planning to take AP Spanish or Sophomores planning to take CIS Spanish their senior year.

### SPANISH 2 - A&B (WL6201 - WL6202)

Grade: 9-12

2 credits

Prerequisite: Completion of Spanish I with a recommended grade of C or better

Students in Spanish II will be able to communicate in Spanish on familiar and personal topics in a culturally appropriate manner in the present, past and progressive tenses. Students will learn to express opinions about a variety of topics. Students will be evaluated on classroom activities, tests, quizzes and a project.

### ADVANCED SPANISH 2 - A&B (WL6281 - WL6282)

Grade: 10-12

2 credits

Prerequisite: Completion of Advanced Spanish I with a grade of B or better and teacher recommendation

Students in Advanced Spanish II will move at a much more advanced pace. The material covered in Advanced Spanish II is the equivalent of the second half of Spanish II and all of Spanish III. Students will communicate at a higher level in Spanish about familiar and personal topics using various verb tenses. Students will refine and expand their vocabulary to learn to express opinions, ideas and experiences. Students will be evaluated on classroom activities, written and oral work, projects, tests and quizzes. This class is intended for students who are self-motivated and are willing to do work outside of class. Students must earn a B or better to continue to College Spanish and must be in the top 50% for seniors and 33% for juniors. A grade of B or better is recommended for Level IV Spanish.

### SPANISH 3 - A&B (WL6301 - WL6302)

Grade: 10-12

2 credits

Prerequisite: Completion of Spanish II with a recommended grade of B or better or teacher recommendation.

Students in Spanish III will communicate in Spanish by refining and expanding vocabulary on familiar topics through conversation, composition and short stories. Students will express ideas, opinions and experiences through writing and speaking. Students will be evaluated on classroom participation, written and oral work, tests and quizzes.

**SPANISH 4 - A&B (WL6401 - WL6402)**

**Grade: 11-12**

**2 credits**

Prerequisite: Completion of Spanish III or Advanced Spanish II with a recommended grade of B or better.

Students in Spanish IV work on mastery of advanced tenses and language structures; read and write poetry and children's stories; do a feature film study; experience creating and teaching the language to other students; and practice writing, reading, speaking and listening in all grammar tenses.

**CIS SPANISH - A&B (WL6491 - WL6492)**

**Grade: 11-12**

**2 credits**

**\*\*College in the school course (see page 4)**

Prerequisite: Completion of Spanish III or Advanced Spanish II with a grade of B or better and a Senior in the top 50% or a Junior in the top 33% of their grade are eligible for this class.

Students in College Spanish will work at a more rapid pace on the mastery of advanced tenses and language structures through themes such as travel, art, nutrition, Spanish culture and history, a film study and creation of a children's book. Students will practice writing, reading, listening and speaking at a college level. Students are eligible to receive four college credits through St. Cloud State University.

**ADVANCED PLACEMENT SPANISH - A&B (WL6591 - WL6592)**

**Grade: 12**

**2 credits**

Prerequisite: B or better in CIS/Level IV Spanish

The AP Spanish Language and Culture course will follow the outline created by the College Board, preparing students to take the AP Spanish Exam in May.

The AP Spanish Language and Culture course emphasizes thematic discussion. Students explore cultural topics through conversation by applying interpersonal, interpretive, and presentational skills in real-life situations. Students communicate using rich, advanced vocabulary and linguistic structures as they build proficiency in all modes of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. Students may be able to earn several credits beyond their CIS credits based on their AP Exam scores and college requirements.

## CHINESE

### **CHINESE 1 - A&B (WL7101 - WL7102)** **2 credits**

**Grade: 9-12**

Chinese I is an introductory course in Mandarin Chinese that emphasizes acquiring functional language use while embedding cultural perspectives. The course will provide students with a general understanding of the nature and history of the Chinese language and teach students to understand and use basic sentence patterns and vocabulary words. Students will also be taught to recognize and write Chinese characters. In addition to language skills the Chinese program has a strong emphasis on cultural education as well. This includes dance, song, calligraphy, arts, food, and modern Chinese life. Students will be evaluated on classroom participation, quizzes and tests, and some project work related to the course.

### **CHINESE 2 - A&B (WL7201 - WL7202)** **2 credits**

**Grade: 10-12**

Prerequisite: Completion of Chinese I with a C or better

Chinese II is a continuation of the Far East for Youth series. This class will focus on developing more fluent spoken Chinese, navigating a Chinese dictionary, creating and answering more detailed sentences and reading and writing more complex Chinese characters. Students will continue to learn Chinese culture as well. This includes: song, dance, Chinese brush painting, food and modern Chinese life. Students will be evaluated on classroom participation, quizzes and tests, their reading and writing ability as well as on their speaking and listening comprehension.

### **CHINESE 3 - A&B (WL7301 - WL7302)** **2 credits**

**Grade: 11-12**

Prerequisite: Completion of Chinese II with a C or better

Chinese III is designed for students who would like to develop a stronger understanding of the Chinese culture and continue to become more effective at communicating in the listening, speaking, written and spoken Chinese language. Students will be evaluated on classroom participation, written and oral work, projects, tests and quizzes.

### **CHINESE 4 - A&B (WL7401 - WL7402)** **2 credits**

**Grade: 12**

Prerequisite: Completion of Chinese I, II & III

Chinese IV is a course designed to prepare students for effective communication at a college level, as well as authentic use. This class emphasizes the Chinese culture, advanced reading and writing skills, and refinement of spoken Chinese language. These skills will prepare students for effective communications while traveling and conducting basic business in Mandarin speaking cultures. This will also prepare students who plan to major or minor in Chinese at the college level. Students will be evaluated on classroom participation, quizzes and tests, their reading and writing ability as well as on their speaking and listening comprehension.

## **STMA ONLINE**

### **ENGLISH (OE0000)**

#### **ENGLISH 9A**

**1 credit**

**Grade: 9**

English 9A, is a single trimester course designed to cultivate reading comprehension and writing skills. In this course, you will read and analyze literature in several different genres. In addition, you will explore many types of writing, such as creative, descriptive, expository, narrative, and persuasive. Dramatic conventions and the structural elements of poetry are also a focus of this course. You will sharpen your writing skills as you evaluate literary works and informational texts by examining formal techniques, forms and writing structures.

#### **ENGLISH 9B**

**1 credit**

**Grade: 9**

English 9B, is a single-trimester course designed to cultivate your presentation, research, and analytical writing skills. In this course, you will read and analyze literature from several different genres, as well as argumentative texts and informational texts. As you read, you will examine the author's purpose, audience, and point of view. In this course, you will build your research skills by evaluating sources for credibility and bias, develop a research plan, and write a research paper. An important aspect of the research process will be synthesizing information and correctly citing research sources. This course will prepare you to give a presentation based on your research. Throughout this course you will sharpen your reading and writing skills.

#### **ENGLISH 10A**

**1 credit**

**Grade: 10**

English 10A, you will explore characteristics of different genres of fiction, such as realistic fiction, historical fiction, and science fiction, and analyze historical context, theme, and genre in Franz Kafka's novella *The Metamorphosis*. The second unit covers many types of nonfiction writing, including memoirs, personal essays, public essays, speeches, and narrative nonfiction. In the third unit, you will analyze traits and genres of poetry. In addition, you will complete writing activities in which you will employ analytical and persuasive skills. In English 10A, you will also study a variety of techniques to improve your reading comprehension, writing skills, and grammar and mechanics.

#### **ENGLISH 10B**

**1 credit**

**Grade: 10**

English 10B, you will explore characteristics of different genres of fiction, such as realistic fiction, historical fiction, and science fiction, and analyze historical context, theme, and genre in Franz Kafka's novella *The Metamorphosis*. The second unit covers many types of nonfiction writing, including memoirs, personal essays, public essays, speeches, and narrative nonfiction. In the third unit, you will analyze traits and genres of poetry. In addition, you will complete writing activities in which you will employ analytical and persuasive skills. In English 10B, you will also study a variety of techniques to improve your reading comprehension, writing skills, and grammar and mechanics.

#### **ENGLISH 11A**

**1 credit**

**Grade: 11**

English 11A, you will study a variety of techniques to improve your reading comprehension and writing skills. The instruction covers many types of writing: creative, descriptive, expository, narrative, and persuasive. In this course, you will read and analyze different genres in literature with an emphasis on American literary movements over time. You will also complete writing activities to evaluate literary works with regards to literary techniques, form, and theme.

**ENGLISH 11B****Grade: 11****1 credit**

English 11B, you will study a variety of techniques to improve your reading comprehension and writing skills. The instruction covers several types of writing, including creative, descriptive, and narrative. In this course, you will read and analyze a variety of literary genres with an emphasis on modern American literature and its literary movements. You will also complete writing activities to evaluate various literary works with regards to literary techniques, form, and theme.

**ENGLISH 12A****Grade: 12****1 credit**

English 12, Semester A, you will explore the relation between British history and literature from the Anglo-Saxon period through the neoclassical era, including the works of Shakespeare. You will read and analyze a variety of literary works from this time period by using relevant cultural and political history presented in each lesson. In this course, you will also study a variety of techniques to improve your reading comprehension, writing skills, and grammar and mechanics. The instruction covers many types of writing: creative, descriptive, expository, narrative, and persuasive. In addition, you will complete writing activities using your analytical and persuasive skills.

**ENGLISH 12B****Grade: 12****1 credit**

English 12B, you will explore the relationship between British history and literature from the romantic period to the modern era. You will read and analyze a variety of literary works from this time in the context of relevant cultural and political history. In this course, you will also study a variety of techniques to improve your reading comprehension, writing skills, and grammar and mechanics. The instruction covers many types of writing: creative, descriptive, expository, narrative, and persuasive. In addition, you will complete writing activities using your analytical and persuasive skills.

**CREATIVE WRITING****Grade: 10-12****1 credit**

Creative Writing, you will learn about the scope of creative writing and its genres. You will identify the key elements of prose and poetry. You will look at writing for stage, film, and TV. You will learn about theatrical and film techniques, as well as technical effects that are typically used in electronic media. You will look at writing for younger audiences, for advertising, and journalism. You will learn how the publishing industry works.

## **STMA ONLINE**

### **MATHEMATICS (OM0000)**

#### **ALGEBRA 1.5A**

**1 credit**

**Grade: 9**

Algebra 1.5A, is a single-trimester course designed to build, develop, and periodically assess your subject-matter knowledge while strengthening your mathematical skills. Linear relationships are a main focus of this course. You will graph, create, and solve linear equations and apply function notation to describe linear relationships. You will also study linear transformations and represent linear data using scatter plots and mathematical models. You will write and solve systems of linear equations and inequalities. At the end of this course, you will represent, compare, and analyze datasets in a variety of contexts.

#### **ALGEBRA 1.5B**

**1 credit**

**Grade: 9**

Algebra 1.5B, is a single-trimester course designed to build, develop, and periodically assess your subject-matter knowledge while strengthening your mathematical skills. The major topics of this semester are quadratic and exponential relationships. You will learn to perform operations on polynomials and factor them. You will examine quadratic relationships in detail by writing and graphing quadratic equations. You will also model real-world situations with quadratic functions and solve quadratic equations using a variety of methods. You will investigate exponential relationships and apply exponential models to describe and make predictions about real-world situations. You will solve linear-quadratic and linear-exponential functions. At the end of the semester, you will compare different function types graphically and algebraically. By the end of this

#### **GEOMETRY A**

**1 credit**

**Grade: 9-10**

Geometry is a branch of mathematics that uses logic and formal thinking to establish mathematical relationships between points, lines, surfaces, and solids. In Geometry A, you will explore rigid and non-rigid transformations of figures in the coordinate plane and use them to establish congruence and similarity of triangles and other shapes. You will also prove theorems about lines, angles, triangles, and parallelograms, and build geometric constructions using both basic tools and modern technology. In conclusion, you will apply your knowledge of triangles as you investigate the mathematics of trigonometry.

#### **GEOMETRY B**

**1 credit**

**Grade: 9-10**

Geometry is a branch of mathematics that uses logic and formal thinking to establish mathematical relationships between points, lines, surfaces, and solids. In Geometry B, you will review the volume formulas for some common solid figures as you extend your knowledge of two-dimensional shapes to three-dimensional shapes. You will also transition from primarily Euclidean geometry to analytical geometry—a segment of geometry focused on numerical measurements and coordinate algebra. You will use analytical geometry and observations to investigate the properties of circles and constructions related to circles. Geometry B closes with a study of independent and conditional probability and how you can use probability models to represent situations arising in everyday life.

#### **ALGEBRA 2A**

**1 credit**

**Grade: 10-11**

Algebra 2A, is a single-trimester course designed to cultivate and periodically assess your subject-matter knowledge while strengthening your mathematical skills. This course includes lessons that focus on the interpretation of polynomial and rational expressions. You'll learn to create, graph, and solve equations and inequalities. You'll also identify the key features of different types of functions and analyze them with tables, graphs, and equations.

**ALGEBRA 2B****Grade: 10-11****1 credit**

Algebra 2B, is a single-trimester course designed to cultivate and periodically assess your subject-matter knowledge while strengthening your mathematical skills. This course includes lessons that focus on function transformations on the coordinate plane, the inverse of functions, and the properties of functions. You'll learn to create and graph trigonometric functions and identify their key features. Toward the end of this course, you will build your understanding of the key concepts of probability and statistics.

## **STMA ONLINE**

### **SOCIAL STUDIES (OS0000)**

#### **US HISTORY A**

**Grade: 10**

**1 credit**

US History A, you will learn about the process of historical inquiry, review the events and principles behind the founding of the United States, and then apply historical inquiry to analyze societal issues, trends, and events from the Civil War through the Great Depression. You'll explore timelines to gain an understanding of how events link to each other, and you'll analyze historical documents for a firsthand sense of how events unfolded. You'll also gather evidence from relevant documents and historical texts in order to develop credible explanations of events in US history. You'll then use that evidence to evaluate change and continuity over time by writing essays and creating presentations about broad periods of historical development.

#### **US HISTORY B**

**Grade: 10**

**1 credit**

US History B, you will apply historical inquiry to analyze societal issues, trends, and events of US history from World War II to the present, including the Cold War, Civil Rights and other social movements, the Vietnam War, modern presidencies, and responses to global terrorism. You'll explore timelines to gain an understanding of how events link to each other, and you'll analyze historical documents for a firsthand sense of how events unfolded. You'll also gather evidence from relevant documents and historical texts in order to develop credible explanations of events in US history. You'll then use that evidence to evaluate change and continuity over time.

#### **WORLD HISTORY A**

**Grade: 12**

**1 credit**

World History A, you'll explore major historical events around the world. In the first unit, you'll develop your historical thinking skills. In the second unit, you'll examine the origins and developments of European exploration. In the third unit, you'll learn about the causes and effects of the Renaissance and the Reformation. In the fourth unit, you'll explore revolutions that occurred from 1789 to 1848, including the Scientific Revolution, the American Revolution, and the French Revolution. In the fifth unit, you'll explore the causes and effects of the Industrial Revolution, the spread of nationalism in Europe, and the Russian Revolution.

#### **WORLD HISTORY B**

**Grade: 12**

**1 credit**

World History B, you'll explore major historical events around the world. In the first unit, you'll analyze imperialism in the late nineteenth and early twentieth centuries and examine the causes and consequences of World War I. In the second unit, you'll study World War II, analyzing the factors that started the war and the impact of the war. In the third unit, you'll explore the rise and fall of communism in the Soviet Union and China and learn about the Cold War between the United States and the Soviet Union. In the fourth unit, you'll analyze the effects of decolonization in Southeast Asia and Africa. You'll also study the modernization of China and the rise of nationalism in the Middle East. In the last unit, you'll explore economic globalization and evaluate the benefits and challenges of living in the modern world.

#### **ECONOMICS**

**Grade: 11**

**1 credit**

Economics is a social science that examines how goods and services are created, consumed, and exchanged. This course covers basic economic problems such as scarcity, choice, and effective use of resources. It also covers topics on a larger scale such as market structures and international trade. It particularly focuses on the US economy and analyzes the role of the government and the Federal Reserve System.

**CIVICS**  
**1 credit**

**Grade: 11**

A citizen is a person who is legally recognized by a state and entitled to the state's rights and privileges. Civics is the study of the rights and duties of such a person. One of the best ways to understand your rights and duties as a citizen is to study the government that defines and upholds them. In Civics, you will learn about politics and government, and you'll analyze democracy which is the system of government used in the United States. Finally, you will examine the legislative, executive, and judicial branches of the U.S. Government. A course in Civics teaches you how to actively participate in governance and how you can help improve the quality of governance at all levels.

**PSYCHOLOGY**  
**1 credit**

**Grade: 11-12**

In Psychology, you will trace the history of psychology and examine key psychological theories. You will discuss human development and explain how the nervous and endocrine systems affect human development and behavior. You will explain various theories related to language development and acquisition. You will discuss the influence of heredity, environment, society, and culture on human behavior.

**SOCIOLOGY**  
**1 credit**

**Grade: 11-12**

This one-trimester elective course is intended as a practical, hands-on guide to introduce you to the field of sociology. You will explore the evolution of sociology as a distinct social science, learn about sociological concepts and processes, and discuss how the individual relates to society. You will also learn about the influence of culture, social structure, socialization, and social change in today's society.

**GEOGRAPHY**  
**1 credit**

**Grade: 9**

Geography is the study of where things are in the world. It is important to know why people settled where they did: sometimes this is for weather-related reasons, and sometimes it's because of bountiful natural resources nearby. In this course, you will learn about these special features which drive economic development and form the locales where people settle.

Please refer to page 4 for more registration information on STMA Online.

## **STMA ONLINE**

### **SCIENCE (OC0000)**

#### **BIOLOGY A**

**1 credit**

**Grade: 10**

Biology A, is a single-trimester course designed to strengthen your knowledge of basic biology. The first unit introduces biology and biochemistry. It focuses on the roles of and differences between plant and animal cells. In the second unit, you'll learn about the functions of different organ systems. The third unit covers cell division and the role of DNA and chromosomes in passing traits from parents to offspring. You will also have the option to learn more about biology through augmented reality and the use of the Edmentum AR Biology app on your mobile device.

#### **BIOLOGY B**

**1 credit**

**Grade: 10**

Biology B, is a single-trimester course designed to strengthen your knowledge of biology concepts. The first unit focuses on the classification, characteristics and biological processes of living organisms. In the second unit, you'll study evolutionary mechanisms and the impact of environmental factors on species over time. The third unit focuses on the conservation of energy as it relates to living things and different ecosystems. In the last unit, you'll explore how different ecosystems are interdependent. You will also have the option to learn more about biology through augmented reality and the use of the Edmentum AR Biology app on your mobile device.

#### **CHEMISTRY A**

**1 credit**

**Grade: 11**

This course looks at matter's composition, properties, and transformations. In this semester, you'll explore the structure and properties of matter. You'll analyze and construct the periodic table of elements. You'll compare elements based on their atomic structures and relative positions in the periodic table. You will also discuss the chemical bonding taking place in ionic and covalent compounds and metals. Finally, you'll predict the outcome of chemical reactions based on the reactants involved.

#### **CHEMISTRY B**

**1 credit**

**Grade: 11**

The course looks at matter's composition, properties, and transformations. In this semester, you will calculate the theoretical quantities of substances involved in a chemical reaction through the study of stoichiometry. You'll analyze chemical reactions that involve aqueous solutions, acids and bases, and gases. You'll see how gases respond to changes in pressure, volume, temperature, and quantity through the ideal gas law. You'll also calculate changes in temperature caused by physical and chemical processes and analyze reactions in terms of bond energies. Finally, you will understand how atoms are changed by the unique processes of radioactive decay, nuclear fusion, and nuclear fission.

#### **PHYSICAL SCIENCE**

**1 credit**

**Grade: 9**

Physical science is the study of matter and energy. In Physical Science, you'll describe the atomic and molecular structure of substances using models. You will investigate how chemical reactions involve energy and lead to changes in properties of substances. You'll also model different kinds of forces and the effect they have on the motion of objects. You'll solve problems involving work and power and apply these principles to simple machines. Finally, you will see how simple machines make up more complex machines that are important in our lives.

## **STMA ONLINE**

### **PHYSICAL EDUCATION (OP0000) / HEALTH (OH0000)**

#### **PHYSICAL EDUCATION 1**

**Grade: 9**

**1 credit**

Your body is a machine that has certain needs—if you treat it well, it should be able to serve you well. But what can you do to promote a fit and healthy body? A course in physical education can show you. By definition, physical education is instruction in exercise and physical activity. It teaches you how to maintain your personal fitness, how to measure different aspects of physical fitness, and how to avoid injury while exercising. It's all about getting active and setting your body in motion. By measuring health and fitness with objective data, it's possible to improve your health in a methodical way. Exercise helps you feel good about yourself and helps you sidestep the health problems that often accompany poor levels of fitness.

#### **PHYSICAL EDUCATION 2**

**Grade: 10**

**1 credit**

Your body is a machine that has certain needs—if you treat it well, it should be able to serve you well. But what can you do to promote a fit and healthy body? A course in physical education can show you. By definition, physical education is instruction in exercise and physical activity. It teaches you how to maintain your personal fitness, how to measure different aspects of physical fitness, and how to avoid injury while exercising. It's all about getting active and setting your body in motion. By measuring health and fitness with objective data, it's possible to improve your health in a methodical way. Exercise helps you feel good about yourself and helps you sidestep the health problems that often accompany poor levels of fitness.

#### **HEALTH 1**

**Grade: 9**

**1 credit**

Everyone needs to take care of their body, but we aren't necessarily born with the knowledge of how to go about it. It's important to invest time and energy into understanding what it means to be healthy. There are many activities you can engage in which are dangerous for your long-term health, so you need to know how to identify and avoid these activities. It's also important to identify lifestyles which will lead to a longer, more enjoyable life. This course will guide you through lifestyle choices you will make which will ultimately impact your life in meaningful ways.

#### **HEALTH 2**

**Grade: 10**

**1 credit**

Everyone needs to take care of their body, but we aren't necessarily born with the knowledge of how to go about it. It's important to invest time and energy into understanding what it means to be healthy. There are many activities you can engage in which are dangerous for your long-term health, so you need to know how to identify and avoid these activities. It's also important to identify lifestyles which will lead to a longer, more enjoyable life. This course will guide you through lifestyle choices you will make which will ultimately impact your life in meaningful ways.

# **WRIGHT TECHNICAL CENTER**

## **CAREER & TECHNICAL EDUCATION PROGRAMS**

### **AUTOMOTIVE TECHNOLOGY - A,B,C (WT5401, WT5402, WT5403)**

The Automotive Technology program offers students an opportunity to train in a state of the art, industry equipped automotive shop. Time will be divided between classroom instruction and hands-on training in the shop using professional tools and equipment. All classroom and shop instruction is provided by industry certified ASE technicians.

Second year opportunities are available to continue your training. Students must be able to work independently, maintain a “B” or above grade and have the approval of the instructor to participate. All second-year students will take the ASE Student Certification test, which is the first step in building a career as a service professional in the automotive industry.

#### **Program Highlights**

You will be trained in the following four areas:

- Brakes
- Steering and suspension
- Basic electricity and electronics
- Engine performance

#### **Skills Needed for Success**

- Must be able to work independently
- Mechanical aptitude
- Good problem-solving skills
- Detail oriented
- Manual dexterity
- Strong technical reading, writing, math and computer skills
- Team player, responsible, and good communicator

#### **College Credit Opportunities & Professional Certifications**

In the Automotive Technology course, you can earn ASE certifications and college credits. Students will need to earn a “B” or better grade in their course work. College credits are available at the following schools: Anoka Technical College, Dunwoody College of Technology, Hennepin Technical College, Minnesota West Community & Technical College, Ridgewater College, Rochester Community & Technical College, South Central College, St. Cloud State University, St. Cloud Technical & Community College, and Universal Technical Institute.

### **CONSTRUCTION TECHNOLOGY - A,B,C (WT5121, WT5122, WT5123)**

Students who enroll in the Construction Technology course will become members of the construction crew, which builds a house from layout and framing, to final trim work. You may assist in the construction of various school and community projects based on current industry standards and practices. You will also develop skills using carpenter’s hand tools, and stationary and portable tools used in the construction industry. There is a required payment of \$25.00 for tools, safety glasses, and hard hats.

Second year opportunities are available to continue your training. Students must be able to work independently, maintain a “B” or above grade and have the approval of the instructor to participate.

#### **Program Highlights**

You’ll also learn:

- Construction terminology
- Tool identification, safety and use
- Blueprint reading, layout and framing
- Exterior sheathing, roofing, siding, window & door installation
- Interior finishing: insulating, drywall and taping, painting
- Concrete and masonry
- Wood manufacturing and cabinetry
- Commercial construction

#### **Skills Needed for Success**

- Must be able to work independently
- Manual dexterity
- Hand and eye coordination
- Physical stamina
- Strong math skills and problem-solving skills
- Dependability and strong work ethic

#### **College Credit Opportunities**

College credits and/or apprenticeship hours can be earned with a “B” or better average in the course at the following schools: Anoka Technical College, Hennepin Technical College, Ridgewater College, Rochester Community & Technical College, South Central College, St. Cloud Community and Technical College, and St. Cloud State University.

## **COSMETOLOGY CAREERS - A,B,C (WT5031, WT5032, WT5033)**

The Cosmetology Careers course introduces students to the professional beauty industry. As a cosmetology student you will study the basic laws & rules of Minnesota and practice hands-on skills in a modern salon setting. You will also explore the various career opportunities available in the cosmetology field. There is a required non-refundable fee of \$45 for the purchase of your own mannequin head.

### **Program Highlights**

Students with an interest and passion for Cosmetology will focus on the areas of:

- Cosmetology theory
- MN State Cosmetology Laws & Rules
- Infection control and safety
- Nail care, manicures, nail art, and pedicures
- Scalp/Hair care, draping, shampooing, and conditioning treatments
- Hair design (styling)
- Hair shaping (hair cutting)
- Hair coloring, foiling, and color techniques
- Chemical texture (perming)
- Skin care and basic gentle cleansing facials

### **Skills Needed for Success**

- Must be able to work both independently and with others.
- Strong hand and eye coordination
- Positive professional attitude, friendly and likeable personality
- Effective communication skills
- Proficient math (algebra), 9th grade reading comprehension and strong writing skills
- Dependability and a strong work ethic
- Stamina for standing lengths of time
- Strong Manual dexterity
- Critical thinking skills
- Situational awareness

### **College Credit Opportunities**

College credits and/or hours can be transferred to the following cosmetology colleges: Aveda Institute, Atelier Academy of Beauty, Empire Schools, Minnesota School of Cosmetology, PCI Academy & Ridgewater College.

## **CREATING ENTREPRENEURIAL OPPORTUNITIES – CEO - A,B,C (WT5201, WT5202, WT5203)**

**\*\*See your counselor for application materials\*\***

*\*Offered Mornings Only - 7:30 – 8:50 am*

Would you like to own your own business someday? If so, then this is the class for you! You will attend class every day onsite at one of the dozens of businesses you will tour. You will learn from the owners and entrepreneurs who started these businesses. They will give you helpful advice when starting your own business. This year long class is a commitment, but if you are willing to challenge yourself, the experience will be amazing. Students must apply for acceptance into this program. Applications are available mid-year in your high school guidance office.

### **Program Highlights**

- Provide opportunities for students to be engaged, curious, and ready to learn about modern business practices
- Educate students on the opportunities in their communities
- Create new and innovative businesses
- Provide real-world, real-life experiences for students
- Connect students with business professionals
- Transform the way young people view the world and their future
- Inspire and encourage young people to return to their communities to live, work, raise families, and start businesses.
- Provide the opportunity for each student to start their own business
- Provide a mentor from the business community for each CEO student

### **Program Requirements**

- Students must be able to dress and act professionally
- Students must be extremely punctual
- Students must provide their own transportation

## **EARLY CHILDHOOD & ELEMENTARY CAREERS - A,B,C** **(WT5421, WT5422, WT5423)**

If you enjoy working with young children and are considering a career in teaching, social work, or child psychology, enroll in Early Childhood and Elementary Careers. You'll be able to put your classroom knowledge to work by having hands-on experiences with the preschool children in the Head Start classroom. Internships are also required in community-based daycare centers, Head Start programs, special education programs and elementary schools. Second year opportunities are available to continue your training. Students must be able to work independently, maintain a "B" or above grade and have the approval of the instructor to participate.

### **Program Highlights**

Throughout the course you will:

- Work hands-on with preschool children
- Study child development
- Learn classroom behavior management techniques
- Create hands-on learning projects and activities
- Experience caring for an electronic baby
- Intern in elementary schools, preschools, or day care center

### **Skills Needed for Success**

- Excellent communication and social skills
- Professional behavior
- Proficient math and reading skills (minimum of 6th grade reading level)
- Being alert and aware of what's going on around you
- Ability to handle on-the-job experiences in public settings

### **College Credit Opportunities**

College credits can also be earned if you maintain a "B" or above grade in the class. Credits are available from the following schools: Central Lakes College, Hennepin Technical College, Ridgewater College, St. Cloud Technical & Community College, and St. Paul College.

## **HEALTH SCIENCE - A,B,C** (WT5221, WT5222, WT5223)

The Health Science Technology course is an excellent foundation for all students interested in entering the medical profession. You will explore a wide variety of medical careers through research, guest speakers, and field trips. You will learn over 350 medical terms, study anatomy & physiology, and practice with medical equipment; such as automated external defibrillators (AEDs), stethoscopes, sphygmomanometers, plus many more. After completing the course, you will be eligible to take the state test to become a nursing assistant/Home Health Aide.

You have the option of becoming certified in BLS (Basic Life Support) First Aid. You will perform hands-on medical skills in simulated hospital rooms. After completing the medical skills, you will have an opportunity to participate in an on-the-job training at a local nursing home. You will be studying the MN Dept. of Health Nursing Assistant Curriculum which will prepare you for the state nursing assistant/home health aid exam.

### **Program Highlights**

This year long program teaches you;

- The variety of medical career options
- Medical terminology & abbreviations
- Anatomy & physiology
- Nursing Assistant training (NAR) & Home Health Aide Training (HHA)
- Leadership skills by participating in a professional student organization (HOSA)
- Job seeking skills
- CPR and First Aid for the Healthcare Provider

### **Skills Needed for Success**

- Strong math, technical reading and writing skills (minimum of 6th grade reading level)
- Identify and solve problems quickly
- Good hand-eye coordination
- Good communication skills
- Excellent people and teamwork skills
- Demonstrate patience, understanding and ability to be empathic
- Honest and trustworthy
- Conscientious, dependable and responsible
- Courteous and respectful

### **College Credit & Certification Opportunities**

Students can earn up to nine college credits and are available through the following schools:

Anoka-Ramsey Community College, Anoka Technical College, Central Lakes College, Hennepin Technical College, Normandale Community College, Rochester Community & Technical College, Southeast Technical College, St. Cloud Technical & Community College, and most other MN Colleges & Universities.

Students will have the opportunity to take the state examination to become a licensed certified nursing assistant registered (NAR) and Home Health Aid. (HHA)

## **LAW ENFORCEMENT & EMERGENCY MEDICAL RESPONDER - A,B,C** **(WT5301, WT5302, WT5303)**

In the Law Enforcement and First Responder course you will receive academic instruction with hands-on training needed to develop the knowledge and skills for a future career in the criminal justice field or as a professional rescuer. Guest speakers, discussions, demonstrations, lectures, role-playing, and practical exercises are just some of the activities that will allow you to better understand the various training procedures used by law enforcement and first responder professionals.

Second year opportunities are available to continue your training. Students must be able to work independently, maintain a "B" or above grade and have the approval of the instructor to participate.

### **Program Highlights**

Areas of study for Law Enforcement will include:

- Crime Scene Investigation
- Criminal justice: policing, courts & corrections
- Patrol procedures and tactics
- Squad car familiarization
- Ethics
- High and low risk traffic stop techniques
- Radio communication
- Fingerprinting and booking
- Criminal & traffic statutes
- Report writing
- Computerized firing range
- Defensive tactics
- Military obstacle & climbing wall
- DUI driving course
- Computerized criminal cases

### **Areas of study for First Responder will include:**

- First responder certification
- CPR & AED certification
- Advanced First Aid
- Blood borne pathogens training
- Skills Needed For Success
- Must be able to work independently
- Strong writing and reading skills
- Critical thinking skills
- Detail orientated
- Decisiveness
- Listening & public speaking skills
- Time management skills

### **College Credit Opportunities**

College credits can also be earned if you maintain a B or above grade at the following schools: Alexandria Technical & Community College, Hibbing Technical College, and Riverland Community College.

## **ON-THE-JOB TRAINING - A,B,C** (WT5021, WT5022, WT5023)

*\*Offered 4-5 period*

This unique program allows students the opportunity to make their job part of the classroom experience. Students attend class one afternoon per week at Wright Technical Center. The remaining afternoons, students leave school to work at their place of employment. Students are required to work at least 40 hours/month and bring their pay stubs to class. On-the-Job Training focuses on 21st century success skills students need to develop and practice to successfully transition from school into the workforce.

### **Program Highlights (may include)**

- Personal finance
- Safety-on-the-job
- Interviewing skills
- Career exploration
- Soft skill development
- Job shadowing
- Work site visits

### **Skills Needed for Success**

- Dependability and a strong work ethic
- Required weekly class attendance
- Ability to work as a team member
- Excellent communication skills
- Basic reading, writing and math skills
- Willingness to improve your people skills

### **Program Requirements**

Each student must agree to:

- Attend the OJT class at WTC one day a week.
- Verify 40 hours/month worked with copies of paystubs from employer
- Obtain a job by the start of course and stay employed throughout course
- Communicate with instructor prior to any changes in employment while enrolled in course

## **WELDING TECHNOLOGY - A,B,C (WT5321, WT5322, WT5323)**

In the Welding Technology course, you will be introduced to the advanced world of welding. This hands-on course will focus on the various welding processes used in today's industries. You will learn to weld mild carbon steel, stainless steels, alloy steels and non-ferrous metals. You will have the opportunity to demonstrate your welding skills by completing individual projects. Students will use state of the art equipment to work towards completing certification tests to qualify for opportunities in industry as well as college credit. It is recommended that each student purchase his/her own welding leathers, gloves, safety glasses and welding helmet—at an approximate cost of \$80.

Second year opportunities are available to continue your training. Students must be able to work independently, maintain a “B” or above grade and have the approval of the instructor to participate.

### **Program Highlights**

This hands-on course will teach you:

- Welding safety and equipment use
- SMAW, GMAW, FCAW-G, GTAW, OAW
- Oxyacetylene and flame cutting
- Blue-print reading
- CNC plasma cutting

### **Skills Needed for Success**

- Must be able to work independently
- Mechanical aptitude
- Manual dexterity
- Good vision
- Eye-hand coordination
- Detail oriented
- Ability to problem solve
- Strong Math, Science, and Reading Skills

### **College Credit Opportunities**

College credits can also be earned if you maintain a “B” or above grade in the course. Credits are available from the following schools: Anoka Technical College, Central Lakes College, St. Cloud State University, and St. Cloud Technical & Community College.

## **YOUTH APPRENTICESHIP - A,B,C (WT5001, WT5002, WT5003)**

*\*Offered 4-5 period*

Youth Apprenticeship integrates school and work-based learning to instruct students in program area employability and occupational skills. Students will follow program area training guidelines, endorsed by business and industry. Students earn academic credit to meet graduation requirements. Students are employed by a participating employer and are supervised by a skilled mentor. Students obtain Youth Apprenticeship Certification once they achieve the required competency levels for the program; pass all required courses; and work a minimum number of hours (450 hours/year). Availability of Youth Apprenticeship placements is dependent upon local employer needs. Contact your high school counselor for additional details.

### **Program Highlights**

- Industry-developed skill standards in the following program areas:
  - Agriculture, Food and Natural Resources
  - Architecture and Construction
  - Arts, A/V Technology & Communications
  - Finance
  - Health Science
  - Hospitality, Lodging, and Tourism
  - Human Services
  - Information Technology
  - Manufacturing
  - Science, Technology, Engineering, & Math
  - Transportation, Distribution & Logistics
- Exposure to multiple aspects of the industry
- Skilled mentors assigned to train the students
- Paid work experience
- Related classroom instruction concurrent with work-based learning
- Performance evaluation of demonstrated competencies
- State-issued skill certificate

### **Skills Needed for Success**

- Dependability and a strong work ethic
- Ability to work as a team member
- Excellent communication verbal skills
- Basic reading, writing and math skills
- Work-readiness skills
- Willingness to improve your people skills
- Completion of online safety training

### **Program Requirements**

Each student must agree to:

- Attend monthly meeting with YA Coordinator
- Verify hours worked with copies of paystubs from employer
- Complete workplace training and abide by all employer safety and work policies, and procedures
- Communicate with instructor prior to any changes in employment while enrolled in course

## GRADE 9 – CLASS OF 2025

Name: \_\_\_\_\_

Course #	Course Description
EN1071 or EN1081	English 9  Adv. English 9
EN1072 or EN1082	English 9  Adv. English 9
SS1070	Human Geography
SS1170	Early American History
TBD	Math
TBD	Math
BU1000	Financial & Computer Essentials
SC1071 or SC1081	Physical Science  Adv. Physical Science
SC1072 or SC1082	Physical Science  Adv. Physical Science
PH1010	Health I (option to take in 10 <sup>th</sup> grade)
PH1000	Physical Education 9
Course #	Alternate Choices

- **One course number in each box**
- Students must choose 15 classes **plus** 3 alternate choices (all boxes must be complete)

## GRADE 10 – CLASS OF 2024

Name: \_\_\_\_\_

Course #	Course Description
EN2071 or EN2081	English 10 Adv. English 10
EN2072 or EN2082	English 10 Adv. English 10
SS2071	US History
SS2072	US History
	Math
	Math
SC2071 or SC2081	Biology Adv. Biology
SC2072 or SC2082	Biology Adv. Biology
PH2010	Health II (Option to take in 11 <sup>th</sup> grade)
	Phy. Ed. (See options in registration book)
Course #	Alternate Choices

- **One course number in each box**
- Students must choose 15 classes **plus** 3 alternate choices (all boxes must be complete)
- You are responsible for rescheduling **failed required** courses

## GRADE 11 – CLASS OF 2023

Name: \_\_\_\_\_

Course #	Course Description
EN3070 or EN3181	English 11: Survival Adv. English 11
EN3170 or EN3182	English 11: American Lit Adv. English 11
SS3050	American Government
SS3170	Economics
	Math
	Math
	Chemistry or Physics (see options in registration book)
	Chemistry or Physics (see options in registration book)
Course #	Alternate Choices

- **One course number in each box**
- Students must choose 15 classes **plus** 3 alternate choices (all boxes must be complete)
- You are responsible for rescheduling **failed required** courses



# **SPORTS/EXTRACURRICULAR ACTIVITIES**

## **SEASONAL ACTIVITIES**

### **FALL:**

- Cheerleading
- Cross Country – Boys & Girls
- Football
- Musical
- Soccer – Boys & Girls
- Swimming & Diving – Girls
- Tennis – Girls
- Volleyball
- Bowling Club – Boy & Girls
- Debate/Student Congress
- Adaptive Soccer

### **WINTER:**

- Alpine Skiing – Girls
- Basketball – Boys & Girls
- Dance
- Gymnastics
- Hockey – Boys & Girls
- Math League
- Mock Trial
- One Act Play
- Speech
- Swimming – Boys
- Wrestling
- Adaptive Floor Hockey

### **SPRING:**

- Arts of Knights
- Baseball – Boys
- Golf – Boys & Girls
- Lacrosse – Boys & Girls
- Softball
- Tennis – Boys
- Track – Boys & Girls
- Trapshoot Club – Boys & Girls
- Three Act Play
- Adaptive Softball

### **SUMMER:**

- Marching Band

## **YEAR ROUND ACTIVITIES**

- Business Professionals of America
- Instrumental Music (includes Jazz Band)
- National Honor Society
- Student Council
- Super Mileage Vehicle
- Vocal Music (includes: Chambers, Sirens, and Singing Knights)