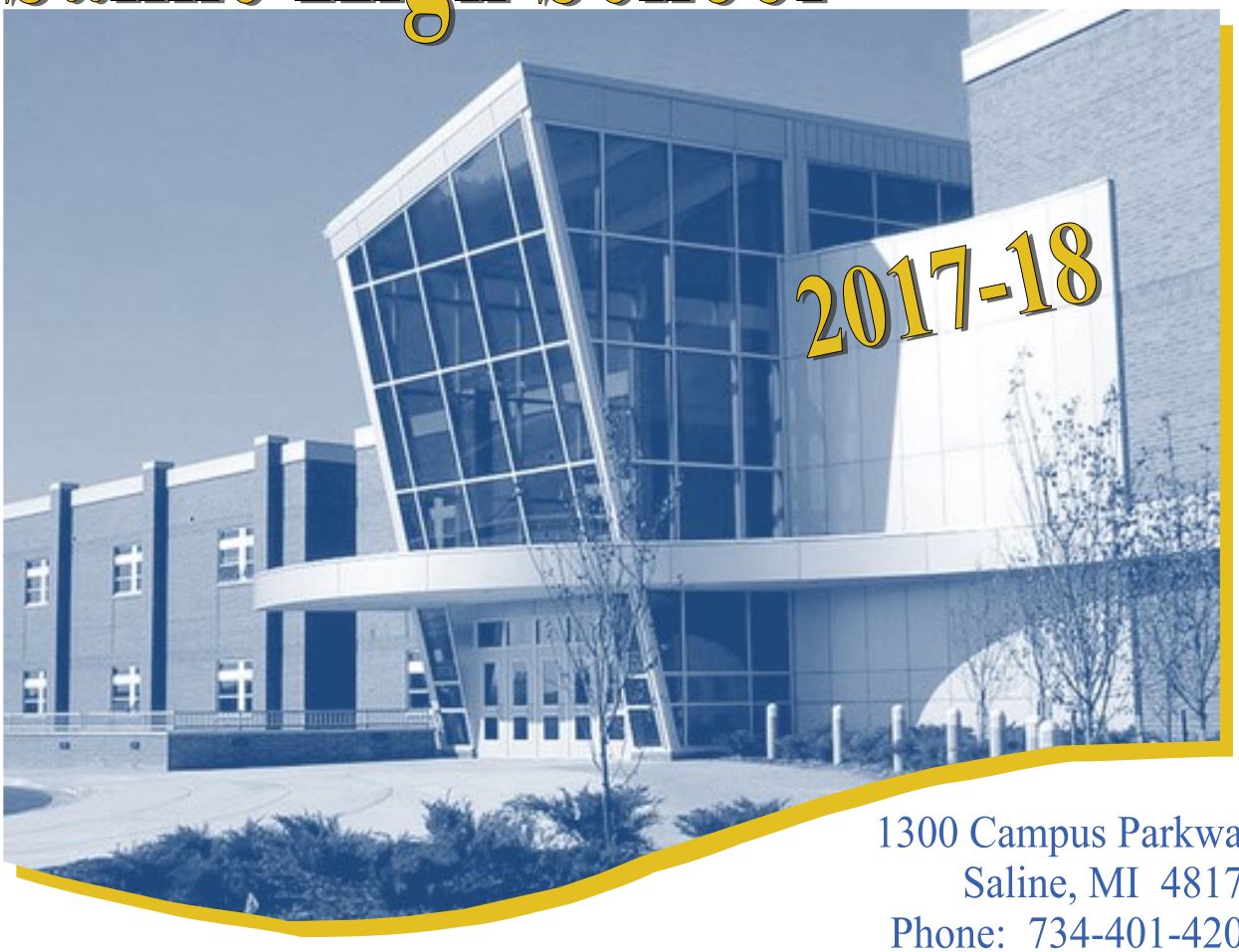
SALINE AREA SCHOOLS

# Saline High School

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# Course Guide

*The staff of Saline High School will support all students in the development of their talents consistent with their interests and aspirations. We will provide a comprehensive educational program that will instill knowledge and skills necessary in preparing our students to become productive citizens in a constantly changing global community.*

*2017-18 High School Course Guide*

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Superintendent of Schools

**Steve Laatsch**
Assistant Superintendent for Instructional Services

**Curt Ellis**
Assistant Superintendent of Human Resources

**Janice Warner**
Assistant Superintendent of Finance

## HS Administration

**David Raft**
Principal

**Theresa Stager**
Assistant Principal

**Joe Palka**
Assistant Principal
Assistant Athletic Director

**Kirk Evenson**
Assistant Principal
Athletic Director

**Jody Gielinski**
Principal
Southwest Washtenaw Consortium

## Counselors

Heather McLaughlin (A-Fa)
Michelle Monahan (Fe-K)
Bryan Bruckman (L-Rob)
Kathy Mussio (Roc-Z)

Dear Students:

At Saline High School we are committed to your high school success and transition to a meaningful post-secondary choice. With a wide variety of learning experiences available at SHS we provide you with rich and engaging coursework upon which to make these future decisions. As you *chart your course* you will find this catalog to give you the information you need to evaluate the variety of offerings we provide.

The 2017-18 High School Course Catalog provides you with information about available courses and support services, and serves as a resource to you throughout the school year and your high school career. A quick reference guide that lists courses by department and indicates the page numbers in the catalog for details is included in the front of the catalog. If you prefer, the catalog can also be accessed on the school website in the counseling tab at www.salineschools.org.

Teachers, school counselors and administrators are available to help you make wise choices. Take full advantage of the help and support they offer. Your guidance counselor will work with you to make sure that your course requests meet the graduation requirements and NCAA requirements if necessary. You will see a key in the catalog that shows you which classes count for these particular requirements.

Careful planning is key to a successful school experience. It is important that you carefully read the booklet so you are aware of all of the course requirements and prerequisites. Involve your parents in your selections and seek advice from teachers and counselors. This will ensure a smooth scheduling process. We have confidence in you and in your future and look forward to helping you in any way we can.

David W. Raft
Principal
Saline High School

# GRIEVANCE PROCEDURES FOR
# TITLE VI OF THE CIVIL RIGHTS ACT OF 1964
# TITLE IX OF THE EDUCATION AMENDMENT ACT OF 1972
# TITLE II OF THE AMERICANS WITH DISABILITIES ACT OF 1990
# SECTION 504 OF THE REHABILITATION ACT OF 1973
# AGE DISCRIMINATION ACT OF 1975

## Section I

Any person believing that the Saline Area School District or any part of the school organization has inadequately applied the principles and/or regulations of (10) Title VI of the Civil Rights Act of 1964, (2) Title IX of the Education Amendment Act of 1972, (3) Title II of the Americans with Disabilities Act of 1990, (4) Section 504 of the Rehabilitation Act of 1973, and five (5) the Age Discrimination Act of 1975 may bring forward a complaint, which shall be referred to as a grievance, to the local Civil Rights Coordinator at the following address:

**Mr. Curt Ellis**
**Assistant Superintendent for Human Resources**
**7265 Saline Ann Arbor Rd.**
**Saline, MI 48176**
**734-401-4003**

## Section II

The person who believes a valid basis for grievance exists shall discuss the grievance informally and on a verbal basis with the Civil Rights Coordinator, who shall, in turn, investigate the complaint and reply with an answer within (5) business days. The complaint may initiate formal procedures according to the following steps.

Step 1

A written statement of the grievance signed by the complainant shall be submitted to the local Civil Rights Coordinator within five (5) business days of receipt of answers to the informal complaint. The Coordinator shall further investigate the matters of grievance, and reply in writing to the complainant within five (5) business days.

Step 2

A complainant wishing to appeal the decision of the local Civil Rights Coordinator may submit a signed statement of appeal to the Superintendent of Schools within five (5) business days after receipt of the Coordinator's response. The Superintendent shall meet with all parties involved, formulate a conclusion, and respond in writing to the complainant within ten (10) business days.

Step 3

If unsatisfied, the complainant may appeal through a signed, written statement to the Board of Education within five (5) business days of receiving the Superintendent's response in Step 2. In an attempt to resolve the grievance, the Board of Education shall meet with the concerned parties and their representatives within forty (40) days of the receipt of such an appeal. A copy of the Board's disposition of the appeal shall be sent to each concerned party within ten (10) days of this meeting.

Anyone at any time may contact the Office for Civil Rights for information and/or assistance at 1-800-421-3481. If the grievance has not been satisfactorily settled, further appeal may be made to the Office for Civil Rights.

Inquiries concerning the nondiscriminatory policies may be directed to the Director, Office for Civil Rights, U.S. Department of Education, Washington, D.C. 20202.

The local Coordinator, on request, will provide a copy of the district's grievance procedure and investigate all complaints in accordance with this procedure. A copy of each of the Acts and the regulations on which this notice is based may be found in the Civil Rights Coordinator's office.

**Nondiscrimination Policy**

It is the policy of the Saline Area Schools not to discriminate on the basis of race, color, national origin, gender, age, disability, height, weight, religion, or marital status in any of its programs, activities, or employment. Inquiries regarding this policy should be directed to:

Mr. Curt Ellis
Assistant Superintendent for Human Resources
7265 Saline-Ann Arbor Rd.
Saline, MI 48176
(734) 401-4003

## College and Career Planning

The counselors meet with students to assist them in their various stages of college planning and career exploration. The Counseling Office is equipped with a Chrome Book cart so students have up-to-date: educational, occupational, career, college, scholarship, and financial aid information at their fingertips. Students at all grade levels are encouraged to meet with their counselor to take advantage of this information.

## College Admissions Process

Although each university makes its own determination in the admissions decision, Michigan public universities have agreed that students who graduate from high school must meet the requirements listed below to be eligible for regular admission to four-year degree programs.

English Language Arts - 4 credits
Math - 4 credits
Science - 3 to 4 credits
History and Social Studies - 3 credits
Foreign Language – 2 to 3 credits (in same language)

PLUS the following are also recommended

Computer Literacy
Fine Arts and Performing Arts
Technology Education

Visit the Guidance Office website by accessing the Saline High School website and clicking on "Guidance." This will take you to a wealth of information on college & career planning.

## Testing for College-Bound Students

**Preliminary Scholarship Aptitude Test / National Merit Scholarship Qualifying Test (PSAT/NMSQT)**
This is a "practice" test for the SAT and a qualifying test for the National Merit Scholarship Program. It is taken in October of the junior year.

**American College Test (ACT) and/or Scholastic Aptitude Test (SAT)**
These are college entrance tests taken in the spring of the junior year or the fall of the senior year. Saline High School administers the SAT as required by the State of Michigan in April of the junior year. Juniors or seniors may elect to take the SAT or ACT based on their colleges of interest.

**ACT National Test and Registration Dates**

Check website at www.actstudent.org for test dates and registration deadlines.

**SAT National Test and Registration Dates**

Check website at www.collegeboard.com for test dates and registration deadlines.

## Timetable for college admissions

| Freshman | Sophomore | Junior | Senior |
|---|---|---|---|
| Set academic goals & develop good study habits.<br><br>Don't take on too much. Transitioning to the high school can be challenging enough. | Continue to focus your efforts towards your studies and extracurricular activities. | FALL – take PSAT/NMSQT for SAT practice and to qualify for the National Merit Scholarship | FALL – narrow choices of colleges to a few, and apply to these schools. Attend senior meeting with your counselor. Submit college applications by late October. Continue to take and succeed in challenging college preparatory course work. Meet with college representatives visiting SHS. |
| Explore your interests. Be active in the community. | Explore college campuses when an opportunity presents itself. Plan and schedule Junior/Senior year courses with your counselor. | SPRING – Investigate self, goals, interests and abilities. Learn about the colleges that are of interest to you. Take the SAT (administered at SHS) and/or ACT in the spring. Begin to explore financial aid opportunities. | WINTER – File financial aid forms (FAFSA). Explore other opportunities for aid (merit scholarships, local scholarships, etc.) |
| SPRING: Take PSAT 9 (a practice SAT) | SPRING: Take PSAT 10 (a practice SAT) | SUMMER – between Junior/Senior year visit college campuses and continue college investigations. Request materials from colleges to learn more about their offerings. College applications are open. Identify college application deadlines. | SPRING – Receive notice of financial aid awards. Make final choice of college. Meet all deadlines for deposits. Set up orientation session at chosen college. |

## Financial aid for post-secondary education

The counselors present a Financial Aid Information Night each year in September at Saline High School. Financial need equals cost of attendance minus expected family contribution.

**Types of Financial Aid** (usually a "package" of these elements)

- Gift (scholarships and grants; can be need or merit based)
- Loans (government or private sources; usually low interest; often do not need to repay while attending school)
- Self-help (work-study on campus)

**Sources of Aid**

- Institutional
- Private (ex. local scholarships)
- State
- Federal

## NCAA Freshman Eligibility Standards

Student athletes who are interested in participating in sports as freshmen in a Division I or II College must register and be certified by the National Collegiate Athletic Association Initial-Eligibility Clearinghouse. To be considered a "qualifier," students are required to meet eligibility standards that include being a high school graduate, successfully completing a core curriculum of 16 academic courses (10 of these must be completed by the end of the junior year), and have a specific core course grade point average and a combined score on the SAT verbal and math sections **or** a sum score on the ACT based on the qualifier index scale. Students should work carefully with their counselor to make sure that these standards are achieved. Registration and other information are available at www.ncaaclearinghouse.net.

## The Advanced Placement (AP) Program

The AP Program offers the opportunity to experience challenging college-level courses and exams while still in high school. The courses provide stimulating in-depth study while developing effective writing skills. These courses take more time, require more work, are a year-long commitment but will give greater opportunity for individual progress, accomplishment, and placement.

Saline High School offers the following AP classes:

| | | | | |
|---|---|---|---|---|
| Art-Drawing | Calculus BC | Economics (Micro & Macro) | Physics | US Government |
| Art-3-D Design | Chemistry | Environmental Science | Psychology | US History |
| Biology | Comparative Government | Language and Composition | Statistics | |
| Calculus AB | Computer Science | Literature and Composition | PLTW/AP Computer Science Principles | |

All AP exams (except Art) contain both multiple choice and free-response questions, which require essay writing, problem solving, and other skills. In Art, students submit portfolios of their work instead of taking an exam. The cost of the exam will be at least $95. Passing the exam with a score of 3, 4, or 5 will usually earn credit at colleges or universities. If a student earns the required score on an AP exam, he/she may receive the equivalent of three to eight semester hours, potentially worth $300-$1,000 in tuition costs, depending upon the institution. **AP exams are administered in early May.** For more information, students should consult with their counselors early in their high school careers.

## Graduation Requirements

Class of 2018-2021 = 27 Total Credits

| English | Health | Mathematics | PE | Science | Social Studies | Technology | Visual, Performing or Applied Arts | World Language |
|---|---|---|---|---|---|---|---|---|
| 4 Credits | ½ Credit | 4 Credits | 1 Credit | 3 Credits | 3 Credits | 1 Credit | 1 Credit | 2 Credits |
| English 9, English 10 **or** English 10: Zines, English 11 (British Literature, American Literature, Yearbook, **or** AP Language & Composition) and one additional English credit. | (shown under Family & Consumer Science Dept.) | Algebra I, Geometry (**or** Geometry Fundamentals), Adv. Algebra (**or** Alg. 2 Fundamentals), one math class in senior year, which may include select courses outside of the Math Dept. as approved by the State of Michigan and the SAS District. | Basic PE I and Basic PE II or Fitness for Freshman Athletes | Biology **or** Ag Biology; Chemistry **or** Physical Science **or** Physics and 1 additional science credit | World History, US History, Economics and Government **or** AP Government. | | | |

**Each graduating student must complete the Michigan Merit Examination testing battery (which includes the SAT, the ACT Work Keys Test, and all required Michigan Merit Components) with a reasonable best effort.

**ART**
628 Foundations in Art (1) +
629 Pottery I (2) +
636 Pottery II (2)+
630 Jewelry I (1) +
635 Jewelry II (1)+
631 Drawing & Painting I (2) +
632 Drawing & Painting II (2)+
633 Sculpture I (2) +
638 AP Studio Art: Drawing (3)+
640 AP Studio Art: 3-D Design (3)+
642 Art & Design (1) +
644 Mixed Media (1) +
645 Mural Painting (1)+
647 Portfolio Prep (2)+

**BUSINESS**
522 Business Management Technology I (2) *
523 Business Management Technology II (2) *
524 Accounting I (2) * @
535 Accounting II (2) * @
526 Web Design I (2) *+
527 Web Design II (1) *+
530 General Business (1) *
531 International Business (1) *
550 Business/Personal Finance (1) *
543 Marketing I (3)
544 Marketing II (3) * +
990 Careers in Education (3)

**ENGLISH**
017 English 9 (2) #
018 Honors English 9 (2) #
056 English 10 (2) #
057 Honors English 10 (2) #
059 English 10: Zines (2)
060 Eng 11: American Literature (2) #
065 Eng 11: British Literature (2) #
023 Composition-College Writing (1) #
026 Composition-Creative Writing (1) #
027 Composition-Research (1) #
083 Composition-Grammar (1)
072 Composition-Advanced Creative Writing (1) #
030 Public Speaking (1) #
042 AP English Literature & Composition (3) #
044 AP English Language & Composition (3) #
048 Literature-World Mythology I (1) #
082 Literature-World Mythology II (1) #
049 Debate (1) #
080 Advanced Debate (1) #
053 Literature-Film I (1)
081 Literature-Film II (1)
070 Tech Writing-Yearbook (3)
073 Literature-Contemporary (1) #
075 Literature-Young Adult (1) #
076 Composition-Poetry (1) #
084 Literature-Bible (1) #
085 Literature-Graphic Novel (1)
086 Literature-Words of Social Protest (1)
875 Senior Capstone Experience (3)

**FAMILY & CONSUMER SCI**
606 Health Education II (1)
626 Health Education (1)
834 Parenting (2)
835 L2B – Learning to B.R.E.A.T.H .E (1)
846 Family & Personal Living (1)
850 Practical Nutrition (1)
855 Fashion Design (1)
860 Consumer Economics (1)
865 Senior Strategies (1)

**MATHEMATICS**
211 Algebra 1 (3) #
219 Geometry Fundamentals (2)
223 Geometry (2) #
225 Algebra 2 Fundamentals (2)
231 Advanced Algebra 2 (2) #
232 Honors Adv Algebra 2 (2) #
237 Applied Trigonometry (1) #
239 Applied Statistics (1) #
240 Statistics (1) #
241 AP Statistics (2) #
242 Computer Science (1) #
243 AP Computer Science (2) #
244 Computer Science Fundamentals (1)
245 Precalculus (2) #
247 Intro to Calculus (1) #
246 Honors Precalculus (2) #
249 AP Calculus AB (3) #
250 AP Calculus BC (3) #

**PERFORMING ARTS DEPT**
726 9th Grade Orchestra (3) +
715 Symphony Orchestra (3) +
720 Chamber Orchestra (3) +
725 9th Grade Band (3) +
733 Wind Ensemble (3) +
734 Symphonic Band (3) +
750 Music Theory (1) +
752 Guitar I (1) +
753 Introduction to Guitar (1) +
754 Guitar II (1) +
727 9th Mixed Choir (3) +
758 A Cappella Basics (1) +
756 Concert Choir (3) +
741 Chamber Choir (3) +
742 Colla Voce (3) +
728 Music Theater & Operetta (3) +
760 Acting I: Beginning Acting (1) +
762 Acting II: Intermediate Acting (1) +
764 Stagecraft (1) +
765 Drama – Mask and Puppet (1) +

**PHYSICAL EDUCATION**
610 Aerobics (1)
612 Basic Physical Education I (1)
624 Basic Physical Education II (1)
607 Fitness for Athletes Fall (1)
608 Fitness for Athletes Winter (1)
609 Fitness for Athletes Spring (1)
611 Fitness for Freshmen Athletes-Winter (1)
613 Fitness for Freshmen Athletes – Spring (1)
614 Fitness for Life (1)
623 Fitness for Females (1)
616 Individual Sports (1)
621 Team Sports (1)

**SCIENCE**
310 Earth & Space Science (2) #
311 Biology (2) #
342 AP Biology (3) #
352 Agriscience Biology (3)
354 Microbiology (1) #
312 Honors Science 9 (3) #
313 Physical Science (2) #
326 Chemistry (2) #
344 AP Chemistry (3) #
331 Conceptual Physics (2)
332 Physics (2) #
341 AP Physics (3) #
358 Environmental Science (1) #
329 AP Environmental Science (3) #
350 Exercise Physiology (1) #
335 Human Physiology (2) #
346 Anatomy & Physiology: Movement & Control Systems (1) #
347 Anatomy & Physiology: Life Support Systems (1) #
348 Forensic Science (1) #
816 Botany-Plant Systems-Horticulture Science (3)
825 Zoology-Animal Systems-Pre Veterinary Science (3)
875 Senior Capstone Experience (3)

**SOCIAL STUDIES**
410 World History (2) #
422 U.S. History (2) #
417 AP U.S. History (3) #
440 Approaching Asia (1) #
441 History of American Society & Pop Culture (1)
442 AP Economics (3) #
443 World Affairs (1) #
444 Economics (1) #
445 US Government (1) #
452 AP US Government (3) #
453 AP Comparative Government (2) #
455 Criminal Law (1) #
456 Civil Law (1) #
458 Russian History (1) #
460 World Religions (1) #
461 Ancient Civilizations: Greece/Rome (1) #
462 Psychology I (1) #
463 Psychology II (1) #
464 Developmental Psychology (1) #
450 AP Psychology (3) #
467 Sociology (1) #
468 Sports Sociology (1)
875 Senior Capstone Experience (3)

**TECHNOLOGY EDUCATION**
913 PLTW Intro to Engineering Des (2) * +
914 PLTW Principles of Engineering (2) * +
915 PLTW Digital Electronics (2) * +
916 PLTW/AP Computer Science Principles (2) * +
917 PLTW Comp Integrated Mfg (CIM) (3)* +
918 PLTW Principles of Biomedical Science (PBS) (2) * +
919 PLTW Human Body Systems (HBS) (2) * +
958 Intro to Computer Aided Drafting (1) * +
960 Intro to Technology (1) * +
962 Problems in Technology (1) * +
964 Engineering in Technology (1) * +
968 Advanced CAD & 3D Modeling I (1) * +
970 Advanced CAD & 3D Modeling II (1) * +
972 Architectural CAD I (1) * +
973 Architectural CAD II (1) * +
975 Autotronics (1) * +
976 Engine Fundamentals (1) * +
978 Electronics I (1) * +
979 Electronics II (1) * +
982 Metals I (1) * +
983 Metals II (1) * +
984 Metals III (1) * +
985 Digital Photography II (1)*+
986 Graphic Communications (1) * +
987 Adv Graphic Communications (1) * +
988 Photography (1) * +
989 Digital Photography (1) * +
932 Video Production I (1) * +
933 Video Production II (1) * +

**OTHER TECHNOLOGY CLASSES Listed UNDER "CAREER & TECHNICAL ED"**

**WORLD LANGUAGE**
111 French I (2) #
122 French II (2) #
133 French III (2) #
144 French IV (2) #
152 French V (possibility of Dual Enrollment) (3) #
156 Conversational French (1)
113 Spanish I (2) #
124 Spanish II (2) #
125 Spanish II Culture (2)
126 Spanish II Honors (2) #
135 Spanish III (2) #
146 Spanish IV (2) #
153 AP Spanish (3) #
155 Conversational Spanish (1)
117 German I (2) #
127 German II (2) #
137 German III (2) #
147 German IV (2) #
157 Conversational German (1)

**CAREER & TECHNICAL ED**
506 Health Sciences Technology (4)
509 Hospitality/Culinary Arts (3)
543 Marketing I (3)
544 Marketing II (3) * +
816 Botany-Plant Systems-Horticulture Science (3)
825 Zoology-Animal Systems-Pre-Veterinary Science (3)
909 Cosmetology I (9)
910 Cosmetology II (9)
924 Visual Imaging Tech (3) * +
926 Advanced Photography (3)* +
928 Building Trades (6)
929 GraphX Academy (3) * +
917 PLTW Comp Integrated Mfg (CIM) (3) * +
936 Welding & Fabrication Tech (3)
937 Auto Technology I (4)
938 Computer Aided Design (3)
934 Video News Production-SHS Today - See Career & Tech Ed Course (3)* +
941 Video News Production-LIVE Production Section: (3) * +
945 Auto Technology II (3) ^
946 Computer Servicing & Associated Electronics (3) * +
990 Careers in Education (3)

**EXPERIENTIAL LEARNING**
511 Introduction to Foods (1)
856 Student Leadership (1)
875 Senior Capstone Experience (3)
992 Connecting with the Exceptional Individual (1)
994 Connecting with the Exceptional Individual II (3)
999 Academic Collegiate Transitions (1)

**LEGEND**

( ) *The number in the parenthesis notes the number of trimesters the course is held.*

+ *Will count towards the State of Michigan Fine Arts Graduation Requirements*

* *Will meet Saline High School Technology & On-line Requirement*

^ *Early Start*
# *NCAA Core Classes*
@ Counts as Math credit

### 628 Foundations in Art: 1 Trimester

*Prerequisite: None*

This is an introductory course that allows students to explore several areas of two-dimensional and three-dimensional art. Foundations in Art is a ½ credit course where sculpture, pottery, jewelry, drawing, and painting, are the units of study. Through art history and studio activities students are given strategies for problem solving in the visual arts. This course serves as a basis for those who wish to improve their ability to think and articulate in visual terms and is open to any student in grades 9 through 12. To meet the graduation requirement of a "fine arts credit", students will also have to take another art class.

### 629 Pottery I: 2 Trimesters

*Prerequisite: Foundations in Art*

Pottery is a concentrated study of the clay medium. Students will examine pottery as a functional and sculptural form of art using multiple clay bodies (Earthenware, Stoneware, Terra Cotta, and Raku). Emphasis will be placed on basic pottery construction methods such as drape mold, hard/soft slab, coil, extruder, and potter's wheel. Students will explore and identify various finishing techniques such as glaze, paint (tempera, watercolor, spray, and acrylic), oxides, Raku, horsehair and smoke fire.

### 630 Jewelry I: 1 Trimester

*Prerequisite: Foundations in Art*

This course teaches students about the design and creation of "wearable art" that incorporate the elements and principles of design. Students will learn essential jewelry techniques, including enameling, forging metal, soldering, and riveting. Students will use equipment such as a buffing machine, saws, drills, and soldering torches; therefore, safe operation and proper conduct is stressed. Due to the processes and equipment used, this class is only for the very self-disciplined student.

### 631 Drawing & Painting I: 2 Trimesters

*Prerequisite: Foundations in Art*

This course is designed as an introduction to the drawing and painting processes and media. Concentration is focused on drawing and painting techniques and tools. Emphasis is placed on subject consideration, direct observation, and composition. Students will explore dry and wet media through mark making, and the effective use of light and shade.

There will be individual and group discussions on the art processes and the relationship to art history. In the first trimester the student will explore pencil, colored pencil, charcoal and tempera. In the second trimester students will explore pastels, watercolor, graphite, and oil pastel.

### 632 Drawing & Painting II: 2 Trimesters

*Prerequisite: Drawing & Painting I*

This course is designed for students desiring in-depth study of complex problems in a variety of painting and drawing media. Emphasis is placed on the further development of skills and techniques learned in Drawing & Painting I. Students will explore a variety of content derived from direct observation, personal expression, figurative and landscape studies. The student will explore reverse use of light and shade techniques, surface manipulation, and ways of creating and organizing space. In the second trimester the student will continue to use wet and dry media and explore methods of direct observation, color theory, visual communication and expression through social commentary, various subjects and personal imagery.

### 633 Sculpture I: 2 Trimesters

*Prerequisite: Foundations in Art*

Sculpture is the art of using materials to transform an idea into a real object. The term sculpture is used to designate a three-dimensional form that is mostly non-functional. Students will explore three-dimensional art utilizing a multitude of mediums, such as wire, plaster, found object and stone while investigating techniques such as additive, subtractive, assemblage, and fabrication. Students will explore a variety of subjects and themes incorporating the elements and principles of design along with sculptural concepts such as freestanding, relief, sculpture in the round and kinetic.

### 635 Jewelry II: 1 Trimester

*Prerequisite: Jewelry I*

This course is a continuation of the concepts and skills established in Jewelry I. Students will learn and expand their knowledge of essential jewelry techniques, including etching, enameling, patina, soldering (various techniques), and bezel setting. Students will use equipment such as buffing machine, saws, drills, and soldering torches; therefore, safe operation and proper conduct is stressed. Emphasis will be placed on design and successful execution of processes.

### 636 Pottery II: 2 Trimesters

*Prerequisite: Pottery I*

This class is for students who have taken Pottery I and want to further explore a variety of clay bodies as well as diverse finishing techniques. Projects will focus on sources of inspiration for example, artist Paul Soldner or incorporating unexpected materials into the clay surface such as nails or found objects. Students will continue to use the potter's wheel to create forms as well as, apply finishes to forms that are traditional and nontraditional (glaze, candle wax, charcoal pencil, Raku or apply a colorant to a workable clay body). In addition, students will be expected to create high quality work that can be submitted for art exhibits.

### 638 AP Studio Art-Drawing: 3 Trimesters

*Prerequisite: Drawing and Painting 2 and permission of Instructor*

This is an advanced course for seniors aiming at college credit. All work will be directed towards the production of a finished portfolio of personal artwork based upon the standards set by the Advanced Placement College Board. Emphasis will be placed on the quality of art, a concentrated area of study, and the ability to work in a number of diverse drawing and painting methods and techniques. The AP Art student will work in consultation with the teacher on an individual basis and must be able to work independently in and out of the classroom.

### 640 AP Studio Art-3-D Design: 3 Trimesters

*Prerequisite: Pottery I or Sculpture I and Permission of Instructor*

This is a yearlong advanced course aimed at students producing a finished portfolio based on standards set by the Advanced Placement College Board. A three dimensional portfolio is intended to address a broad interpretation of sculptural issues in depth and space. These may include mass, volume, form, plane, light and texture. Emphasis will be placed on the quality of art, a concentrated area of study, and the ability to work with various materials, methods and techniques. The AP Art student will work in consultation with the teacher on an individual basis and must be able to work independently in and out of the classroom.

### 642 Art & Design: 1 Trimester

Prerequisite: Foundations in Art

Simply stop and look at the world around you! "Design" is something you encounter everywhere, everyday of your life. It is a means of organization of colors, shapes, lines, textures and forms. You see it in clothing, furniture, CD covers, video games, cars, buildings, books, websites, etc. Whether you are aware of it or not you design everyday without knowing it. Look at what you are wearing. In this course, you will explore a broad interpretation of the creative process. Projects could include the exploration of color theory, product design, calligraphy, collage, book creation, illustration, paper relief, mixed media forms, notans, paintings, acrylic lifts, etc.

### 644 Mixed Media: 1 Trimester

Prerequisite: Foundations in Art

Leave what you know about art behind and take your artwork to a new level. Discover the possibilities of combining a wide variety of mediums and materials free from their traditional context. Explore new combinations of two and three dimensional materials through heat, stitching, adhesives, finishing and experimentation. Sources of inspirations for projects will include sound, photographs, events, and personal experience to name a few.

### 645 Mural Painting: 1 Trimester

Prerequisite: Foundations in Art and Permission of Instructor

Students in this course will design and execute large murals in the school. It is important that students have some painting experience and like to paint. An understanding of color theory and painting techniques is also important. This course requires a commitment to working in a group from the planning stages to completion. Students must be able to collaborate, share ideas, accept ideas from others, have a high level of organizational skills and demonstrate responsibility, as they will be painting and working outside the classroom setting. Much like Drawing and Painting 1, the focus will be placed on creating the illusion of depth through both simple and linear perspective, creating a sense of form, and exploring the effects of light and shade in painting.

### 647 Portfolio Prep: 2 Trimesters

*Prerequisite: Drawing & Painting I and II or Pottery I and II. (Both trimesters A & B must be completed.)*

This course is designed for upper level art students who are considering AP art, who wants to build a portfolio for college, or who would like to pursue an advanced art class and have met the prerequisites for this course. The purpose of the Portfolio Prep course is to prepare students for college and advancement in the development of their visual voice. Units will explore both independent and teacher directed projects, sketchbook assignments and development of strong written and oral skills during critiques.

### 522 Business Management Technology I: 2 Trimesters

*Prerequisite: None*

Students will gain knowledge of business curriculum by completing the 12 State of Michigan mandated segments. As students complete the different segments they will be preparing themselves for college and/or entering the workforce by learning beginning and advanced computer applications (MS Office Suite including Word, Excel and PowerPoint), business communications, business methods and workplace scenarios to provide students a chance to further develop critical thinking, decision-making, problem-solving, social netiquette and teamwork skills while offering solutions to real-life applications. This course is project based and taught in a computer lab. Students will have the opportunity to earn Microsoft Industry Certification through Certiport IT Academy, attend a business-related field trip as well as receive articulation credit through Washtenaw Community College.

### 523 Business Management Technology II: 1 Trimester

*Prerequisite: Business Management Technology I*

Students will incorporate and expand knowledge learned from Business Management Technology I to complete the State of Michigan mandated curricular segments. Those curricular segments include: International Business, Data Management and Administration, Human Resource Administration, Operation and Quality Management and Financial Analysis and Economics. This course is project based and taught in a computer lab. Students will have the opportunity to earn Microsoft Industry Certification through Certiport IT Academy, attend a business-related field trip as well as receive articulation credit through Washtenaw Community College.

### 524 Accounting I: 2 Trimesters

*Prerequisite: Grades 10-12*

This course studies accounting procedures for a sole proprietorship and a corporate merchandising business throughout a fiscal period. Students will be making journal entries, posting, generating financial statements, computing adjusting entries and closing temporary accounts in order to prepare for a new fiscal period. Excel is used to prepare and analyze financial statements and prepare charts for financial reporting. Additionally, an accounting business simulation will assess students' prior knowledge and incorporate new concepts dealing with the operation of a sole proprietorship and a corporate merchandising business. The accounting cycle is covered both manually and automated in this course. This course can count as a 4th Math credit. *Articulation is available with Washtenaw Community College.*

### 526 Web Design I: 2 Trimesters

*Prerequisite: None*

This course introduces the basic concepts, issues, and techniques associated with web design, developing and in publishing web sites. Throughout the course, students will learn about HTML5, CSS3, and the Adobe collection (including Dreamweaver, Flash and Edge Animate) as it pertains to web design and publishing. Students will learn how to create sites both manually (writing code) and through the use of website development software (Adobe collection) and will demonstrate their mastery of these tools to create complex web sites. *Articulation is available with Washtenaw Community College.*

### 527 Web Design II: 1 Trimester

*Prerequisite: B or Better in Web Design I*

In this course, students will create advanced web sites. Students will create two web sites for a school related club, group, team, or teacher. They may choose to do a web site for a non-profit organization in the Saline community to fulfill one of these two sites. Students will also be assigned web site simulations that will require them to research specific ways in which to enhance web pages beyond what they learned in Web Design I. *Articulation is available with Washtenaw Community College.*

### 530 General Business: 1 Trimester

*Prerequisite: None Grades 9-12*

This course will introduce students to a wide variety of general business concepts and skills, preparing students for other business courses offered in the business department. Students will learn about ethics, the social responsibilities of businesses and government, economic decision-making, finance, management, leadership, human resources and small business ownership. Students will also learn skills needed to start and maintain employment.

### 531 International Business: 1 Trimester

*Prerequisite: None Grades 9-12*

Today's global economy requires workers to be skilled in international relations. This course will discuss the global economy and expand on business concepts to gain an understanding of global competition and the business world. Students will examine culture, history, language, values, and social behaviors, along with market conditions, laws, and demographics to determine the possibilities of doing business with other countries.

### 535 Accounting II: 2 Trimesters

*Prerequisite: Accounting I*

Students will expand their knowledge in accounting for a merchandising business both manually and automated. International accounting is addressed along with inventory, depreciation, notes payables and receivables, etc. Excel is used to prepare and analyze financial statements and prepare charts for financial reporting. Additionally, an accounting business simulation will access students' prior knowledge and incorporate new concepts dealing with the operation of a merchandising business. Accounting I and II are both recommended for students who plan on pursuing a business career after high school. This course can count as a 4th Math credit. *Articulation is available with Washtenaw Community College.*

### 550 Business and Personal Finance: 1 Trimester

*Prerequisite: None Grades 10-12*

This course will introduce students to the world of money management and finance. Students will learn how to manage their personal money, how to invest their money and how to plan for the different chapters in their lives from saving for college through planning for retirement. Examples of concepts that are covered include bank accounts, investing, budgeting, taxes, insurance, credit, and developing a financial portfolio.

### 543 Marketing I: 3 Trimesters

*Prerequisite: Grades 11-12*

This class is open to students interested in marketing, management or entrepreneurship. In this class, students will learn vital skills necessary to be successful in any career they choose. The class focuses on marketing concepts, salesmanship, interviewing, merchandising, management, retailing, promotion and much, much more. Students in this class will completely manage the school store, called "The Edge", which includes ordering, pricing, displaying and promoting products, as well as conducting market surveys. Each student will be given the opportunity to manage the store as a cashier or salesperson. The students will also be a part of the international association of marketing students, called DECA. Participants may compete in areas related to marketing, management and entrepreneurship at the district, state and/or international levels. Students may also participate in the development of social intelligence, leadership and community service. *Articulation is available with Washtenaw Community College.*

### 544 Marketing II: 3 Trimesters

*Prerequisite: Marketing I; Grade 12*

Students that enroll in Marketing II are seniors who have successfully completed the Marketing 1 program as a junior. Marketing II students will mainly focus on the running of the school store. All concepts of marketing learned in the previous year will be employed. Tasks that will be relearned and mastered are: knowing your target market, product selection for that market, pricing and financial reports involved in retailing, inventory management, promotions and advertising, selling techniques, customer service, and other skills needed to run a successful retail business. Other activities for Marketing II students will include computer simulations to expose students to experiences beyond the school store and classroom, related field trips, and guest speakers. There will also be an opportunity for students to fully participate in the DECA competitions offered through the Marketing program. *Articulation is available with Washtenaw Community College.*

### 990 Careers in Education: 3 Trimesters

*Prerequisite: Grade 11-12; Application acceptance*

Cadet Teaching is for students interested in exploring the fundamentals of education and human services as a career profession. It provides students an opportunity to get hands-on experience in the classroom before entering an education program in college. Students will focus on leadership, basics principles of education, child development, the planning and development of educational activities as well as school safety. Placements for cadet teaching field experience are made with a professional teacher in the Saline Area School district. Students will receive a grade based on supervising teacher evaluations, on-site observation, related assignments and a classroom-teaching portfolio. *Articulation is available with Central Michigan University and Mott Community College.*

## *Core Courses*

### 017 English 9: 2 Trimesters

*Prerequisite: None, Required for graduation*

Students in this course read, respond to, reflect on, and critically analyze literature and informational texts. Students write in a variety of genres for multiple purposes and audiences with an emphasis on organization. Texts include *Of Mice and Men*, *To Kill a Mockingbird*, *The Tragedy of Romeo and Juliet*, and a variety of short stories, poems, articles, and speeches.

### 018 Honors English 9: 2 Trimesters

*Prerequisite: Selection dependent on Placement Criteria.*

In addition to meeting the objectives in English 9, Honors English 9 combines reading, writing, grammar, and vocabulary at a brisker, more rigorous pace. It will examine and pursue various essay approaches and work to develop individual style. The major works include *Of Mice and Men, The Secret Life of Bees, The Tragedy of Romeo and Juliet, Animal Farm,* and *To Kill a Mockingbird;* other smaller pieces (short stories and poetry) will be included as well. This class is available only to those students who place in the top 10 percent on the placement test.

### 056 English 10: 2 Trimesters

*Prerequisite: English 9 or Honors English 9*

Students will explore the age old question of what it means to lead a meaningful life. This will be examined through reading a variety of texts and writing on topical themes. This course will emphasize and improve upon students' ability to analyze texts, as well as build students' written skills. Anchor texts include: *The Odyssey*, *Oedipus*, *Fahrenheit 451,* and *The Catcher in the Rye*.

### 057 Honors English 10: 2 Trimesters

*Prerequisite: English 9 or Honors English 9*

Honors English 10A and B focus on reading and writing from American authors. Students will benefit from developing the skills and habits necessary for success in understanding the reading from various time periods and rhetorical contexts in which it was written. Also, students will compose and communicate for a variety of purposes, audiences, and subjects that contribute to effective writing and speaking. Anchor texts include *The Adventures of Huckleberry Finn, Catcher in the Rye*, and *The Namesake*. Student will also participate in Poetry Out Loud. This class is available only to those students who completed Honors English 9 or met the criteria set forth in the placement test.

### 059 English 10 Zines: 2 Trimesters

*Prerequisite: English 9 or Honors English 9*

Creativity, collaboration, technology, and writing for authentic audiences are the foundational elements of this course for the aspiring 21st-Century learner. In teams, students will conceptualize, pitch, design, run and publish 3-4 issues of special-interest online magazines called *zines.* Individually students will also work as freelance writers, competing with others for publication in the *zines*. Writing will explore multiple genres and topics, and reading will focus on informational texts, including Daniel Pink's *A Whole New Mind.* Other focus areas include group dynamics, marketing, budgeting, speaking & listening, photography, and design. Students must be reliable, self-disciplined, and willing to work collaboratively with others.

### 065 English 11-British Literature: 2 Trimesters

*Prerequisite: English 10 or Honors English 10*

Literary skills, critical thinking skills, writing skills and public address skills are the focus of this class. The course will offer students the opportunity to read and react to the stories, poems, essays, and plays of celebrated British authors, and will look at British history and how it affected the development of the country's literature. From *Beowulf* to *Macbeth*, from *Frankenstein* to *Pride and Prejudice*, and on into the twentieth century, the class will help students find their own voices as readers, writers, and thinking members of society as they practice the skills of creative thinking, process writing, and interpersonal communication. Students will also have the opportunity to be part of the two-week summer trip to the United Kingdom!

### 060 English 11-American Literature: 2 Trimesters

*Prerequisite: English 10, Honors English 10, or English 10 Zines*

Students will explore American authors through informational texts, short stories, speeches, essays, personal narratives, poetry, and novels, and will look at the effects of American history on the development of its literature. Students will discuss and create responses to the literature such as essays, narratives, and speeches. The first half of the class follows the literature chronologically from the Early American and Revolutionary period through the Romantic, Regional and Naturalism periods and will focus on rhetorical analysis. The second half is organized chronologically from Modernism through Contemporary literature. Accompanying short stories, poetry, public speaking, and writing will support common themes.

## *AP Courses*

### 044 AP English Language and Composition: 3 Trimesters

*Prerequisite: English 10 or Honors English 10; Taken in Grade 11*

In this advanced college level writing course, students think deeply about language as a persuasive tool and about the dynamic relationship of writer, context, audience and argument in preparation for the AP Language and Composition exam. An AP course in English Language and Composition engages students in becoming skilled readers of nonfiction prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. This course includes a summer reading assignment.

### 042 AP English Literature and Composition: 3 Trimesters

*Prerequisites: English 11 or AP English Language and Composition; Taken in Grade 12*

This course examines classical and contemporary literature. Students will experience, interpret, and evaluate novels, short stories and poetry. Written work includes in-class essays, literary analysis, formal research essays, and a thematic portfolio. Finally, students will practice AP exam strategies. This course includes a summer reading assignment.

## *Composition Courses*

### 023 Composition - College Writing: 1 Trimester

*Prerequisite: English 10 or Honors English 10*

This course is designed for the college-bound student who wants to research, organize, and develop papers which meet university standards. Each student will stress the formal organization of the essay and its component paragraphs, along with the logical development and substantiation of the thesis. Study skills, grammar, note-taking methods, and introductory database research will be included. Students will write at least five short essays.

### 027 Composition - Research: 1 Trimester

*Prerequisite: College Writing I or AP English Language and Composition*

This course stresses advanced methods of print and electronic research, critical analysis of non-fiction texts, stylistic development, and, above all, the organization and development of longer, thesis-driven papers. Three to four pieces will be completed, with drafting and peer review stressed.

### 083 Composition - Grammar: 1 Trimester

*Prerequisite: None*

This course is designed for the novice writer. In addition to a review of grammar and punctuation skills, students will build on their vocabulary skills while studying and practicing careful use of language. As the class progresses, students will be able to recognize how a good foundation in grammar can be utilized in effective oral and written communication.

### 026 Composition - Creative Writing: 1 Trimester

*Prerequisite: English 10 or Honors English 10*

A writer's tool box contains words, imagination, a love of books, a sense of story, and ideas for how to make writing live and breathe. Students taking this class will utilize their "tool boxes" in developing the essential components of writing, such as dialogue, plot, characterization, and description. Daily writing exercises will be the focus of the class, with an emphasis on revision. Students will write in the genres of memoir, short fiction, and poetry.

### 072 Composition - Advanced Creative Writing: 1 Trimester

*Prerequisite: Creative Writing or Poetry*

Using skills studied in Creative Writing or Poetry, students can expect to further develop their writing abilities through experimentation with various genres. This writing course is intended for students who wish to expand their writing abilities and/or portfolio.

### 076 Composition - Poetry: 1 Trimester

*Prerequisite: None*

This course is recommended for students who wish to learn more about poetry and who wish to have the opportunity to express themselves in new and varied forms. While the focus is on the writing of poetry, students will learn about famous and influential poets, will read and analyze important poems and will experiment with a variety of poetic forms.

## *Literature Courses*

### 073 Literature - Contemporary: 1 Trimester

*Prerequisite: None*

Do you love to read but not have the time? Do you have a list of books you save until summer? Maybe you haven't read for pleasure since elementary school. Well, this is the class you've been waiting for! In this course, students choose and read contemporary literature individually at their own pace. Writing includes a weekly blog, personal reflection, and a book review.

### 075 Literature - Young Adult: 1 Trimester

*Prerequisite: None*

Young Adult Literature is a reading class for students who enjoy reading or who want to get more practice with reading. The literature read in Young Adult Literature focuses on fictional texts written for a teen audience. Students read primarily contemporary literature. In addition to reading nearly every day, students can expect to do a significant amount of response writing, as well as projects and book talks.

### 048 Literature - World Mythology I: 1 Trimester

*Prerequisite: English 10 or Honors English 10; Grades 11-12*

Myths are the stories, legends, and rituals of a culture used to explain social, natural and spiritual events, both past and present. We will explore the exciting and interesting myths, legends, and cultures of Mesopotamia and Europe in World Mythology 1. Students will read *Gilgamesh, The Iliad,* and *The Odyssey*, and make connections to our modern world through a variety of mediums, including the films *The Matrix* and *Troy*.

### 082 Literature - World Mythology II: 1 Trimester

*Prerequisite: Successful completion of World Mythology I; Grades 11-12*

Myths are the stories, legends and rituals of a culture used to explain social, natural and spiritual events, both past and present. We will explore the exciting and interesting myths, legends, and cultures of North/South America, Asia, and Africa. Students will read *The Power of Myth The Hobbit*, and *Beowulf*, and make connections to our modern world through a variety of mediums including the films, *District 9* and *Apocalypto*.

### 084 Literature - Bible: 1 Trimester

*Prerequisites: None Grades 9-12*

Whether it is a movie like *Bruce Almighty,* a book like *The Catcher in the* Rye, or subjects such as art, music, and culture, Biblical references are found everywhere in Western society. In this class, students will explore the contributions of Biblical themes, characters, and images. A variety of Biblical texts, as reflected in literature, art, music, and culture, will be discussed. Students will continue to develop reading and writing skills reflecting critical and creative thinking.

### 085 Literature - Graphic Novel: 1 Trimester

*Prerequisites: None Grades: 9-12*

Are pictures worth a thousand words? Did you know that you belong to the most visually acute generation that has ever existed? Did you know that graphic novels are the hottest new genre of literature? Did you know many graphic novels are on lists of greatest novels and/or are award winning works? Join others and explore the graphic novel. Learn about the history, types and elements of this genre. Analyze, discuss, and respond to excellent graphic novels. Have choices in the titles you read. Graphic novel will be Reader's and Writer's Workshop class.

### 053 Literature - Film I: 1 Trimester

*Prerequisite: Grade 12; Parent Permission*

This senior-only English elective is designed to introduce students to the exciting world of the cinema and explore the fundamental elements of storytelling. Films will serve as tools to study a number of writing, reading, and speaking strategies. Students will be asked to express themselves in writing through summary, analysis and script writing, among others. The films we study range from the early-twentieth century to the present era. Each course unit (based primarily on genre) aims to examine the complex social aspects of human nature and history, while developing students' English skills.

### 081 Literature - Film II: 1 Trimester

*Prerequisite: Film as Literature I, Grade 12; Parent Permission*

The course will delve deeper into the elements of storytelling using film as a medium with an emphasis on advanced filmmaking concepts, such as cinematography, editing and acting, among others. Film will also serve as a tool to study a number of writing, reading and speaking strategies. Students will be asked to express themselves in writing through summary, analysis, compare/contrast and script writing, among others. Course units are primarily based on film genres. The films we study range from the early-twentieth century to the present era. Each course unit (based primarily on genre) aims to examine the complex social aspects of human nature and history, while developing students' English skills.

### 086 Literature - Word of Social Protest: 1 Trimester

*Prerequisites: None Grades 10-12*

Dissent: Hold/express opinions different than those previously, commonly, or officially expressed. Exercise your right to explore the words of DISSENT!

- Read a variety of texts (song, poster, manifesto, speech, etc.)
- From a diverse group of writers (not mainstream)
- Respond (discuss, reflect, create projects, etc.)

*Words of dissent go to the heart of being a free thinker. Explore words that have changed the world.*

## *Speaking and Listening Courses*

### 030 Public Speaking: 1 Trimester

*Prerequisite: Grades 11-12 or Permission of Instructor*

In this course, students will study the communication process; practice interpersonal, public, and group communication; and learn how to cope with communication apprehension, one of the most paralyzing emotions which keep people from quickly climbing the ladder of success. In the competitive worlds of work or college, public speaking is a critical personal and professional skill.

### 049 Debate: 1 Trimester

*Prerequisite: Grades 10-12; Permission of Instructor*

Students are introduced to public forum and other types of debate in the fall trimester of this course. Students learn and practice various argumentation styles and participate in entry-level debates on the national debate topic resolution. Students learn and practice listening and evaluative skills. Quite a bit of research and writing are included in this class. This class is for serious students who wish to enhance their research, public speaking, and argumentation skills. Students enrolled in this class may choose to participate in co-curricular debates at the invitational and state levels.

### 080 Advanced Debate: 1 Trimester

*Prerequisite: Debate; Permission of Instructor*

This course prepares students for debate at a higher level than Debate (049) to coincide with the competition season in Michigan. Students apply basic speech principles, logical argumentation and research to prepare for the interscholastic debate season. Travel to weekend competition and/or league meets is required. The majority of the class time is devoted to research, practice, and preparation for weekend tournaments.

### *Publication Courses*

**070 Tech Writing-Yearbook: 3 Trimesters**

*Prerequisite: English 10 or Honors English 10; Grades 11-12; Permission of Instructor*

Students will be involved with the complete physical and financial production of The Salinian yearbook through copy writing and editing, photography, page layout and design, advertising and marketing. Students must be reliable, self-disciplined, and able to follow written and oral communications. Meeting deadlines is critical. Staff members are required to work with adults and peers, both in school and in the business community. Computer skills, particularly with Adobe InDesign and Adobe Photoshop are important for this class. Knowledge of digital photography is also helpful. Out-of-school time will be required to meet deadlines and sell advertisements.

### *Interdisciplinary Course*

**875 Senior Capstone Experience: 3 Trimesters**

*Prerequisite: Grade 12; a minimum GPA of 3.0; Application acceptance*

Senior Capstone Experience (SCE) is a year-long interdisciplinary course. Two main components of the course are project based learning and community service. The course is centered on one guiding question: What are a student's local, state, national, and world responsibilities? The purpose of the course is for seniors to synthesize areas of future study in light of the local and global community. *Upon completion, students will receive .5 credits in English, Science and Social Studies.*

### 606 Health Education II: 1 Trimester

*Prerequisite: Health Education*

This course is a further exploration of a few of the crucial concepts introduced in Health Education. Students will take part in self-evaluation of their nutritional, physical, and stress levels. The students would then engage in activities that would allow them to take responsibility and bring about positive change in each of these areas. Primary focus of the class will be for students to become self-directed learners who have acquired the skills needed to be a healthy person in today's society. This is a hands on, activity based class where students will deepen their knowledge of various health topics, and build skills for implementing healthy changes in their daily life.

### 626 Health Education: 1 Trimester

*Prerequisite: None; Required for Graduation*

Students will gain a greater understanding of the importance of their behavior and choices in relation to their health. The driving focus of the class is to turn the responsibility of the student's health over to the student. This is a lecture, discussion and project based class. The curriculum utilizes the Michigan Model for Health Education. There is no textbook for this class, however, there will be selected readings from current research, videos and other resources on current health issues.

Topics covered will include: Skills for Health Education Student, Nutrition and Physical Activity, Alcohol, Tobacco, and Other Drugs (ATOD), Safety, Sexual and Reproductive Health, Social/Emotional Health, and, Personal Health and Wellness.

*Parents may opt their student out of the sexuality unit. Please see your health teacher's syllabus regarding the opt-out notification process.

### 834 Parenting: 2 Trimesters

*Prerequisite: Grades 10-12*

This course examines personal readiness to become a parent and the issues important to raising healthy children with positive parent-child relationships. Through practical experiences, including a lab at Pooh Corner, and experience with a computerized infant, students will develop the necessary knowledge to encourage children's physical, social, emotional, and intellectual development.

### 835 L2B – Learning to B.R.E.A.T.H.E: 1 Trimester

The stress of balancing busy schedules, schoolwork, after school commitments and home life can be challenging and overwhelming at times. Learning to channel your attention to productive tasks, to sustain motivation when work becomes demanding, and to handle the frustrations of sharing, learning and communication with peers are skills that depend on the ability to understand and manage emotions. *Learning to Breathe* is a researched-based curriculum designed to help adolescents reduce stress, improve their attention, manage emotions, and gain great control over their own thoughts and actions – essential skills for optimizing classroom learning and promoting well-being.

This mindfulness-based program is structured around the following 7 themes empowering student to *Learn To BREATHE* when the stress of life's demands take us off course, bringing balance and focus back to where it needs to be.

B – Listen to your Body.
R – Reflections (thoughts) are just thoughts.
E – Surf the waves of your Emotions.
A – Attend to the inside and the outside.
T – Try Tenderness – Take it as it is.
H – Practice Healthy Habits of mind.
E – Gain the inner Edge. Be Empowered!

### 846 Family & Personal Living: 1 Trimester

*Prerequisite: Grades 10-12*

This exciting course is designed to aid young adults in transferable life skills, focusing on the creation of strong, healthy families, identifying values, setting and achieving goals, as well as developing personal responsibility. Included in the course are topics such as personality development, communication skills, characteristics of love, dealing with family crisis and life changes. This interactive and discussion-based course provides the student with the skills needed for developing healthy relationships in various settings. This class is a must for those who plan to pursuit a career working in the field of human services or who wish to enhance communication and relationship skills in both their personal and professional lives.

### 850 Practical Nutrition: 1 Trimester

*Prerequisite: Grades 10-12*

The formation of healthy eating habits is a learned behavior and high school students are forming habits that will follow them through their lifetime. This class will help students become educated about nutrition and will help them to make healthy food choices in their everyday life. Students will explore nutrition facts and apply their knowledge through hands-on, interactive lessons utilizing current research. Students will be able to analyze their own diets and make recommendations for change towards a healthier lifestyle. Course topics and activities will include but are not limited to: Nutritional requirements of the ChooseMyPlate model (formerly the food pyramid), accessing and analyzing nutritional essential nutrients, healthy cooking, weight management, dangerous eating habits and the media's role in eating behaviors.

### 855 Fashion Design: 1 Trimester

*Prerequisite: Grades 10-12*

This course introduces sewing basics and the world of fashion. This is a student-driven course where students will learn techniques in sewing machine basics as well as fashion drawing, and the elements and principles of fashion design. The information presented provides practical knowledge to identify clothing characteristics and how to build a wardrobe. Students will learn about personal style and dressing for their body shape utilizing the elements and principles of design. Students will be able to create a sewing project of their choice utilizing the skills learned in class. No prior sewing skills required.

### 860 Consumer Economics: 1 Trimester

*Prerequisite: Grades 10-12*

Students will learn budgeting, financial planning, and decision making with regards to money. We will follow the "Take Charge Today" - Financial Education for a Better Future curriculum, which is a hands on and interactive approach to learning financial literacy. Other topics include buying a car, leasing an apartment, saving money, use of credit cards, and purchasing big ticket items such as TVs, computers, etc. This is a hands on and practical application class, which provides students with the knowledge of how to plan for the future and achieve personal financial goals.

### 865 Senior Strategies: 1 Trimester

*Prerequisite: Grade 12*

Statistics show many students who enter college as freshmen never complete their schooling. Senior Strategies will address the needs of students to achieve success. This student centered course includes units on time management, organization and study skills, and culminates with students compiling and identifying documents of important files that they will need access to in the future. Technology and internet lessons are used to explore careers and to find a place to live. Topics also include budgeting, credit use, reaching financial goals, making major purchases and roommate issues. Food labs will concentrate on quick, nutritious foods for college life in order to transfer the responsibility of a student's health to the student.

***Applied Mathematics Sequence***

*Courses in this sequence are designed for students who do not intend to pursue a course of study beyond high school that will have a mathematics component, as well as to prepare students with the skills they need to enter the work force. The sequence of offerings is sufficiently broad to allow students to enter the sequence at various levels and provide plenty of opportunity to study mathematics and its applications to the outside world.*

### 211 Algebra 1: 3 Trimesters

*Prerequisite: None*

Algebra 1 builds upon a number of key algebraic topics developed in the middle grades, including knowledge of linear patterns of change and familiarity with non-linear patterns such as exponential and quadratic. It is expected that students in Algebra 1 will learn to recognize and solve mathematical and real world problems involving linear, quadratic, polynomial and exponential relationships and will learn to make sense of and move fluently among the graphic, numeric, symbolic and verbal representations of these patterns.

### 219 Geometry Fundamentals: 2 Trimesters

*Prerequisite: Algebra 1*

This course gives students experience with the language and principles of Euclidean Geometry in a way that is intended to be accessible to all students. Students study parallel and perpendicular lines, polygons, congruence and similarity, circles, area and volume. There is a strong emphasis on understanding, with frequent opportunities for students to practice and maintain skills while applying concepts to real-world problems.

### 225 Algebra 2 Fundamentals: 2 Trimesters

*Prerequisite: Geometry Fundamentals*

The goal of Algebra 2 Fundamentals is to build upon the concepts taught in Algebra I and Geometry Fundamentals while adding new concepts to the student's repertoire of mathematics. Topics covered include systems of linear equations and inequalities; linear, quadratic, polynomial, rational, exponential and logarithmic functions; matrices; sequences, conic sections and an introduction to trigonometry. Graphing calculators will be used extensively to graph functions, solve equations, operate on matrices and analyze sequences of numbers.

### 237 Applied Trigonometry: 1 Trimester

*Prerequisite: Algebra 2 Fundamentals*

Applied Trigonometry introduces students to the basic concepts of right triangle trigonometry as well as trigonometry from a circular function standpoint. Students will solve many application-based problems in this course and will make use of technology in their problem solving.

### 239 Applied Statistics: 1 Trimester

*Prerequisite: Algebra 2 Fundamentals*

This is a course in descriptive statistics. This course will focus on the examination of data gathered from real-world problems. Students will use statistical reasoning as they analyze problems using graphing calculators and computers. Writing will be an important component of the course.

### 244 Computer Science Fundamentals: 1 Trimester

*Prerequisite: None Grades 9-12*

Computer Science Fundamentals is a one trimester course that introduces the student to the basic concepts of computer programming using a language called SCRATCH and the programmable Finch robot. Topics covered will include procedures, variables, decisions, strings and loops. There are no computing prerequisites for this course. The course is designed for students with no prior computer programming experience. This course may be taken to satisfy a graduation requirement for a Math credit or a Technology credit.

***College Preparatory Sequence***

*Courses in this sequence are designed to prepare the student for the further study of mathematics at the university level. Students hoping to pursue an academic career beyond high school that may contain a mathematics component, such as business, science, medicine and the like, are encouraged to plan a high school course of study through Precalculus. Introduction to Calculus or AP Calculus AB are also highly recommended for the serious college-bound student.*

### 211 Algebra 1: 3 Trimesters

*Prerequisite: None*

Algebra 1 builds upon a number of key algebraic topics developed in the middle grades, including knowledge of linear patterns of change and familiarity with non-linear patterns such as exponential and quadratic. It is expected that students in Algebra 1 will learn to recognize and solve mathematical and real world problems involving linear, quadratic, polynomial and exponential relationships and will learn to make sense of and move fluently among the graphic, numeric, symbolic and verbal representations of these patterns.

### 223 Geometry: 2 Trimesters

*Prerequisite: Algebra 1*

This course gives students experience with the language and principles of Euclidean Geometry including the rigor of formal proofs. The key content includes the measurement of lengths, angles, areas and volumes and the geometry of lines, polygons and circles. Students will also be introduced to formal logic and mathematical proof, including both inductive and deductive reasoning.

### 231 Advanced Algebra 2: 2 Trimesters

*Prerequisite: Geometry*

The goal of Advanced Algebra 2 is to build upon the concepts taught in Algebra 1 and Geometry while adding new concepts to the student's repertoire of mathematics. Advanced Algebra 2 continues the study of linear, quadratic, polynomial and exponential functions and introduces rational, logarithmic and trigonometric relationships. Additional topics covered include matrices, sequences and conic sections. Graphing calculators will be used extensively.

### 245 Precalculus: 2 Trimesters

*Prerequisite: Advanced Algebra 2*

Precalculus forms the basis for the study of calculus, which is typically the first course in a college mathematics program. The key content for this course is the study of transcendental functions (exponential, logarithmic and trigonometric), and analytic geometry, and to deepen the understanding of algebraic functions. New mathematical tools such as vectors, matrices and polar coordinates are introduced. Successful completion of mathematics through Precalculus is essential for the college preparatory student.

### 247 Introduction to Calculus: 1 Trimester

*Prerequisite: Precalculus*

This is an introductory calculus course intended for those students who may wish to study calculus in college but are not prepared for the pace and rigor of Advanced Placement Calculus. This course is intended to introduce the topics of limits, differentiation and integration, as well as their applications, preparing the student for a more rigorous treatment of these topics once they reach college. It is recommended that any student intending to study math, science, or business related fields at the college level have some introduction to calculus while still in high school, if possible.

### 249 AP Calculus AB: 3 Trimesters

*Prerequisite: Precalculus*

This course is designed to prepare students for the Advanced Placement Examination in Mathematics AB. AP Calculus AB is a course in the calculus of elementary functions comparable to first year courses offered at colleges and universities. Students earning qualifying scores on the AP Exam may receive advanced placement and/or advanced credit upon matriculation to the college or university of their choice. This course is intended for students who have a thorough knowledge of college preparatory mathematics, including algebra, geometry and trigonometry.

### *The Honors Sequence*

*Courses in this sequence are designed to challenge academically talented students while preparing them for further rigorous study of mathematics at the university level. Students hoping to pursue academic careers with strong mathematics components, such as, mathematics, science and engineering, are strongly encouraged to plan a high school course of study through AP Calculus BC.*

### 232 Honors Advanced Algebra 2: 2 Trimesters

*Prerequisite: Geometry*

Honors Advanced Algebra 2 is intended to be a rigorous Advanced Algebra course. The key content for this course is identical to Advanced Algebra 2; however greater emphasis will be placed on rigor and proof in this honors course than in the regular course. Additional topics not covered in Advanced Algebra 2, including the binomial expansion theorem, linear programming and curve fitting, may also be explored. Graphing calculators will be used extensively.

### 246 Honors Precalculus: 2 Trimesters

*Prerequisite: Honors Advanced Algebra 2*

Honors Precalculus forms the basis for the study of calculus, which is typically the first course in a college mathematics program. The key content for this course is identical to Precalculus; however greater emphasis will be placed on rigor and proof in this honors course than in the regular course. Successful completion of the mathematics sequence through Precalculus is designed to thoroughly prepare the student for the study of calculus, either at the college level or in an Advanced Placement course taken in high school.

### 250 AP Calculus BC: 3 Trimesters

*Prerequisite: Honors Precalculus*

This course is designed to prepare the student for the Advanced Placement Examination in Mathematics BC. AP Calculus BC is somewhat more rigorous than AP Calculus AB, covering more material at a faster pace. Additional topics in AP Calculus BC include the calculus of polar, vector and parametric functions as well as power series and Taylor polynomials. Successful completion of the Advanced Placement Examination in Calculus BC will normally earn the student college credit and/or advanced placement one semester beyond that granted for Calculus AB.

### *Additional Courses*

*Additional courses in Statistics and Computer Science are offered to interested students, but do not necessarily need to be taken in sequence with the other courses listed above. These courses may be elected any time after the prerequisites have been met. Certain Career and Technical Ed courses and Business Department courses will fulfill the fourth year Math course requirement. Please see your Guidance Counselor for more information.*

### 240 Statistics: 1 Trimester

*Prerequisite: Honors Adv. Algebra 2 or Adv. Algebra 2 or Algebra 2 Fundamentals*

This is a course in both descriptive statistics and inferential statistics. The course will focus on the examination of data gathered from real-world problems. Students will use statistical reasoning as they analyze problems using graphing calculators and computers. Writing will be an important component of the course.

### 241 AP Statistics: 2 Trimesters

*Prerequisite: Statistics*

This course is a two trimester continuation of Statistics offered only during the second and third trimesters and is designed to prepare the student for the Advanced Placement Examination in Statistics. AP Statistics is a rigorous extension of the topics covered in Statistics, including additional topics that are needed to successfully complete the AP Exam. This course provides a thorough background in the analytical statistical methods used in social science, medical science, economics and engineering. Students earning qualifying scores on the AP Exam may earn advanced placement and/or advanced credit upon matriculation to the college or university of their choice.

### 242 Computer Science: 1 Trimester

*Prerequisite: Honors Geometry or Geometry or Geometry Fundamentals*

Computer Science is a one-trimester course that introduces the student to the "science" of computer programming. A large part of the course is built around the development of computer programs that correctly solve a given problem. The course also emphasizes the design issues that make programs understandable, adaptable, and, when appropriate, reusable. The course is designed for students with no prior computer programming experience. However, students with prior programming experience who take the course can expect to benefit substantially from the study of "good" programming practices and efficient algorithm development.

### 243 AP Computer Science: 2 Trimesters

*Prerequisite: Computer Science*

AP Computer Science is a two-trimester continuation of Computer Science intended to prepare the student to successfully complete the AP Exam in Computer Science A. Computer Science A is typically the first college-level course in computer programming for students interested in studying computer programming, computer science, mathematics, engineering, physical sciences and social sciences at the university level. Students earning qualifying scores on the AP Exam may earn advanced placement and/or advanced credit upon matriculation to the college or university of their choice.

### 715 Symphony Orchestra: 3 Trimesters

*Prerequisite: Previous Playing Experience*

Symphony orchestra is for all students in grades 10-12 who play violin, viola, cello or bass. This ensemble provides student with a variety of performing opportunities; including string orchestra, full orchestra, chamber ensembles, and solos. Symphony Orchestra performs literature at the class C, B, A difficulty level from the MSBOA basic music list (see www.msboa.org). Key concepts of include building instrumental technique skills, music reading, ensemble rehearsal skills, music history, and ear training.

### 720 Chamber Orchestra: 3 Trimesters

*Prerequisite: Prearranged Audition and permission of instructor*

Chamber Orchestra is for all students in grades 10-12 who play violin, viola, cello or bass. This ensemble provides student with a variety of performing opportunities; including string orchestra, full orchestra, chamber ensembles, and solos. Chamber Orchestra performs literature at the class C, B, A difficulty level from the MSBOA basic music list (see www.msboa.org). Key concepts of Chamber Orchestra include building instrumental technique skills, music reading, ensemble rehearsal skills, music history, and ear training.

### 725 9th Grade Band: 3 Trimesters

*Prerequisite: Previous Playing Experience*

Ninth Grade Band is for students who play a wind or percussion instrument. This ensemble provides students with a variety of performing opportunities; including full band, full orchestra, chamber ensembles, and solos. Ninth Grade Band performs literature at the class D, C, B difficulty level from the MSBOA basic music list (see www.msboa.org). Key concepts of Ninth Grade Band include building instrumental technique skills, music reading, ensemble rehearsal skills, music history, and ear training.

### 726 9th Grade Orchestra: 3 Trimesters

*Prerequisite: Previous Playing Experience*

Ninth Grade Orchestra is for students who play violin, viola, cello or bass. This ensemble provides students with a variety of performing opportunities; including string orchestra, full orchestra, chamber ensembles, and solos. Ninth Grade Orchestra performs literature at the class D, C, and B difficulty levels from the MSBOA basic music list (see www.msboa.org). Key concepts of Ninth Grade Orchestra include building instrumental technique skills, music reading, ensemble rehearsal skills, music history, and ear training.

### 727 9th Grade Mixed Choir: 3 Trimesters

*Prerequisite: None*

Ninth Grade Mixed Choir is for students who sing any voice part (soprano, alto, tenor, or bass). This ensemble provides a variety of performing opportunities; including full choir, chamber ensembles, solos, festival and Cabaret. Ninth Grade Mixed Choir performs literature at the primary and intermediate difficulty levels from the MSVMA repertoire list (see www.msvma.org). Key concepts of this class include developing vocal technique skills, music reading, learning solfège, ensemble rehearsal skills, music history, and ear training.

### 728 Music Theater and Operetta Workshop: 3 Trimesters

*Prerequisite: None*

Music Theater/Operetta Workshop is for all students in grades 9-12 who are interested in vocal music and drama. This class provides students with a variety of performing opportunities including short music drama scenes, small choral ensembles and a fully staged operetta or musical theater production every trimester. Key objectives of this course include developing vocal techniques skills, music reading, ensemble rehearsal skills, character development and stage movement.

### 733 Wind Ensemble: 3 Trimesters

*Prerequisite: Prearranged Audition and permission of instructor*

Wind Ensemble is for student in grades 10-12 who play a wind or percussion instrument. This ensemble provides students with a variety of performing opportunities; including full band, full orchestra, chamber ensembles, and solos. Wind Ensemble performs literature at the class B, A, AA difficulty level from the MSBOA basic music list (see www.msboa.org). Key concepts of Wind Ensemble include building instrumental technique skills, advanced music reading, ensemble rehearsal skills, music history, and ear training.

### 734 Symphonic Band: 3 Trimesters

*Prerequisite: Previous Playing Experience*

Symphonic Band is for all students in grades 10-12 who play a wind or percussion instrument. This ensemble provides students with a variety of performing opportunities; including full band, full orchestra, chamber ensembles and solos. Symphonic band performs literature at the class C, B, A difficulty level from the MSBOA basic music list (see www.msboa.org). Key concepts of Symphonic Band include building instrumental technique skills, music reading, ensemble rehearsal skills, music history, and ear training.

### 741 Chamber Choir: 3 Trimesters

*Prerequisite: Prearranged Audition and permission of instructor*

Chamber Choir is for students in grades 10-12 who sing any voice part (soprano, alto, tenor or bass). This ensemble provides a variety of performing opportunities including mixed choir (SATB), treble choir (SSAA), and men's ensemble (TTBB), solos, festivals and Cabaret. Chamber Choir performs literature at the advanced difficulty level from the MSVMA repertoire list (see www.msvma.org). Key concepts of this class include developing vocal technique skills, advanced music reading, solfège, ensemble rehearsal skills, music history, appreciation and ear training.

### 742 Colla Voce: 3 Trimesters

*Prerequisite: Prearranged audition and permission of instructor*

Colla Voce is a treble choir for female students in grades 9-12. This ensemble provides a variety of performing opportunities including SSA and SSAA repertoire, solos, festivals and Cabaret. Colla Voce performs literature at the intermediate to advanced difficulty level from the MSVMA repertoire list (see www.msvma.org). Key concepts of this class include developing vocal technique skills, intermediate/advanced music reading, solfège, ensemble rehearsal skills, music history, appreciation and ear training.

### 750 Music Theory: 1 Trimester

*Prerequisites: Read music at the intermediate level, basic instrument or voice skills*

Basic Music Theory is for all students in grades 9 -12 who want to know more about music. Because music is an important part of life, knowing how music is put together can improve the performance of music, increase the understanding of music and expand the enjoyment of music.

### 753 Introduction to Guitar: 1 Trimester

*Prerequisites: None*

Introduction to Guitar is for students in grades 9-12 who have never played guitar. Students will learn basic hand and finger positions, primary chords, simple strumming patterns and single note melodies. Reading and writing musical notation and guitar tablature are also components of this course. Singing while playing as well as basic care and maintenance of the instrument will be included in the curriculum. Only acoustic and classical guitars are used in this course. A school instrument will be provided, but students may bring an instrument from home.

### 752 Guitar I: 1 Trimester

*Prerequisites: Introduction to Guitar, or permission of instructor*

Guitar I is for students in grades 9-12 with basic guitar skills who want to improve their performance level and ability to read and write musical notation and tablature. Students will learn hand and finger techniques, advanced chords, syncopated strumming patterns, finger picking patterns, and single note melodies in different positions. Music theory as it relates to guitar performance will be introduced in Guitar I. Singing while playing will be a component of the class. Students will also design individual projects and recital programs during the trimester. Care and maintenance of the instrument will be included in the course, and only acoustic or classical guitars may be used. Students are encouraged to provide their own instrument for Guitar I, but school instruments will be available if necessary.

### 754 Guitar II: 1 Trimester

*Prerequisite: Guitar I or permission of instructor*

Guitar II is for students in grades 9-12 with intermediate or advanced guitar skills who want to improve their performance level and the ability to read and write musical notation and tablature. Students will learn hand and finger techniques, chord construction, scales, specialized strums and picking patterns, articulations, and basic improvisation skills. Musical notation and music theory as it relates to guitar performance will be continued in Guitar II. Singing while playing will be a component of the class. Students will design a specific individual study project culminating in an extended recital during Guitar II. Care and maintenance of the instrument will be included in the course, and only acoustic or classical guitars may be used. Students should provide their own instrument for Guitar II, but school instruments will be available if necessary.

### 756 Concert Choir: 3 Trimesters

*Prerequisites: Previous singing experience*

Concert Choir is for all students in grades 10-12 who sing any voice part (soprano, alto, tenor or bass). This ensemble provides a variety of performing opportunities including mixed choir (SATB and SAB), treble choir (SSA and SSAA), solos, festivals and Cabaret. Concert Choir performs literature at the intermediate difficulty level from the MSVMA repertoire list (see www.msvma.org). Key concepts of this class include developing vocal technique skills, music reading, learning solfège, ensemble rehearsal skills, music history, appreciation, and ear training.

### 758 A Cappella Basics: 1 Trimester

*Prerequisites: None*

A Cappella Basics is for students in grades 9-12 who sing any voice part (soprano, alto, tenor or bass). In this elective class, students who are confident and independent singers will learn the basics of a cappella part singing in a variety of styles including madrigal, jazz and pop.

### 760 Acting I: Beginning Acting: 1 Trimester

*Prerequisites: None*

All ability and experience levels of students are welcomed to work on the skills of live performance: pantomime, voice, characterization, physical presence, and thinking on their feet. This course is designed to use improvisation, monologue, and small scene work to study and practice the art of acting.

Student success=respect, effort, participation and attendance.

### 762 Acting II: Intermediate Acting: 1 Trimester

*Prerequisites: Acting I with a B or better or permission of instructor*

Students build on their previous acting experience. Students continue to work on voice, body, and movement techniques introduced in Acting I. This course is for anyone interested in furthering their acting skills and learning to better critique their own work as well as that of others. Student success = respect, effort, growth, participation and attendance.

### 764 Stagecraft: 1 Trimester

*Prerequisites: None*

This course allows students to build their knowledge of the varied aspects involved in putting together a production. Units include the study of: history of theatres, design elements, set creation, costumes, make-up, lights and sound, stage managing and publicity.

### 765 Drama – Mask and Puppet: 1 Trimester

*Prerequisite: Acting 1 at HS or 1 year of MS drama class; some exceptions may be made by arrangement with the teacher.*

*Grades 9-12*

Did you know that in most of the world masks and puppets are not for kids? Did you know that Saline and Michigan have significant historical connections to this work? Did you know that masks and puppets are very hot in theatre right now? Did you know that they are also ancient? Did you know that masks and puppets have significant connections to performance, pop culture, history, geography, culture, religion, education, art and design, and politics? Mask and Puppet allows you to explore those connections, but you don't have to be great at any of those to be a success in this class. Join us to explore, connect, analyze, and animate the inanimate!

### 607 Fitness for Athletes - Fall: 1 Trimester

*Prerequisite: Basic Physical Education I & II; participation in a SAS Athletic Team*

This is an elective course for the Saline High School student-athlete. The basis of this course is to develop each of the components of fitness to a higher level while drawing on the connections to athletics. Everything done in this class will be to further enhance the athletic performance. Regular testing of fitness levels including flexibility, agility, vertical jump and speed will be recorded and tracked. All major muscle groups will be developed as a part of the core exercises performed in the weight room while auxiliary lifts will be determined based upon individual sports and the personal development each individual athlete may require. Coaches of all Saline Athletics will have access to the data for their athletes to evaluate their development.

### 608 Fitness for Athletes - Winter: 1 Trimester

*Prerequisite: Basic Physical Education I & II; participation in a SAS Athletic Team*

This is an elective course for the Saline High School student-athlete. The basis of this course is to develop each of the components of fitness to a higher level while drawing on the connections to athletics. Everything done in this class will be to further enhance the athletic performance. Regular testing of fitness levels including flexibility, agility, vertical jump and speed will be recorded and tracked. All major muscle groups will be developed as a part of the core exercises performed in the weight room while auxiliary lifts will be determined based upon individual sports and the personal development each individual athlete may require. Coaches of all Saline Athletics will have access to the data for their athletes to evaluate their development.

### 609 Fitness for Athletes - Spring: 1 Trimester

*Prerequisite: Basic Physical Education I & II; participation in a SAS Athletic Team*

This is an elective course for the Saline High School student-athlete. The basis of this course is to develop each of the components of fitness to a higher level while drawing on the connections to athletics. Everything done in this class will be to further enhance the athletic performance. Regular testing of fitness levels including flexibility, agility, vertical jump and speed will be recorded and tracked. All major muscle groups will be developed as a part of the core exercises performed in the weight room while auxiliary lifts will be determined based upon individual sports and the personal development each individual athlete may require. Coaches of all Saline Athletics will have access to the data for their athletes to evaluate their development.

### 610 Aerobics: 1 Trimester

*Prerequisite: Basic Physical Education I & II*

This is an elective course in aerobic activities, including stretching, toning, endurance training, and strength training of major muscle groups. Students will participate in a range of aerobic activity including, but not limited to, high/low aerobics, step aerobics, yoga and pilates. Other health-related topics will be discussed throughout the course to emphasize lifetime fitness.

### 612 Basic Physical Education I: 1 Trimester

*Required for Graduation*

Physical Education is an integral part of the total educational process, with the emphasis on building a physically, emotionally, mentally and socially fit community and nation. The mind and body represent a unity in the study. The physical education department offers the basic program to our students. It is extensive in scope with a variety of activities. The program includes tennis/pickle-ball, soccer, flag football, volleyball, badminton, basketball and basic swimming. The activities will vary according to availability of facilities and the weather.

### 611 Fitness for Freshmen Athletes - Winter: 1 Trimester

*Prerequisite: Basic Physical Education I; participation in a SAS Athletic Team*

This is an elective course for the Saline High School freshman student-athlete to be taken in lieu of Basic PE II. The focus of this course is to introduce the freshman athlete to the concepts of fitness and how to train as an athlete while continuing the cardiovascular development from Basic PE I. Students will learn how to perform the proper techniques related to the core lifts of the Hornet Strength Program, auxiliary lifts for their sports along with spotting and other safety components relative to fitness training. Regular testing of fitness levels including flexibility, agility, vertical jump and speed will be recorded and tracked for progress. All major muscle groups will be discussed and trained as a part of the core exercises performed in the weight room. At the conclusion of this course, the freshman student-athlete will be prepared to take the Fitness for Athletes course open to all $10^{th}$ to $12^{th}$ grade student-athletes.

### 613 Fitness for Freshmen Athletes - Spring: 1 Trimester

*Prerequisite: Basic Physical Education I; participation in a SAS Athletic Team.*

This is an elective course for the Saline High School freshman student-athlete to be taken in lieu of Basic PE II. The focus of this course is to introduce the freshman athlete to the concepts of fitness and how to train as an athlete while continuing the cardiovascular development from Basic PE I. Students will learn how to perform the proper techniques related to the core lifts of the Hornet Strength Program, auxiliary lifts for their sports along with spotting and other safety components relative to fitness training. Regular testing of fitness levels including flexibility, agility, vertical jump and speed will be recorded and tracked for progress. All major muscle groups will be discussed and trained as a part of the core exercises performed in the weight room. At the conclusion of this course, the freshmen student-athlete will be prepared to take the Fitness for Athletes course open to all 10th to 12th grade student-athletes.

### 614 Fitness for Life: 1 Trimester

*Prerequisite: Basic Physical Education I & II*

This is an elective course for any Saline High School student. The basis of this course is to develop each of the components of fitness to a higher level while introducing all major muscle groups. Everything done in this class will be to further enhance each individual student's fitness level based upon their personal fitness level. Regular testing of fitness levels including flexibility, agility, vertical jump and speed will be recorded and tracked. All major muscle groups will be developed as a part of the core exercises performed in the weight room while auxiliary lifts will be determined based upon the individuals personal goals.

### 616 Individual Sports: 1 Trimester

*Prerequisite: Basic Physical Education I & II*

The objective of this course is to expose individuals to a variety of sports that have carry-over value into later life. The course will cover archery, badminton, tennis, pickle-ball, bowling, fitness and possibly paddleton. The activities may vary according to availability of facilities and equipment.

### 621 Team Sports: 1 Trimester

*Prerequisite: Basic Physical Education I & II*

This elective course in Physical Education offers advanced techniques and skill levels in team sports. The objective of this course is to expose individuals to a variety of team sports that have carry-over value into later life. The sports introduced in each trimester are as follows: Fall: Flag Football, Soccer, Volleyball, Pickleball, Frisbee Golf, and Tennis. Winter: Basketball, Innertube Water Polo, Badminton, European Handball, Kickball/Whiffle ball and Floor Hockey. Spring: Lacrosse, Chicago Ball, Ultimate Frisbee, Dodgeball, Orienteering and Track/Field. ***The sports may vary according to availability of facilities and equipment.***

### 623 Fitness for Females: 1 Trimester

*Prerequisite: Female students who have passed Basic Physical Education I & II*

This is an elective course for the Saline High School female students. The basis of this course is to develop each of the components of fitness and striving for the development of lean muscle. Regular testing of fitness levels including flexibility, agility, vertical jump and speed will be recorded and tracked to identify each student's progress. All major muscle groups will be developed as a part of the core exercises performed in the weight room while auxiliary lifts will be introduced and discussion as to how they relate to various muscle groups will be shared for toning purposes. This will be a class for both the female athlete and the female student looking for overall fitness development in a comfortable environment.

### 624 Basic Physical Education II: 1 Trimester

*Prerequisite: Basic Physical Education I; Required for Graduation*

Physical Education is an integral part of the total educational process, with the emphasis on building a physically, emotionally, mentally and socially fit community and nation. The mind and body represent a unity in the study. The physical education department offers the basic program to our students. It is extensive in scope with a variety of activities. The program includes tennis/badminton, soccer, volleyball, basketball, European handball, whiffle ball and floor hockey. The activities will vary according to availability of facilities and the weather.

*Courses in this section may be elected by students on Individualized Educational Plans who need specialized instruction outside of the general education classroom. Course content parallels the general education curriculum and is offered to assist students with remediation of basic skills and to prepare them for more rigorous coursework.*

### 001 Basic Biology: 2 Trimesters

The Biology RR course is designed to provide the student with an introduction to the life sciences. Topics covered include study of the cell, cell replication, DNA, ecology, evolution, and classification of organisms. This course is required for graduation from Saline High School. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 002 Basic Physical Science: 2 Trimesters

This course fulfills 1 credit of the three-credit science requirement. Physical Science is designed to provide students with a foundation in science study in introductory chemistry and physics concepts. The topics include structure and properties of matter, atomic structure, writing and balancing chemical equations, Newton's Laws of Motion, energy, momentum, electricity, heat, waves, sound and light. This course is designed for students on an IEP who need specific instruction outside the general education setting.

### 003 Reading Strategies: 1 Trimester

This class will focus on developing reading strategies that students need when reading all types of text. This class will emphasize strategies which allow students to infer, connect, and summarize text. Texts will be determined by student need and interest. Regular reading and writing will be required. Students will be assessed on assignments and class participation. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 005 Basic English 11: 1-2 Trimesters

This class will focus on developing students' writing skills as well as using writing to engage with literature. This class will teach students to use the writing process to effectively develop their writing through various types of essays. These may include persuasive, informal, research, personal, and argumentative. Students in this class will improve specific writing skills by using a variety of strategies. They will practice writing essays for standardized assessments. Grades will be determined by assignments, tests, projects and class participation. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 006 Basic English 10: 1-2 Trimesters

This class will introduce students to a variety of literature from various authors. Students will have an opportunity to respond to their reading through classroom discussion and writing assignments. Recommended literature will be provided for students. Regular reading will be required as well as classroom writing assignments to assess comprehension. Students in this class will explore different kinds of literature using high interest and classic novels. Areas of concentration include identifying themes, characterization, authors and integrating information within a text. Students will also evaluate and react critically to assigned readings. Grades will be determined by assignments, tests, projects and class participation. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 034 Basic English 9: 1-2 Trimesters

This class will expose students to reading, synthesizing, analyzing, and critically analyzing literature and informational text. Writing assignments will be a combination of expressive and informational styles. Grades will be determined by assignments, tests, projects, writing assessments, and a final exam. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 009 Academic Support: 1-3 Trimesters

This class is designed to provide students assistance with course work, additional time to complete assignments/ assessments, re-teaching of concepts and tutorial, support with time management and organization, self-advocacy and understanding IEP accommodations/ process, goal setting, and a chance to develop and improve their study habits. The Academic Support class meets daily, under the direction of a teacher consultant, and can be selected from 1-3 trimesters each year. Successful completion of this class will give students one half of an elective credit toward graduation per trimester. ACADEMIC SUPPORT IS NOT A SUBSTITUTE FOR DOING HOMEWORK AT HOME. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 010 Basic World History: 2 Trimesters

The study of world history is a study of the human experience. Students will study the origins and development of the world's major cities, leaders, religions and much more. Students will develop reading and writing skills as well as focus on organizational and personal management skills. Students will gain a global perspective on important issues of the past and present. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 011 Basic U.S. History: 2 Trimesters

This course, required of all tenth graders, will cover post-Reconstruction U.S. History and is based on the standards and benchmarks accepted by the Michigan State Board of Education. Students will learn and acquire many skills in the four social studies areas of history, economics, civics and geography as they relate to the growth and development of the United States. This course is designed for students on an IEP who need specific instruction outside the general education setting.

### 012 Basic Government: 1 Trimester

Government is a study of citizenship and government with particular attention given to the role of citizens in the operation and oversight of government. Governmental issues, institutions and the rights and responsibilities of being a citizen will be a central focus of this course. Students will develop reading and writing skills as well as focus on organizational and personal management skills. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 013 Basic Economics: 1 Trimester

This is a required course for graduation. This course surveys the most significant concepts in the United States' capitalist economy. From the big picture, or macro-economic perspective, students will study government regulations and taxes, inflation, money and banking, the stock market and international trade. On the smaller, or microeconomic scale, students will consider individual business decisions, entrepreneurship, personal savings and investments, and consumer preferences. Projects and simulations will be incorporated to enhance the practical understanding of these concepts in order to better prepare students for the real world. This course is designed for students on an IEP who need specific instruction outside the general education setting.

### 014 Basic Algebra 1: 3 Trimesters

Algebra 1 builds upon a number of key algebraic topics developed in the middle grades, including knowledge of linear patterns of change and familiarity with non- linear patterns such as exponential and quadratic. It is expected that students in Algebra 1 will learn to recognize and solve mathematical and real world problems involving linear, quadratic, polynomial and exponential relationships. This course is designed for students on an IEP who need specific instruction outside the general education setting.

### 015 Consumer Math: 1 Trimester

Students will be assessed to determine appropriate units of instruction based on their individual needs. Topics could include, but are not limited to, budgeting, money skills, financial planning, and decision-making skills with regard to money. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 016 Practical Math: 1 Trimester

Students will be assessed to determine appropriate units of instruction based on their individual needs. This course is designed for the student who needs a practical approach to learning math. Topics covered relate to everyday situations that involve math including, the 4 functions, place value, fractions, decimals, percent, time, money, problem solving and basic geometry. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 019 SE Work Experience: 1-3 Trimesters

Work Experience is a planned program of a general work experience for credit. This is not related to any particular class or career choice. This experience is: 1) coordinated with a training agreement with the employer; 2) a program recommended by the high school staff because of the student's specific needs and approved by an administrator; 3) arranged and monitored by a certified teacher; and 4) for a specific beginning and ending date of employment. Weekly meetings with a coordinator are required, time and attendance records are maintained and evaluations of the student's performance are completed frequently by the coordinator and work supervisor. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 020 Functional Academics: 1 Trimester

Students will be reading, writing, and working on functional mathematics related to fostering independence and awareness for safety. Students will focus on practical math skills that address money, making change, telling time, using a calendar, and using a calculator. Students will focus on writing skills that relate to technology and reading skills that relate to independent life skills. This course is designed for students on an IEP who need specific instruction outside the general education setting.

### 028 Basic Algebra 2 Fundamentals: 2 Trimesters

The goal of Algebra 2 Fundamentals is to build upon the concepts taught in Algebra I and Geometry while adding new concepts to the student's repertoire of mathematics. Topics covered include systems of linear equations and inequalities; linear, quadratic, polynomial, rational, exponential and logarithmic functions; matrices; sequences, conic sections and in introduction to trigonometry. Graphing calculators will be used extensively to graph functions, solve equations, operate on matrices and analyze sequences of numbers. This course is designed for students on an IEP who need specific instruction outside the general education setting.

### 029 Basic Geometry Fundamentals: 2 Trimesters

This course gives students experience with the language and principles of Euclidean Geometry in a way that is intended to be accessible to all students. Students study parallel and perpendicular lines, polygons, congruence and similarity, circles, area and volume. There is a strong emphasis on understanding, with frequent opportunities for students to practice and maintain skills while applying concepts to real-world problems. This course is designed for students on an IEP who need specific instruction outside the general education setting.

### 031 Personal and Independent Living: 1 Trimester

This course is designed to aid young adults in essential survival skills for after high school, while focusing on individualized needs. Topics may include self-advocacy, time management/organization, interpersonal/social skills, communication, cooking, household management, personal hygiene, and accessing community resources. The goal of this course is to develop skills that can lead to living independently while developing personal responsibility. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 000 Post Secondary Planning I: 1 Trimester

Students in this class will explore and increase employment skills, self-advocacy skills and identify available community resources appropriate for post secondary support. In addition, students will identify rights and responsibilities necessary for entering post secondary programs and independent living. Transition materials, guest speakers and the internet will be used to supplement classroom instruction. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 032 Post Secondary Planning II: 1 Trimester

This class is designed for students currently on an IEP who plan to attend college. Students in this class will learn the essential skills needed for success in college. Students will learn how to use Campus Learning Centers and understand their rights as a student with a disability in college. Other focus areas will be test taking strategies, study strategies, time management and healthy recreational opportunities available on college campuses. Students will also be given recommendations for specific community agencies that may be of use to them as they make the important transition from high school to college. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 996 Fitness for the Exceptional Student: 1 Trimester

Students will be alternating their workouts throughout the week with swimming, variations of cardio, light weight lifting and team sports. The goal is for the student to understand the important role fitness plays in their lives and develop a routine they can continue independently with the company of family/friends. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 998 Life Skills I: 1-3 Trimesters

This course is intended to develop and maintain life skills related to IEP goals in the areas of self-advocacy, community participation, functional money skills, and skills pertaining to cooking such as; reviewing recipes, measurement, cleaning, preparing food, food storage, and kitchen safety. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

### 999 Life Skills II: 1-3 Trimesters

This course is intended to develop and maintain pre-vocational and vocational skills related to IEP goals. Students will focus on being safe, respectful, and responsible within a work site. They will also learn how to participate and manage cleaning duties, clerical duties, and household duties. Students will learn how to work within different job sites with varying job supervisors. This course is designed for students on an IEP who need specific instruction outside of the general education setting.

*All students are required to earn three credits in science. The State of Michigan requires one credit in biology, one credit in physical science and a third science credit. Students may consider AP level courses to earn college credit. Students are encouraged to integrate mathematics courses along with their choices in science. The courses offered by the science department have been written to reflect increasing demand by society and colleges for a wide exposure to scientific principles and concepts.*

### 310 Earth and Space Science: 2 Trimesters

*Prerequisite: Grades 9–10; Departmental approval*

Earth and Space Science provides a study of the earth's lithosphere, atmosphere, hydrosphere, and its celestial environment. This course emphasizes the study of energy at work in forming and modifying earth materials, land forms, and continents through geological time. Students have opportunities to gain an understanding of the history of the development of the earth and space sciences, to explore the uses of knowledge of the earth and its environment in various careers, and to cope with problems related to personal needs and social issues. Students will cover topics on Earth materials, weathering and erosion, the atmosphere and climate, natural disasters, oceanography, and plate tectonics. In the second part of the course students will study topics on the solar system, galaxies, stars, space travel, history and issues in space exploration, black holes, etc.

### 311 Biology: 2 Trimesters

*Prerequisite: None*

This course satisfies the biology portion of a three-credit science requirement. Biology is divided into two trimesters; Biology A and Biology B. The topics covered in Biology A include the cell, cell energy, DNA, cell reproduction and human systems. The topics covered in Biology B include ecology, evolution, genetics and taxonomy. This is a robust course designed to teach the process of scientific study and give all students a mastery foundation in the biological sciences. The course provides lecture, class discussion and experimentation.

### 312 Honors Science 9: 3 Trimesters

*Prerequisite: Department Approval*

Freshmen students planning to take Advanced Placement courses in the sciences should consider this course as a preparation to the rigor of these future courses. Honors Science is designed to integrate three science disciplines, Chemistry, Physics, and Biology into three trimesters. Upon successful completion, students will receive one and a half science credits (1 physical science, ½ Biology), allowing the student to enter the AP courses with a foundation of background information.

### 313 Physical Science: 2 Trimesters

*Prerequisite: Algebra Fundamentals*

This course provides 1 credit of the physical science graduation requirement. Physical Science is designed to provide students with a foundation in science study in introductory chemistry and physics concepts. The topics include structure and properties of matter, atomic structure, writing and balancing chemical equations, nuclear chemistry, Newton's Laws of Motion, energy, momentum, electricity, heat, waves, sound and light. After completing this course, students may elect further study in Chemistry, Physics, Biology, Advanced Placement courses, or other science courses offered in the course guide.

### 326 Chemistry: 2 Trimesters

*Prerequisite: Algebra 1*

This course satisfies the physical science portion of a three-credit science requirement. Chemistry is intended for college-bound students in science or non-science majors to prepare them for college level Chemistry or Advanced Placement Chemistry. There is a strong mathematical approach and calculators are recommended. Laboratory work is emphasized. Topics covered in Part A include: Matter and Change, Atomic Theory and Structure, Molecular Structure, Stoichiometry. Part B will include: Gases, Solutions, Reaction Rates, Acids and Bases, Electro-Chemistry. Students must take Part A before taking Part B.

### 329 AP Environmental Science: 3 Trimesters

*Prerequisite: Biology (A and B); Chemistry or Physical Science Department Approval*

This college level introductory AP Environmental Science focuses on interactions between biotic and abiotic factors and human influences on the environment. Units include Human Population, Air/Water Quality, Solid/Hazardous Waste, the Biosphere and Global Issues. The course will consist of lecture, hands-on activities and lab activities in preparation for the AP Environmental Science exam offered in May. Students performing well on the AP exam may be eligible for college credit.

### 331 Conceptual Physics: 2 Trimesters

*Prerequisite: Algebra I*

Conceptual Physics is a physics course for students who want to learn all about Physics without the rigorous mathematics. This survey course covers topics in mechanics, fluids, electromagnetism, energy, waves & sound, and thermodynamics. These topics will be investigated from a conceptual point of view. The level of mathematics needed is basic algebra. This is a fun course that investigates the laws of physics in the context of real world applications and human intuition. Students will gain a good base for technically oriented jobs or further study in the sciences. Students should take Part A first, followed by Part B.

### 332 Physics: 2 Trimesters

*Prerequisite: Advanced Algebra*

Physics is a two trimester course covering topics in scientific methods and data analysis, one-dimensional and two-dimensional motion, Newton's laws, momentum, energy, waves and sound, static and current electricity, and Einstein's Theory of Relativity. The course is designed to challenge the intellect and unmask misconceptions about how things work based on false human intuition. A focus is placed on understanding the general principles of physics and using those principles to solve real world problems. There will be a strong emphasis on using technology to collect and analyze data as well as to report scientific findings. Performance will be evaluated based on homework and test scores as well as completion of laboratory experiments and in class activities. The level of mathematics necessary for this class requires a thorough understanding of algebraic principles and knowledge of geometry. Basic right triangle trigonometry will be taught and used over the course of the trimester. Students must take Part A before taking Part B.

### 335 Human Physiology: 2 Trimesters

*Prerequisite: Any Biology Class; Grades 11-12*

The essential concern of physiology is how living things work. As physiology relates to man, it is the study of the normal functioning of the human body. The methods and tools of physiology are those used in the experimental sciences, and its range cuts across many different scientific disciplines. Physiology emphasizes the basic functions of organs, the interactions and coordination of these diverse functions, and attempts to analyze these functions in terms of physical and chemical processes. A knowledge and understanding of the functioning of the body with nutrients and its component parts (particularly the digestive system) is the essential goal of this class. The following Units will be discussed: Disease, Chemistry, The Cell, Metabolic Fuels, Exercise Metabolism, Homeostasis, Tissues, Carbohydrates, Lipids, Proteins, Vitamins & Minerals, Water, and Supplements.

### 341 AP Physics: 3 Trimesters

*Prerequisite: Previous or Concurrent Enrollment in AP Calculus AB or AP Calculus BC*

This is a calculus-based college level course in introductory physics, including a thorough investigation of mechanics and an introduction to electricity and magnetism, modern physics and relativity. This course will prepare the student for the Advanced Placement exam in Physics C (Mechanics Option), administered by the College Board in May. Students performing well on this exam may receive college credit, advanced placement or both. This course is highly recommended for students interested in science or engineering.

### 342 AP Biology: 3 Trimesters

*Prerequisite: Honors Science and/or Chemistry*

This course satisfies the biology portion of a three credit science requirement. This is a college level course in biology. Emphasis will be placed on special laboratory techniques, data interpretation, and application of concepts. All areas of biology are covered in the course, including cellular structure, process, and functions; genetics; DNA replication and engineering; evolution; ecology; botany; microbiology; embryology; and anatomy and physiology of the various kingdoms. This course is recommended for students interested in biology and other sciences. Students may elect to take the AP Biology exam offered in May. Students performing well on this exam may receive college credit, advanced placement, or both.

### 344 AP Chemistry: 3 Trimesters

*Prerequisite: Algebra 1*

This course is a rigorous approach to the study of Chemistry. It is an in-depth survey course that covers topics typically introduced in Introductory Inorganic Chemistry at most colleges. The course is difficult and intended for a student that possesses academic discipline and is willing to study for 10-15 hours per week. While a student that has not previously had Physical Science can be successful, the average student will be overwhelmed with the pace of this course. Therefore, it is highly encouraged, though not mandatory, to take Physical Science or Chemistry as a prerequisite. AP Chemistry will cover advanced topics in matter and change, atomic structure and theory, stoichiometry, gas laws, energy and entropy, reaction types and rates, and electro-chemistry. Students may elect to take the AP Chemistry exam offered in May. Students performing well on this exam may receive college credit, advanced placement, or both.

### 346 Anatomy & Physiology: Movement & Control Systems: 1 Trimester

*Prerequisite: Biology and Chemistry or Biology and Physical Science*

This course is an Anatomy & Physiology course covering the Human Skeletal, Muscular, and Nervous Systems. The course work emphasizes a hands-on approach to learning about the human body including the study of models, mammalian dissections and interactive computer activities. This course is recommended for students interested in the health sciences: nursing, medicine, pharmacology, and medical technology, as well as any other interested student. This course may be taken before or after Anatomy & Physiology: Life Support Systems. Concurrent enrollment in both Anatomy and Physiology: Movement and Control Systems and Anatomy and Physiology: Life Support Systems is not allowed.

## 347 Anatomy & Physiology: Life Support Systems 1 Trimester

*Prerequisite: Biology and Chemistry or Biology and Physical Science*

This course is an Anatomy & Physiology course covering the Human Cardiovascular, Respiratory, Digestive, and Urinary Systems. The course work emphasizes a hands-on approach to learning about the human body including the study of models, mammalian dissections, and interactive computer activities. This course is recommended for students interested in the health sciences: nursing, medicine, pharmacology, and medical technology, as well as any other interested student. This course may be taken before or after Anatomy & Physiology: Movement and Control Systems. Concurrent enrollment in both and Anatomy and Physiology: Life Support Systems and Anatomy and Physiology: Movement and Control Systems is not allowed.

## 348 Forensic Science: 1 Trimester

*Prerequisite: Biology and either Physical Science or Chemistry*

Forensics is a course that concentrates on lab applications of biology, earth science, chemistry and physics. Background knowledge of biology, chemistry, and physics is required. The class is based on cooperative groups that work together designing and completing inquiry based lab investigations. Students will learn to analyze finger-prints, poisons, hair, blood (simulation), soil, and understand the application of this science to real life investigations. For each lab investigation students will be required to submit a formal detailed lab report of their investigation and its conclusion.

## 350 Exercise Physiology: 1 Trimester

*Prerequisite: Human Physiology; Grades 11-12*

Now more than ever, exercise is receiving special emphasis as a preventive measure, as well as a treatment, for morbidities such as obesity, diabetes, heart disease, stroke, and more. Whether recreational or Varsity, students are invited to take this course specializing in methods of investigation that utilize science as a foundation. Disciplines such as anatomy, biology, chemistry, microbiology, physics, and physiology, will be incorporated to explore the workings of the human body during physical stress (exercise, physical activity). The course is a follow-up to the studies of Human Physiology. Laboratory experimentation will take place as students will measure cardiovascular, pulmonary, and biochemical changes that occur as a result of physical stress.

## 352 Agriscience Biology: 3 Trimesters

### Natural Resources and Agriscience Biology

*Prerequisite: None*

This yearlong class can be taken instead of Biology (311) to meet state biological sciences graduation credit requirements. It is the preferred class to be taken first in the sequence of natural resource & agriscience courses offered. 816 Botany and 825 Zoology build upon the basic concepts and skills taught in 352 Biology. This course uses a real life, hands-on approach to teach the chemical, physical, and biological relationships of food, plants, animals, and the soil. It includes instruction in the growth and behavior of crops, the development of new plant varieties, and the scientific management of soils and nutrients for maximum plant growth, health, and productivity. It also focuses on the scientific principles that underlie the breeding and husbandry of domesticated animals. It includes instruction in genetics, nutrition, reproduction, husbandry, and the growth and development of domesticated animals. Membership and participation in activities of the National FFA Student Organization, leadership, communication, teamwork skills, and other personal development skills, are part of all natural resources & agriscience classes.

## 354 Microbiology: 1 Trimester

*Prerequisites: Biology; Physical Science A or Chemistry*

This course is an overview of the microbial world including a survey of the structure, functioning, and diversity of microorganisms. It introduces the fundamental concepts of microbial physiology, ecology, genetics, and pathogenesis. The course includes microbiological laboratory procedures including sterile technique, microscopy, enrichment and isolation, preservation and experience in the cultivation of microorganisms. Microbe-related topics include disease, bioterrorism, food, biotechnology, and ecology. It also examines the nature of scientific inquiry, along with major biological concepts.

### 816 Botany-Plant Systems-Horticulture Science: 3 Trimesters

*Prerequisites: Agriscience Biology Preferred or option of completion of Biology*

This year-long course is for students considering a green industry career as a florist, greenhouse manager, alternative energy engineer, urban forester, sports field manager, golf course superintendent, nursery manager, landscape architect, designer, contractor, botanist, horticulturist, soil conservationist, farm manager or other careers working with and caring for crops or plants in the future. This course will provide students with a foundation in botanical studies in agricultural crops, horticultural plants and forestry. Topics include classification, selection, anatomy, physiology, genetics, breeding, nutrition, health, judging of plants and plant products, fundamentals of soil science, hydroponics, plant pests, meeting human needs with plants and their importance to the Michigan economy. In addition, an introduction to alternative energy systems in bio-fuels, methane/natural gas, solar, wind, wave, fuel cell technology, landscape design, construction, supplies, equipment, management and safety are covered. Students care for plants in the hydroponic lab, school greenhouse, outdoors on the school landscape, crop and sports fields, forest, and wetlands areas. This course can be retaken as an advanced Ag Projects independent research class during the same time slot after the Zoology course segment is completed or taken concurrently. Membership and participation in activities of the National FFA Student Organization, leadership, communication, teamwork skills, and other personal development skills, are part of all natural resources & agriscience classes.

### 825 Zoology-Animal Systems-Pre-Veterinary Science: 3 Trimesters

*Prerequisite: Agriscience Biology Preferred or option of completion of Biology*

This advanced year-long course is for students considering an animal industry career as a veterinarian, vet technician, horse trainer, animal groomer, pet store manager, game warden, rancher, farm manager or other careers working with and caring for farm or companion animals in the future. This course will provide students with a foundation in pre-veterinary zoology studies in the animal species of livestock (food animals) and companion animals (horses, dogs, cats). Topics include classification, selection, anatomy, physiology, genetics, breeding, behavior, nutrition, health, judging and showing of animals and animal products, grooming, aquaculture, habitat management, wildlife conservation and the importance of hunting, trapping and fishing to the Michigan economy. Students grow broiler chickens and fish in the lab, do outdoor studies of the habitat of animal species in the forest, field and wetland areas of the school campus. This course can be retaken as an advanced Ag Projects independent research class during the same time slot after the Botany Course segment has been completed or taken concurrently. Membership and participation in activities of the National FFA Student Organization, leadership, communication, teamwork skills, and other personal development skills, are part of all natural resources & agriscience classes.

### 358 Environmental Science: 1 Trimester

*Prerequisites: Biology (A and B); Chemistry or Physical Science*

The goal of survey course is to give students an introduction to the environmental issues we are facing today. This course will provide an introduction to the inter-relationships of the natural world, to identify environmental problems both natural and human-made, to evaluate risks associated with these problems, and to examine solutions for resolving/preventing them. We will be looking at Human Population, Water/Air Quality, Waste Management, Energy Use and Alternatives, and Climate Change. We will also focus on current local, national and international environmental issues that may come up during the class.

### 875 Senior Capstone Experience: 3 Trimesters

*Prerequisite: Grade 12; a minimum GPA of 3.0; Application acceptance*

Senior Capstone Experience (SCE) is a year-long interdisciplinary course. Two main components of the course are project based learning and community service. The course is centered on one guiding question: What are a student's local, state, national, and world responsibilities? The purpose of the course is for seniors to synthesize areas of future study in light of the local and global community. Upon completion, students will receive .5 credits in English, Science and Social Studies.

### 410 World History: 2 Trimesters

*Prerequisite: Grade 9; Required for Graduation*

Every people, every city, and every nation has its own distinctive history of politics and war, religion and art, triumph and tragedy. The study of world history reveals this diversity and the unifying elements of the human experience. Students will study the origins and development of the world's major civilizations, both Western and Eastern. Students will use and develop critical thinking skills to make objective judgments of historical and contemporary issues. Students will gain a global perspective on forces and movements that have made the past relevant to the present.

### 417 AP U.S. History: 3 Trimesters

*Prerequisite: World History; Grades 10-12*

This course is designed for sophomores who have excelled in their social science and English classes. It is a college level history class that will prepare the student to take the three hour standardized exam given by the College Board in May. The first trimester begins with the pre-Columbian era through the antebellum era. The second trimester picks up with the Civil War and ends with post World War I. The third trimester covers from World War II until present day. Students should be prepared to move at a rapid pace so that all course material is covered prior to the exam. Excellent reading and writing skills are essential for one's success in this class. Essays and responses to document based questions are written throughout the year. Students are required to sign up for the entire year. Knowing that this is likely the first AP class that a student will take, the class is taught in such a way as to assure student success. Time is spent on how to study and how to successfully meet the challenges of a class of this nature. The course is formatted to incorporate the twelve themes and the topical outline developed by the College Board.

### 422 U.S. History: 2 Trimesters

*Prerequisite: World History, Grade 10; Required for Graduation or AP US History*

This course, required of all tenth graders, will cover post-Reconstruction U.S. history and is based on the standards and benchmarks accepted by the Michigan State Board of Education. Students will learn and acquire many skills in the four social studies areas of history, economics, civics, and geography as they relate to the growth and development of the United States. AP U.S. History may be substituted for this course.

### 440 Approaching Asia: 1 Trimester

*Prerequisite: World History*

This course will focus on the history, geography, religion, and society of Japan, China, and Korea. The study of these countries will be approached through experiences with art, music, literature, film, language, food, and popular culture. This course will also explore the emergence of East Asia as a major economic and cultural center in the late 20th and early 21st centuries.

### 441 History of American Society and Pop Culture: 1 Trimester

*Prerequisite: Grades 10-12*

Students will think about the various forms of media and entertainment they enjoy--sports, music, television, movies, and reading-- to understand how and why they were invented and what larger influence they represent. Many times we see that America is defined by its popular culture. For better or for worse, one of our biggest exports to the world is and has been our entertainment, culture and fads. Popular culture in America will be dissected to examine if, when and how it acts as a mirror on our society.

### 442 AP Economics: 3 Trimesters

*Prerequisite: Grades 11-12*

This year-long course is broken into three distinct segments and will give students college level experience in both Micro and Macroeconomics. The first trimester will consist of a thorough study of individual decision makers, both producers and consumers, within economic systems (Microeconomics). The second trimester shifts to the study of the intricacies of the US economic system as a whole and how we compare to nations in the rest of the world (Macroeconomics). Next, the third trimester will begin with preparation for two separate AP exams, as students can potentially get college credit for both Micro and Macroeconomics. Finally, through the use of economic skills that we obtain throughout the year, the last trimester concludes with community service and public policy projects within the Saline community. Students taking this course should be strong in mathematics and/or logical reasoning

### 443 World Affairs: 1 Trimester

*Prerequisite: Grades 11-12*

Students enrolled in this course will trace the development of Modern Africa and the Middle East from the last part of 19th century through to the present day. A significant portion of the course will involve a collaborative and thorough examination of the various crises, conflicts and challenges that confront the people of these very dynamic regions.

### 444 Economics: 1 Trimester

*Prerequisite: US History or AP US History; Required for Graduation*

This required course surveys the most significant concepts in the United States' capitalist economy. From the big picture or macroeconomic perspective, students will study government regulations and taxes, inflation, money and banking, the stock market and international trade. On the smaller or microeconomic scale, students will consider individual business decisions, entrepreneurship, personal savings and investments, and consumer preferences. Projects and simulations will be incorporated to enhance the practical understanding of these concepts in order to better prepare students for the real world.

### 445 US Government: 1 Trimester

*Prerequisite: US History or AP US History; Required for Graduation or AP US Gov't*

US Government deals with the institutions, processes and the people that make up the governmental systems of the United States on all levels—local, county, state and federal. The focus of the course will be the Constitution, the political process, and the three branches of the federal government. Interaction between contemporary issues of importance and our governmental institutions will be studied. The rights and responsibilities of all citizens, as well as their active involvement in government, will be stressed.

### 450 AP Psychology: 3 Trimesters

*Prerequisite: Grades 11 – 12*

Students will be introduced to the systematic and scientific study of the behavior and mental processes of human beings and other animals. They will be exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology using scientific research methods. It is the aim of AP Psychology to provide a learning experience equivalent to that obtained in a college level introductory psychology course.

### 452 AP US Government: 3 Trimesters

*Prerequisite: US History or AP US History*

This course is an in-depth study of US Government and our political system at the local, state, national and international levels. Students will study with an analytical perspective and will explore specific historical examples combined with general concepts in great detail. The course also provides and requires a familiarity with the various institutions, groups, beliefs and ideas that constitute US politics. Students will be exposed to a variety of theoretical perspectives and explanations for policies, behaviors and outcomes. Students should expect a rigorous writing and reading workload. Students will be expected to take the AP US Government & Politics Exam in May. Success on this College Board Exam will result in college credit in Political Science.

### 453 AP Comparative Government: 2 Trimesters

*Prerequisite: AP US Government & Politics or US Government (Course offered in 1st and 2nd Trimesters only)*

AP Comparative Government introduces students to some of the main concepts used by political scientists to study the processes and outcomes of politics in six interesting and very different nations: Great Britain, Russia, China, Nigeria, Mexico and Iran. By comparing these governments and their political structures, we learn about the effectiveness of governmental policies that countries use to address problems. Students will apply the following content areas to each of the nations listed above: A. Sovereignty, Authority and Power B. Political Institutions C. Citizens, Society and the State D. Political and Economic Change and E. Public Policy. Students should expect a rigorous writing and reading workload. Students will be expected to take the AP Comparative Government Exam in May. Success on this College Board Exam will result in college credit in Political Science.

### 455 Criminal Law: 1 Trimester

*Prerequisite: U.S. Government or A.P. U.S. Government*

Students who enroll in this course will gain a greater procedural knowledge of the criminal aspect of the American legal system. Focus will be placed in areas such as homicide, property crimes, organized crime and the criminal justice system. One of the highlights of this class is the mock trial experience where students will prepare all of the elements of a case and present their arguments in a courtroom setting.

### 456 Civil Law: 1 Trimester

*Prerequisite: U.S. Government or A.P. U.S. Government*

This course will offer practical experience and topics in various areas of the law as they pertain to the students' lives. Students who enroll in this class will gain a greater procedural knowledge of the civil (non-criminal) aspect of the American legal system, as well as the practical tools necessary to accept the challenges they will face throughout their lives. Topics will include the McDonald's Coffee case, personal injury law and what it takes to get into law school. One of the highlights of this class is the mock trial experience where students will prepare all of the elements of a case and present their arguments in a courtroom setting.

### 458 Russian History: 1 Trimester

*Prerequisite: US History or AP US History*

This course offers a look into the history and culture of one of the world's most politically volatile countries. The class is taught chronologically and focuses on the history of Russia beginning with the 9th Century and proceeding through the Second World War. A main emphasis of the class is the 20th Century rise of communism, culminating in the Revolution of 1917, a key turning point in the world's history. Additionally, Russian art, music, literature and basic language skills are introduced. This class is recommended to students who enjoy reading and studying history, particularly history of a unique and unfamiliar nation.

### 460 World Religions: 1 Trimester

*Prerequisite: Grades 10-12*

This elective course is a comparative study of religions in the world today, with a special focus on the following five: Buddhism, Christianity, Hinduism, Islam and Judaism. Students will compare and contrast religious beliefs from numerous angles including history, geography, culture, scripture and practice. Through our study, we will discuss what "religion" means for individuals and societies today, as well as research how beliefs and practices have evolved over time. The preeminent goal of the course is that students will gain a greater understanding and respect for the similarities and differences of spiritual beliefs among fellow human beings.

### 461 Ancient Civilizations: Greece & Rome 1 Trimester

*Prerequisite: Grades 11-12*

Classical Civilizations is a course designed to give students an understanding and knowledge of the accomplishments of past civilizations. This course will examine key individuals and the beliefs and values of Greek and Roman civilizations. Topics will include achievements in areas such as art, architecture, philosophy, religion, technology, and history.

### 462 Psychology I: 1 Trimester

*Prerequisite: Grades 11-12*

According to the National Standards for High School Psychology Curricula, students will engage in the scientific study of Psychology in order to gain an understanding of the complexities of human thought and behavior, as well as the factors related to the differences between people. Students also gain a basic understanding of the scientific methods that are at the core of the discipline. Students are then able to directly apply knowledge gained from Psychology to their daily lives. Overview of topics: History and perspectives, Biological bases of behavior, Sensation and Perception, Consciousness, Psychological disorders and Adolescent Development

### 463 Psychology II: 1 Trimester

*Prerequisite: Psychology I; Grades 11-12*

This course constitutes the second half of the National Standards for High School Psychology Curricula. Overview of topics: Research Strategies and Statistics, Motivation and Emotion, Personality, Learning and Memory, Intelligence and Social Psychology.

### 464 Developmental Psychology: 1 Trimester

*Prerequisite: Grades 11-12*

This course provides an overview of the field of developmental psychology, including its history, research methodologies, theories, and applications. Specific topics include the biological bases of development, parent-infant attachment, the development of sensation and perception, cognition and linguistic development, emotional development, moral development, stereotype development, childhood and adolescent psychopathology and its development. Content is presented through a combination of lectures, readings, activities, and demonstrations.

### 467 Sociology: 1 Trimester

*Prerequisite: Grades 11-12*

This course will offer students a unique and engaging exploration of social life, including all forms of social interaction and relationships. Students will learn concepts, theories and research methods that will enable them to understand and appreciate their lives and the larger social world. This course will provide a framework for exploring society and its influence on human groups, including (but not limited to) issues of race, gender and class. Students can also expect particular emphasis on the study of sport as a cultural phenomenon to better understand and explore social issues. Class content is delivered through a combination of presentations, reading, activities, film and a class field trip to the University of Michigan campus

### 468 Sports Sociology: 1 Trimester

*Prerequisite: Grades 9-10*

This course will offer students a unique and engaging exploration of the union of sport and society. Students will learn concepts, theories and research methods that will enable them to understand sport's influence on their lives and the larger social world. Four areas of emphasis for this course include: sport's impact on cultural values and norms; sport's influence on constructions of masculinity and femininity; sport's impact on social inequality, social mobility and social justice; and, sport's ability to influence the media, politics, economics, religion, race, sexuality, youth and family dynamics. Course content is delivered through a combination of class discussion, presentations, reading, activities, film and a field trip to the University of Michigan campus to reinforce concepts from class.

### 875 Senior Capstone Experience: 3 Trimesters

*Prerequisite: Grade 12; a minimum GPA of 3.0; Application acceptance*

Senior Capstone Experience (SCE) is a year-long interdisciplinary course. Two main components of the course are project based learning and community service. The course is centered on one guiding question: What are a student's local, state, national, and world responsibilities? The purpose of the course is for seniors to synthesize areas of future study in light of the local and global community. Upon completion, students will receive .5 credits in English, Science and Social Studies.

***Many Additional Technology Education courses can be found under the Career and Technology Ed portion of this Course Book***

### 913 PLTW: Intro to Engineering Design (IED): 2 Trimesters

*Prerequisite: Grades 9- 10*

The major focus of the IED course is to expose students to the design process, most notably through computer aided drafting and design and technical documentation. Students will also engage in and learn about research and analysis, teamwork, communication methods, engineering standards, and geometric dimensioning and tolerances. Students will use 2D and 3D solid modeling software to learn to reverse engineer, as well as develop solutions to proposed problems, while learning how to document their work and communicate solutions to peers and members of the professional community.

### 914 PLTW: Principles of Engineering (POE): 2 Trimesters

*Prerequisite: Intro to Engineering Design (IED)*

The major focus of the POE course is to expose students to the major concepts that they will encounter in a postsecondary engineering course of study. Topics include simple and advanced machines, potential and kinetic energies, statics and stress analysis, material physics, and kinematics. Students will design projects using AutoDesk Inventor software, build projects using Fishertechnik kits, engage in problem solving activities, explore engineering careers, and learn how to properly log and present their documentation. Students will also expand their knowledge of technical documentation and communication of their findings to peers and members of the professional community. This course is designed for 10th or 11th grade students.

### 915 PLTW - Digital Electronics: 2 Trimesters

*Prerequisite: Intro to Engineering Design (IED) and Principles of Engineering (POE)*

From smartphones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry including logic gates, integrated circuits, and programmable logic devices.

### 917 PLTW - Computer Integrated Manufacturing (CIM) *formerly Advanced Manufacturing:* 3 Trimesters

*Prerequisite: Intro to Engineering Design (IED) and Principles of Engineering (POE)*

This program offers training in multiple methods of manufacturing, and can be used for Project Lead the Way credit. Students will learn how to manufacture products using manual mills and lathes, computer numerical control (CNC) mills and lathe machines, as well as rapid prototyping on a 3D printer. Students will learn to use problem solving skills to create models using AutoDesk (AutoCAD and Inventor) software, create toolpath programs/code using MasterCAM software, and master machining skills as they relate to manual machining, CNC machining, and 3D printing. The course will also stress the importance of shop safety, the design process in regards to engineering, blueprint reading, and measurement with precision tools. Enrolled students will have the opportunity to compete at SkillsUSA and MITES competitions. This course will prepare students for manufacturing curriculum at the post-secondary level, and articulation agreements exist that allow college credits to be earned at certain colleges and universities. Students completing the course may find entry level employment in the fields of machining/programming and engineering technology. *Articulation is available with Washtenaw Community College.*

### 918 PLTW - Principles of Biomedical Science (PBS) 2 Trimesters

*Prerequisite: Biology or currently taking.*

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

### 919 PLTW – Human Body Systems (HBS) 2 Trimesters

*Prerequisite: Biology A & B*

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

### 916 PLTW/AP Computer Science Principles: 2 Trimesters

*Prerequisite: Intro to Engineering Design (IED) and Principles of Engineering (POE)*

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. CSE helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. This course aligns with the AP Computer Science Principles. Thus, students who take this course will have an opportunity (if they choose) to take the AP Computer Science Principles exam in the Spring to potentially receive AP credit.

### 958 Intro to Computer Aided Drafting (CAD): 1 Trimester

*Prerequisite: None*

This class focuses on teaching students the fundamentals of drafting through CAD software. Students will learn to use the most current AutoDesk software available, most notably AutoCAD and Inventor, to design models and draft blueprints. Students will engage in the reproduction and/or creation of geometric constructions, orthographic projections, isometric views, and 3D solid modeling. Emphasis will be placed upon the proper use of geometric dimensioning and tolerances (GD&T) while students are producing technical documentation. Upon completion, students will be able to create blueprints in both AutoCAD and Inventor that could be used to manufacture parts.

### 960 Introduction to Technology: 1 Trimester

*Prerequisite: None*

Students will reinforce their scientific, mathematical, and communication skills through class activities using the engineering problem solving method. Additionally, experiences in the class are designed to meet the state educational requirements and benchmarks for the online learning experience, and the State of Michigan Technology requirement. This project based, hands-on course will allow students to explore topics in areas such as alternative energy, fiber optics and lasers, robotics, and computer aided design. This curriculum promotes technological literacy, problem-solving, critical-thinking, systems thinking, and teamwork. College bound students as well as students pursuing a technical career will find this course challenging and exciting.

### 962 Problems in Technology: 1 Trimester

*Prerequisite: Introduction to Technology or Permission of Instructor*

This course is a more intense exploration into the systems approach to the study of technology. Students will solve both individual and collaborative team engineering problems in the areas of: 1. Physical technology, 2. Informational technology, 3. Bio/ chem related technologies. Rigorous applications of science, mathematics, and communication skills will be required during laboratory activities involving such topics as CAD, (computer aided design), multi-media, transportation, pneumatics, aerodynamics, research and development, etc. This class is an excellent elective for the college-bound student.

### 964 Engineering in Technology: 1 Trimester

*Prerequisite: Problems in Technology or Permission of Instructor*

Students will select a topic dealing with any segment of technology (physical, informational, or bio-related) and pursue a guided, in-depth study of that topic. Research methods will involve traditional means as well as high tech methods (i.e. telecommunications, Internet, multi-media). Students will be encouraged to work directly with personnel from high technology businesses and universities in the course of their investigations. This class is an excellent elective for the college-bound student.

### 968 Advanced CAD & 3D Modeling I: 1 Trimester

*Prerequisite: Intro to Computer Aided Drafting (CAD) or permission of instructor*

This class focuses on teaching students the advanced drafting techniques while they learn to use the most current AutoDesk CAD software available, most notably AutoCAD and Inventor. Students gain a deeper knowledge of geometric construction, orthographic projection, isometric modeling, and 3D solid modeling, while learning new techniques such as section views, auxiliary views, wireframe modeling, assemblies, presentations, and animations. Upon completion, students will be able to create a set of working drawings that could be used to manufacture and assemble advanced parts.

### 970 Advanced CAD & 3D Modeling II: 1 Trimester

*Prerequisite: Advanced CAD & 3D Modeling I*

This class will be a continuation of Advanced CAD 1, and will focus on mastery of drafting techniques while they learn to use the most current AutoDesk CAD software available, most notably AutoCAD and Inventor. Students will master geometric construction, orthographic projection, isometric modeling, 3D solid modeling, section views, auxiliary views, wireframe modeling, assemblies, presentations, and animations. Upon completion, students will be able to create a set of working drawings that could be used to manufacture and assemble advanced parts, as well as create photo-realistic renderings.

### 972 Architectural CAD I: 1 Trimester

*Prerequisite: None*

This class focuses on teaching students the fundamentals of architectural drafting while they learn to use the most current AutoDesk CAD software available, most notably AutoCAD Architecture and Revit. After the fundamentals are covered, students will move on to create floor plans, elevations, and foam core or balsa wood model homes. Upon completion, students will be able to create blueprints that could be used to construct a home.

### 973 Architectural CAD II: 1 Trimester

*Prerequisite: Architectural CAD I or Permission of Instructor*

This class is a continuation of Architectural CAD 1, and focuses mastery of the fundamentals of architectural drafting while they learn to use the most current AutoDesk CAD software available, most notably AutoCAD and Revit. After mastery is reached regarding floor plans and elevations, students will move on to create site and plot plans, electrical and plumbing plans, foundation drawings, section views, and advanced model construction. Upon completion, students will be able to create blueprints and layouts that could be legally be used to determine the site, install electrical and plumbing, and construct a home.

### 975 Autotronics: 1 Trimester

*Prerequisite: Completion of Driver's Education Part 1*

Plan on driving soon? If so, Autotronics is a driver's necessity. This is a unique life skill program designed to offer students an opportunity to learn basic automotive repair skills on their own vehicles. Topics include basic engine design, vehicle safety inspection, lubrication system, basic electrical systems and information relating to consumer legislation (P.A. 300 and Lemon Law) pertaining to vehicle repair, service, and alternatives.

### 976 Engine Fundamentals: 1 Trimester

*Prerequisite: None*

Students with no prior experience with engines will have the opportunity to disassemble an entire gasoline engine. After disassembly of the engine, the components are measured then reassembled. Upon completion of this project the engine will be tested on a live engine test stand. The course content includes topics in lab safety, basic engine design, micrometer usage, engine related math, engine mechanical testing, engine disassembly and reassembly, and an overview of the lubrication, ignition and cooling systems.

### 978 Electronics I: 1 Trimester

*Prerequisite: None*

This course is designed to introduce students to today's high-tech electronics. Each student works through a basic core program of electronics that includes basic circuit and semiconductor concepts. Students also learn how to operate AC/DC power supplies and electronic test equipment, including digital multi-meters. Hands-on activities will be emphasized during the course. Examples may include; circuit building, soldering, and the building of a DC motor. Technical problem-solving, teamwork, and critical thinking skills will be emphasized.

### 979 Electronics II: 1 Trimester

*Prerequisite: Electronics I*

This course is designed to introduce students to today's high-tech electronics. The course emphasizes hands-on electronics skills. Each student will continue developing the skills learned in Electronics I through a core program of electronics that includes DC circuits, semiconductor concepts, logic gates, numbering systems, open source prototyping, and microcontrollers. Several hands-on activities will be completed during the course. Examples may include; circuit building, microcontroller applications, soldering, robotics, troubleshooting strategies, and digital electronics. Technical problem solving, teamwork, and critical thinking skills will be emphasized.

### 982 Metals I: 1 Trimester

*Prerequisite: None*

This course is open to any student interested in metalworking and the world of manufacturing. The history of technology and world of manufacturing will be explored by studying a variety of metalworking technologies. Students will be introduced to the use and application of basic hand tools and power tools as well as modern manufacturing equipment while constructing projects made from metal. Tools and equipment such as grinders, hammers, saws, shears, drills, lathes, mills, surface grinders, oxy-fuel cutting, oxyacetylene welding, shielded metal arc welding, gas metal arc welding, PlasmaCAD/CAM, Plasma Arc Cutting , and more will be experienced through various stages of the manufacturing process. Safe operation and conduct is required at all times.

### 983 Metals II: 1 Trimester

*Prerequisite: Grade of C or better in Metals I*

Metals II is open to students who want to expand their knowledge in metalworking and related manufacturing technologies. Students will be exposed to advanced techniques and will build upon the skill foundation started in Metals I with both machining and welding applications. Equipment maintenance and repair will also be introduced as need arises in normal shop operation. Students are encouraged to be creative and explore all aspects of manufacturing in preparation for career exploration.

### 984 Metals III: 1 Trimester

*Prerequisite: Grade of C or better in Metals II*

Metals III is for students who are serious about manufacturing and have an idea of a project they would like to construct using the equipment available. Students will be introduced to a design process and will be encouraged to design and produce products of their own. Some material expenses may arise depending on individual project goals. Gas tungsten arc welding will be introduced for advanced welding procedures. This class will also prepare students for entrance to the Career and Technical Education classes offered through the South and West Washtenaw Consortium such as Metal Processing and Welding Technologies and Advanced Manufacturing, which are eligible for articulation credits to participating colleges.

### 986 Graphic Communications: 1 Trimesters

*Prerequisite: None*

This course focuses on the design and production of media. This class will focus on two major types of media: print media and electronic media. Print media refers to such things as posters, CD covers, business cards, T-shirts, etc. Electronic media refers to such things as digital video and web animation. What's common between print media and electronic media can be summed up this way: it's all digital. This course is a hands-on class in which you learn about each stage of the media production process and then use the tools you learned about to complete various media production projects and assignments.

### 987 Advanced Graphic Communications: 1 Trimester

*Prerequisite: Graphic Communications*

Advanced Graphic Communications is a hands-on class in which students build on the skills learned in Graphic Communications. With this knowledge students are able to complete more challenging projects and assignments. There are four areas of concentration which assignments and projects will focus on: Multi-color Screen Printing, Multi-color Offset Printing, Advanced Photoshop Techniques, and Digital Video and Web animation.

### 988 Photography: 1 Trimester

*Prerequisite: None*

The fundamentals of black + white photography are introduced through the construction and use of a "pinhole camera". Students will also learn how to use a 35mm SLR camera and how to develop film and print black-and-white photos. Picture design and photo presentation techniques are also covered. Students are encouraged to use their own 35mm SLR camera.

### 989 Digital Photography: 1 Trimester

*Prerequisite: None*

The evolution from film to digital is over, and digital photography is here to stay. This course introduces students to the process of creating "pixel-based" photography. Upon completion of the Digital Photography class, students will have a greater understanding of the technology in a digital camera, shot composition, digital photo editing techniques, online gallery creation, photo critiquing techniques and digital printing. Students will submit the majority of their assignments using the web as the digital medium to display their photos, as well as create a DVD portfolio. Take your photography skills to the next level, join Digital Photography.

### 985 Digital Photography II: 1 Trimester

*Prerequisite: Digital Photography I*

Upon completion of the Digital Photography I class, students are eligible to take Digital Photography II. This course is the second in the digital photography course series. Students will work to develop a greater understanding of the digital camera and manual settings. Shot composition, advanced digital photo editing techniques using Adobe Photoshop, and digital printing will be covered while continuing to develop the photographer's eye. Students will create a digital portfolio and online presence that will help them find entry level job positions in the photography industry.

### 932 Video Production I: 1 Trimester

*Prerequisite: None*

Digital video media is EVERYWHERE. Movies, television, video kiosks, Pod casts, web videos and commercials surround us every day. They are all products of planning, production, and editing in this media-crazed society. Video Production 1 gives students a detailed "behind-the-scenes" look at what goes into creating these media presentations. In addition to learning the special techniques in operating a video camera, students will also develop skills in producing and editing videos. The class begins with instruction in caring for, handling, and operating video equipment and general concepts of videography. Topics and skills for video production include scripting, storyboarding, framing, lighting, and audio techniques. As the course continues, students develop increasingly advanced skills, such as lighting and audio. Students will use professional level editing equipment, digital camcorders, computers and digital editing software Adobe Premiere Pro.

### 933 Video Production II: 1 Trimester

*Prerequisite: Video Production I*

Video Production II is designed to develop and expand skills learned in Video Production I. More in-depth study of storyboarding, shot lists, scriptwriting, videography, lighting, audio, and more advanced production techniques are covered. In addition, students learn advanced editing techniques using the Adobe Creative Suite software package and expand upon skills acquired in Video Production I. Students study and develop skills in system configuration and language, rough cut editing, editing for effect, match frame editing, printing to video/multimedia or web, Pod casting and DVD development. A combination of lecture, tutorials and hands-on experiences are combined to develop these advanced skills. Students will also have the opportunity to participate in, and produce, special projects and event coverage for the school. These productions will be broadcast to the community through the use of the Saline Community Television Network channel 18 or over the web in online video communities. The end result of this class is that students will develop a digital-multimedia portfolio that can be used post high school.

### 111 French I: 2 Trimesters

*Prerequisite: None*

French I introduces students to the four major language skills: listening, speaking, writing, and reading. During the first three weeks, students concentrate on conversation skills. Students receive a French name and learn to count, to greet friends, and to tell time. This course continues with a grammatical approach to the language. Students will have vocabulary and verb study, oral drills, practice in sentence structure, translation, and short cultural readings. The instructor will speak as much French in class as the level of the students' proficiency will allow.

### 113 Spanish I: 2 Trimesters

*Prerequisite: None*

Spanish I introduces students to the four major language skills: listening, speaking, writing, and reading. The course begins with conversation work in which students receive new names in Spanish and learn such things as how to greet friends, how to count and how to tell time. Other course work involves vocabulary study, oral drills, grammar and sentence structure exercises, translation, and short cultural readings. Spanish songs and games are occasionally used to improve pronunciation and to build vocabulary.

### 117 German I: 2 Trimesters

*Prerequisite: None*

German 1 introduces students to the four major language skills: listening, speaking, writing and reading. At first students receive German names, learn basic skills such as greeting friends, counting and spelling in German. Students are then introduced to basic vocabulary, elementary grammar and sentence structure. Various exercise drills, songs, games and short narrative sketches are used.

### 122 French II: 2 Trimesters

*Prerequisite: French I*

This course begins with a review of French I and continues the development of the basic foreign language skills. In addition, students are exposed to cultural reading materials to which they can respond both orally and in writing. Grammatical structures are patterned through a variety of oral exercises interspersed with written practices. Students are encouraged to converse with their instructor and fellow students in French.

### 124 Spanish II: 2 Trimesters

*Prerequisite: Spanish I*

Spanish II continues to develop proficiency in the four major language skills. Basic vocabulary, grammar, verb tenses, and sentence structures from Spanish I are reviewed, and new tenses and structures are added. Students will also write and enact original dialogues based on practical conversational vocabulary. More readings are included for cultural enrichment and reading comprehension. Songs and games are again used to improve pronunciation and build vocabulary.

### 125 Spanish II Culture: 2 Trimesters

*Prerequisite: Spanish I*

Spanish II Culture continues to develop proficiency in the four major language skills. Basic vocabulary, grammar, verb tenses, and sentence structures from Spanish I are reviewed, and select tenses and structures are added. Students will explore the geography, history, and current events in select Spanish-speaking countries. Students will participate in project-based learning, partner work, and presentations. This course does not meet the prerequisites for Spanish III.

### 126 Spanish II Honors: 2 Trimesters

*Prerequisite: Spanish I*

Spanish II Honors continues to develop proficiency in the four major language skills. Basic vocabulary, grammar, verb tenses, and sentence structures from Spanish I are reviewed, and advanced tenses and structures are added. Students will also write and enact original dialogues based on practical conversational vocabulary. More readings are included for cultural enrichment and reading comprehension. Students in Spanish II Honors will work at a faster pace and cover more curriculum than other Spanish II courses. Completion of Spanish II Honors will place students directly into Spanish IIIB (skipping over Spanish IIIA).

### 127 German II: 2 Trimesters

*Prerequisite: German I*

This course begins with a review of German I and continues the development of the basic foreign language skills through a variety of exercises, drills, cued responses, etc. In addition, students are exposed to cultural reading materials to which they respond both orally and in writing. Grammatical structures are patterned through a variety of oral exercises interspersed with written practices. Students are encouraged to converse with their instructor and fellow students in German.

### 133 French III: 2 Trimesters

*Prerequisite: French II*

French III students continue the study of the four major language skills at a more advanced level. Grammar from French I and II is reviewed briefly, and students learn some finer points of French grammar. An emphasis is placed on reading, writing and speaking. Additional information is presented on topics such as French art, history, and culture.

### 135 Spanish III: 2 Trimesters

*Prerequisite: Spanish II or Spanish II Honors*

Spanish III students continue the study of the four major language skills at a more advanced level. Vocabulary, grammar, verb tenses, and sentence structures from Spanish II are reviewed and new verb tenses and structures are added. Students will read stories and a short novel throughout the year, and will continue to write and enact original dialogues based on practical conversational vocabulary, art, history, and literature.

### 137 German III: 2 Trimesters

*Prerequisite: German II*

This course begins with a thorough review of German II and then seeks to combine and develop the earlier acquired skills into various levels of conversation and composition through a variety of scenes from everyday life. Class work will be alternated and supplemented by readings from various German texts, magazines, and periodicals that deal with topics in the areas of politics, history, art, science, literature, and current events. Class activities will be conducted in the target language as much as possible.

### 144 French IV: 2 Trimesters

*Prerequisite: French III*

This course continues the study of the four major language skills at a more advanced level, with an emphasis on speaking, writing, and literature. The students will read literature and other reading selections by well known Francophone authors especially adapted to the intermediate level, including short stories, poetry, and songs. These materials will reflect the culture and history of the target language.

### 146 Spanish IV: 2 Trimesters

*Prerequisite: Spanish III*

This course continues the study of the four major language skills at a more advanced level, with an emphasis on speaking and reading. Students will read literature and other selections by well known Spanish and Latin American authors especially adapted to the intermediate level, including short stories, poetry, and songs. These materials will reflect the culture and history of the target language.

### 147 German IV: 2 Trimesters

*Prerequisite: German III*

This class continues the study of the four major language skills at a more advanced level and reviews general grammar concepts. Class activities will be conducted in German. The students will read, discuss and write about selections taken from German literature, history, art, and current events.

### 152 French V (possibility of Dual Enrollment credit): 3 Trimesters

*Prerequisite: French IV*

This course will continue with a review of grammar and the study of literature of Francophone authors at a more advanced level. Different cultural topics will be studied, including social, religious, and political issues affecting French-speaking countries. There will be more emphasis on oral communication and creative writing at advanced levels. There is a possibility of earning dual enrollment credit with Eastern Michigan University on Saline High School campus.

### 153 AP Spanish: 3 Trimesters

*Prerequisite: Spanish IV*

Advanced Placement Spanish helps to prepare students to take the Advanced Placement test in May. The Advanced Placement Spanish Language course is designed for students to develop a strong command of the Spanish language through the integration of language skills as well as synthesizing written and oral materials within the target language. This course teaches more advanced grammatical structures. It will be taught entirely in Spanish. Like all AP courses, this is a college-level experience for those who want to be both fluent and take the test for college credit. Students may take the AP Spanish exam offered in May. Students performing well on this exam may be eligible for college credit.

### 155 Conversational Spanish: 1 Trimester

*Prerequisite: Spanish III*

This course concentrates on speaking and listening comprehension through structured individual, pair, small group, and whole-class work. Emphasis will be placed on vocabulary acquisition, real-life situations, and idiomatic expressions taking into account the culture of the target countries.

### 156 Conversational French: 1 Trimester

*Prerequisite: French II*

This course concentrates on speaking and listening comprehension through structured individual, pair, small group, and whole-class work. Emphasis will be placed on vocabulary acquisition, real-life situations, and idiomatic expressions taking into account the culture of the target countries.

### 157 Conversational German: 1 Trimester

*Prerequisite: German II*

This course concentrates on speaking and listening comprehension through structured individual, pair, small group, and whole-class work. Emphasis will be placed on vocabulary acquisition, real-life situations, and idiomatic expressions taking into account the culture of the target countries.

*The major purpose of the courses included in this section is to prepare the student with entry level and transferable skills and knowledge needed to obtain employment. The student's selection of a career and technical education course in no way would prevent him or her from furthering their education beyond high school. Additional program materials are available in the guidance office or from the instructors.*

*The courses are full-year courses, open primarily to juniors and seniors. Enrollments are limited; therefore, it is essential that students indicate their desires when considering their schedules for the fall. Interested students must complete an application form that can be acquired from the counselor or any career and technical education instructor. This application must be returned to the guidance office at the time of scheduling in order to be considered for the program. A committee will screen all applicants; if applications exceed the openings available, acceptance will be based upon career goals, attendance record, teacher recommendation, and graduation date plans. Priority will be given to seniors who will be in class the full year, juniors next, then seniors who anticipate mid-year graduation or reduced schedules. Students not electing the program by April cannot be guaranteed a slot in the program of their choice. When it is necessary to attend another school to enroll in the program, bus transportation is provided, with the exception of Cosmetology.*

***** ALL 2ND YEAR STUDENTS MUST HAVE INSTRUCTOR'S APPROVAL *****

### 506 Health Sciences Technology: 3 Trimesters

*Prerequisite: Grades 11-12*

Health Sciences Technology has been designed for students interested in all levels of health careers at the professional and paraprofessional levels. Areas of study include anatomy and physiology, disease process, medical ethics, communications, medical terminology, career exploration and trends in healthcare. Students will develop skills in CPR, vital signs, safety and patient care skills that apply to multiple health fields, such as nursing, medicine, physical therapy, x-ray tech and more. Students will gain practical experiences in hospitals, long-term health facilities and professional working environments of the health career being considered. College bound students considering a career in the health field would benefit greatly from this course by determining their interest and abilities and experiencing it first hand. Students who complete all the requirements are eligible to take the State of Michigan tests to become Certified Nursing Assistant (CNA). The CNA certificate is required for the WCC Nursing Program. Articulation is available with Washtenaw Community College and Ferris State University

### 509 Hospitality/Culinary Arts: 3 Trimesters

*Prerequisite: Grades 11-12*

This course is designed to introduce students to the hospitality industry, which includes Culinary Arts, Food Service, Hotel/Motel & Travel/Tourism, with a major focus on Culinary Arts. Students will learn and apply principles of safety, sanitation and food preparation. They will operate "The Hive", our student operated restaurant, as well as do catering and special projects. In addition, they will learn and practice employability skills, goal setting and problem solving. They will apply math and communication skills to work situations. Students will rotate through various kitchen stations including: broil cook, fry cook, pantry cook and prep cook. Students may take this class as a junior or senior or both. Students have the opportunity to earn a nationally recognized certificate through the National Restaurant Association with ServSafe and ProStart programs. Articulation (up to 9 credits) is available at Ferris State University, Grand Rapids Community College, Henry Ford Community College, Lake Michigan College, Michigan State University, Washtenaw Community College, West Shore Community College, The Art Institutes, Cornell University, the Culinary Institutes of America, Kendall College, New England Culinary Institutes, Johnson and Wales University, and other colleges and universities across the U.S.

### 543 Marketing I: 3 Trimesters

*Prerequisite: Grades 11-12*

This class is open to students interested in marketing, management or entrepreneurship. Students will learn vital skills necessary to be successful in any career they choose. The class focuses on marketing concepts, salesmanship, interviewing, merchandising, management, retailing, promotion and much more. Students will gain work experience in the school store, called "The Edge", which includes ordering, pricing, displaying and promoting products, as well as conducting market surveys. Each student will be given the opportunity to manage the store as a cashier or salesperson. The students will also be a part of the International Association of Marketing Students, called DECA. As members of DECA, students can compete in areas related to marketing, management and entrepreneurship at the district, state and/or international levels. DECA also offers opportunities for students to participate in the development of social intelligence, leadership and community service. Articulation is available with Washtenaw Community College.

### 544 Marketing II: 3 Trimesters 4th period

*Prerequisite: Marketing I; Grade 12*

Students that enroll in Marketing II are seniors who have successfully completed the Marketing I program as a junior. Marketing II students will mainly focus on the running of the school store. All concepts of marketing learned in the previous year will be employed. Tasks that will be re-learned and mastered are: knowing your target market, product selection for that market, pricing and financial reports involved in retailing, inventory management, promotions and advertising, selling techniques, customer service, and other skills needed to run a successful retail business. Other activities for

Marketing II students will include computer simulations to expose students to experiences beyond the school store and classroom, related field trips, and guest speakers. There will also be an opportunity for students to fully participate in the DECA competitions offered through the Marketing Program. Articulation is available with Washtenaw Community College.

### 816 Botany-Plant Systems-Horticulture Science: 3 Trimesters

*Prerequisites: Agriscience Biology Preferred or option of completion of Biology; Grades 11-12*

An introduction to landscape design, construction, supplies, equipment, management and safety are covered. Students care for plants in the hydroponic lab, school greenhouse and work outdoors in the areas of school landscape, crop, sports fields, forest and wetlands. This course will provide students with a foundation of botanical studies in agricultural crops, horticultural plants and forestry. Topics include classification, selection, anatomy, physiology, genetics, breeding, nutrition, health, judging of plants and plant products, fundamentals of soil science, hydroponics, plant pests, meeting human needs with plants and their importance to the Michigan economy. This course can be retaken as an Advanced Ag Project/Independent Research class during the same time slot. Natural resources, alternative energy systems in bio-fuels, methane/natural gas, solar, wind, wave and fuel cell technology will be introduced. Membership and participation in activities of the National FFA Student Organization, leadership, communication, teamwork skills, and other personal development skills are part of all natural resources & agriscience classes. Students apply hands-on skills outside of the classroom to work based and research type supervised career experience projects as part of their evaluation and grade. Students have the opportunity to compete, travel, win cash awards, recognition and scholarships in FFA.

### 825 Zoology-Animal Systems-Pre-Veterinary Science: 3 Trimesters

*Prerequisite: Agriscience Biology Preferred or option of completion of Biology*

This advanced year-long course is for students considering an animal industry career as a veterinarian, vet technician, horse trainer, animal groomer, pet store manager, game warden, rancher, farm manager or other careers working with and caring for farm or companion animals in the future. This course will provide students with a foundation in pre-veterinary zoology studies in the animal species of livestock (food animals) and companion animals (horses, dogs, cats). Topics include classification, selection, anatomy, physiology, genetics, breeding, behavior, nutrition, health, judging and showing of animals and animal products, grooming, aquaculture, habitat management, wildlife conservation and the importance of hunting, trapping and fishing to the Michigan economy. Students grow broiler chickens and fish in the lab, do outdoor studies of the habitat of animal species in the forest, field and wetland areas of the school campus. This course can be retaken as an Advanced Ag Projects/Independent Research class during the same time slot. Membership and participation in activities of the National FFA Student Organization, leadership, communication, teamwork skills, and other personal development skills, are part of all natural resources & agriscience classes. Students apply hands-on skills outside of the classroom to work based and research type supervised career experience projects as part of their evaluation and grade. Students have the opportunity to compete, travel, win cash awards, recognition and scholarships in FFA.

### 909 Cosmetology I: 3 Trimesters

*Prerequisite: Grades 11-12*

This program is open only to students who have made a serious commitment to become a professional Cosmetologist. Limited space will be available for seniors who are willing to commit to a year beyond graduation to complete the program. The Cosmetology program offered through the South and West Washtenaw Consortium prepares a student for employment in one of our nation's largest personal service industries. The Cosmetology program prepares a student with the entry level skills needed for employment in the beauty trades. Upon completion of the 1500 hours combined theory and clinical instruction the student will be qualified to take the Michigan State Board of Cosmetology exam. Class work includes the following areas of study: sanitation, bacteriology, cosmetology laws and rules, personal hygiene, hairshaping, hair dressing, fingerwaving, hair coloring, chemical reconstruction, applied anatomy, physiology and histology of the human head, hands, nails and skin, applied chemistry as related to skin, hair and nails, manicuring, facials, salon management and employability skills. Students must purchase required uniforms and arrange their own transportation to the West Ann Arbor location. There will be additional fees for students starting in their senior year. A counselor can provide further information and the required application forms. Articulation is available with Mott Community College.

### 910 Cosmetology II: 3 Trimesters + 6 Weeks during the summer

*Prerequisite: Cosmetology I; Grade 12*

### 924 Visual Imaging Technology: 3 Trimesters

*Prerequisite: Grades 11-12*

VIT is about the design and production of media. VIT focuses on two major types of media: print media and electronic media. Print media includes such things as posters, CD covers, business cards, t-shirts and many other products. Electronic media includes digital video and audio, digital photography, animation and flash applications for the Web. The common ground between print and electronic media is the digital experience. Given the dynamic nature and fluidity of the visual imaging industry, one of the primary goals of the class is to give students a broad range of experience which encompasses both print and electronic media. VIT is a hands-on class in which students learn about each stage of the media production process and then use those tools to complete various media production projects and assignments. VIT prepares students for a career path within the visual imaging industry. Going into a college level program or directly into the workforce during/after high school are viable career path

options for aspiring VIT students. Articulation is available with Washtenaw Community College.

### 926 Advanced Photography: 3 Trimesters

*Prerequisite: Photography; Grades 11-12*

This class will cover all aspects of the photographic world, from traditional black and white fine art prints to digital masterpieces. Students will have the opportunity to express their creative abilities and explore the world of still images. It is designed for students to discover a new outlet for personal expression. Students will learn how to use 35mm medium format and large format cameras, the chemistry and process of developing this film, as well as the artistic design to create a polished piece of artwork. Most of this equipment has historical value and is rarely used today. We will investigate many alternative processes that can create unique final prints. Students will use a Mac computer lab fully equipped with the Adobe Creative Suite in order to edit, manipulate and enhance digital photographs. This is a product used by photographers around the world. Using this technology in digital photography, students will create work that imitates what can be found in professional portfolios. Students will learn the historical aspects of photography as well as understand the photography industry. It is important that students understand the history of the art, but also have a vision of the future of the photography world. Articulation is available with Washtenaw Community College.

### 928 Building Trades: 3 Trimesters

*Prerequisite: Grades 11-12*

The Building Trades program prepares a student for employment in the construction industry. There is much for the student to learn in the field, and the immense diversity of career opportunities makes this industry one of the most interesting and challenging. The Building Trades class prepares the student with entry level skills needed for employment through the actual construction of a house. The specific areas of study include: site preparation, drywall, masonry, finish carpentry, rough carpentry, painting and wall covering, heating, plumbing, construction technique, wiring, insulation, management skills, and employability skills. A solid foundation in math skills are needed, geometry is recommended. Articulation is available with Washtenaw Community College.

### 929 GraphX Academy: 3 Trimesters at Dexter High School

*Prerequisite: Grades 11-12 and student must have their own transportation*

GraphX Academy provides skills and experiences for the student interested in graphic arts/communications as a possible career or as background for advanced education after high school. GraphX students experience on-site visits throughout the school year to local printing companies where they are exposed to all areas of the company. This gives students the opportunity to experience the latest technology and employability skills needed to be successful in a graphic arts/communications career. The school-to-work transition is a major focus of the GraphX Academy. Articulation is available with Ferris State University and Washtenaw Community College

### 934 Video News Production-SHS Today: 3 Trimesters

*Prerequisite: An interest in Broadcast News*

The Video News Production class is an in-depth look at broadcast video and school news through digital media production. Students will learn the techniques needed to write, produce and output news stories and video media that impact your school and community. The broadcast aspect of news media is met by training students in the school broadcast studio and with online learning experiences in video production projects. Each student will be exposed to the latest broadcasting technology and techniques as they produce a weekly show called SHS Today. This show is aired every Friday throughout the school year, local SCTN channel 18 and the web. Students will also be able to produce special interest shows working hand-in-hand with local community members. Articulation is available with Washtenaw Community College.

*(You are not required to be on camera at any time in this class. Many positions exist behind the scenes too!)*

### 941 Video News Production-LIVE Production Section: 3 Trimesters

*Prerequisite: Video Production I and out of class taping availability*

The Video News Production - LIVE PRODUCTION SECTION is an in-depth look at broadcast video and school event productions. It is a part of the South and West Washtenaw Consortium. Students will learn the techniques needed to shoot, edit, & produce LIVE events that impact their school and community. Each student will be exposed to the latest broadcasting technology and techniques as they produce weekly events such as Sports, Plays, Musicals, Concerts, and Special Shows. Students will work hand-in-hand with the athletic department to produce promotional and ESPN style material for the school as well as many other special projects throughout the year. Articulation is available with Washtenaw Community College

### 917 PLTW - Computer Integrated Manufacturing (CIM)

***formerly Advanced Manufacturing:*** **3 Trimesters**

*Prerequisite: Intro to Engineering Design (IED) and Principles of Engineering (POE)*

This program offers training in multiple methods of manufacturing, and can be used for Project Lead the Way credit. Students will learn how to manufacture products using manual mills and lathes, computer numerical control (CNC) mills and lathe machines, as well as rapid prototyping on a 3D printer. Students will learn to use problem solving skills to create models using AutoDesk (AutoCAD and Inventor) software, create toolpath programs/code using MasterCAM software, and master machining skills as they relate to manual machining, CNC machining, and 3D printing. The course will also stress the importance of shop safety, the design process in regards to engineering, blueprint reading, and measurement with precision tools. Enrolled students will have

the opportunity to compete at SkillsUSA and MITES competitions. This course will prepare students for manufacturing curriculum at the post-secondary level, and articulation agreements exist that allow college credits to be earned at certain colleges and universities. Students completing the course may find entry level employment in the fields of machining/programming and engineering technology. *Articulation is available with Washtenaw Community College.*

### 936 Welding and Fabrication Technology: 3 Trimesters

*Prerequisite: Grades 11-12*

The Welding and Fabrication Technology course prepares students for entry level employment in the welding and fabrication industry. Skill development in the joining processes of oxyacetylene welding, shielded metal arc welding, gas metal arc welding and gas tungsten arc welding will be developed, along with an introduction to brazing. Fabrication processes including shearing, bending, burning, plasma-arc cutting and basic power tool operation including drill press, grinding and finishing through the development and construction of student projects. In addition, welding metallurgy and blueprint reading will be covered. Successful completion of this course will prepare the student for entry into industry or college for advanced study. Students that excel may receive articulated college credits from Washtenaw Community College for this class and be prepared for the AWS welding certification test.

### 937 Auto Technology I: 3 Trimesters plus 1 additional period during 3rd trimester

*Prerequisite: Grades 11-12 or with prior authorization*

Students will learn the principles and functions of components as they pertain to automotive systems. The NATEF (National Automotive Technician Educational Foundation) Light Service and Repair curriculum is divided into four major areas of study including a light service unit, automotive engine diagnosis and repair, automotive electrical systems and braking systems. Included in the light service unit are topics ranging from safety, reference materials, fasteners, tools, precision measurement, wheels, tires and customer relations. In addition, vehicle systems like cooling and lubrication will be taught. The automotive engine area explores the testing and light repair of internal combustion engines. The automotive electrical systems unit includes all aspects from the basic battery, alternator and starter to advanced electrical diagnostics; while the braking systems unit covers all aspects of hydraulic principles, disc and drum braking systems, and anti-lock braking systems. The laboratory portion covers approximately 70 percent of this course. Internships are available through the A-YES Program. Articulation is available with Washtenaw Community College.

### 938 Computer Aided Design: 3 Trimesters

*Prerequisite: Grades 11-12*

This program offers training in computer aided drafting (CAD) in regards to the fields of Engineering or Architecture. Students will gain an understanding of CAD, from basic measurement to 3D solid modeling and photo-realistic rendering, before they will have the opportunity to explore the design fields of Engineering and Architecture as they see fit. Curriculum will be tailored to individual student's skill level and interests using the most current AutoDesk software's (AutoCAD, Inventor, and Revit). In addition, students will be given the opportunity to rapid prototype (3D print) parts or build architectural models. Students will also have the opportunity to compete at the SkillsUSA and MITES competitions. This course will prepare students for engineering/architectural curriculum at the post-secondary level, and articulation agreements exist that allow college credits to be earned at certain colleges and universities. Students completing the course may find employment in entry level positions as draftsmen, architects, or an engineering assistant.

### 945 Auto Technology II: 3 Trimesters, early start

*Prerequisite: Auto Technology I*

This course covers an advanced study of topics covered in the prerequisite course, plus additional instruction in five areas of study. The major areas of concentration are steering & suspension, engine performance & drivability, manual transmission & drive axle, automatic transmission and heating and air-conditioning. The steering & suspension unit covers many aspects of the current vehicle steering and suspension designs. The engine performance unit covers numerous topics including electronic fuel injection, computerized engine control; exhaust gas emission testing/analysis and ignition systems. The manual and automatic transmission units' are centered on maintenance and light repair. The students will be exposed to simple diagnosis and repair of the heating and air conditioning system. "State of the Art" diagnostic equipment will be emphasized throughout all units. This course is exclusively designed to provide the student with relevant and realistic "hands-on" training for preparation into the automotive servicing field, as well as establishing a foundation for possible careers as a Product Testing Technician, Dynamometer Technician, Service Manager, Parts Manager, Factory Service Representative and Engineering Technician. Students will have the opportunity to take the State mechanic certification exams at the conclusion of the course. Internships are available through the A-YES Program. Articulation is available with Washtenaw Community College.

### 946 Computer Services & Associated Electronics: 3 Trimesters

*Prerequisite: Grades 11-12; Algebra*

This class is designed to provide the student with a foundation in basic electronics with concentration in computer systems construction, repair, troubleshooting and upgrading. Basic electrical fundamentals will be covered including DC circuitry, reading schematic drawings, wiring and soldering. The focus of the class will be in preparing students to be Computer Repair Technicians. Computer Technicians are in high demand and are responsible for troubleshooting and repairing computers. Upgrading and total construction of PC's will be experienced in this class, following the industry standard of A+ computer repair certification standards. Students that excel will be prepared for A+ computer certification testing. Articulation is available with Washtenaw Community College

### 990 Careers in Education: 3 Trimesters

*Prerequisite: Grade 11-12; Application acceptance*

Cadet Teaching is for students who are interested in exploring teaching as a profession. It provides students an opportunity to get hands-on experience in the classroom before entering a teaching program in college. This experience enables students to gain knowledge and an understanding of the teaching profession. This placement will aid in the career decision making process. Placements for cadet teaching field experience are made with a professional teacher in the student's home district. Students will receive a grade based on supervising teacher evaluations, on-site observation, related assignments and a classroom teaching portfolio. *Articulation is available with Mott Community College*

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### Co-operative Education CTE - "Capstone Experience": 1-3 Trimesters

*Prerequisite: Open to all seniors, or second trimester juniors who are concurrently enrolled in a related CTE class. Application and interview process determines acceptance.*

This program provides on-the-job training in Career & Technical Education (CTE) programs such as Building Trades, Business Technology, Early Childhood Education, Health Sciences Technology, Hospitality/Culinary Arts, Marketing and several trade and industrial occupations. Students must be covered under employer's Workman's Compensation and General Liability insurance policies, and work a minimum of 10 hours per week for credit to be awarded. Students will be evaluated every six weeks by their supervisor. Submission of timesheet and meeting with the instructor will occur on a weekly basis. Students may register for After-School Co-op if schedule does not afford the ability for time release during the normal school day. One half (1/2) credit is issued per trimester for After School Co-op.

***Articulation turns high school credit into college credits***

Washtenaw Community College and the South and West Washtenaw Consortium (SWWC) offer students the opportunity to receive college credit for courses taken through the Career and Technical Education Program.

Current courses available to high school students for articulation credit include; Advanced Manufacturing; Advanced Photography; Automotive Technology; Business Management Technology; Accounting; Building Trades; Careers in Education; Computer Aided Design; Computer Servicing and Associated Electronics; Cosmetology; Graph-X Academy; Health Sciences Technology; Hospitality/Culinary Arts; Marketing; Video News Production; Visual Imaging Technology; and Welding Technology.

For articulated credit, a student must demonstrate competency at a level 4. If a student achieves a level 3, credit may be given at the discretion of the high school instructor and the college department chairperson.

The articulation program is also available with Ferris State University, Baker College, Schoolcraft College and Mott Community College.

## The Career & Technical Education Center (CTE Center)
## Located at Saline High School Room B223

The CTE Center is available to serve the needs of all students enrolled in the Career & Technical Education programs offered by the South and West Washtenaw Consortium. The Center provides students with a centrally located facility where they can receive assistance in developing specific academic skills related to their career oriented classes, in careful career planning, and in job placement. The Center also provides student assessment services and laboratory experiences related to individual career and technical needs. The goal of the CTE Center is to help all Career & Technical Education students attain their career objectives.

*It is the policy of the South and West Washtenaw Consortium not to discriminate on the basis of race, color, national origin or ancestry, gender, age, disability, height, weight, religion, language or martial status in any of its programs, activities or employment. In addition, arrangements can be made to ensure that the lack of English language proficiency is not a barrier to admission or participation.*

### 511 Introduction to Foods: 1 Trimester

This course is designed to introduce students to proper techniques in preparing foods, cooking and baking. Students will demonstrate food safety, workplace safety, and basic understanding of kitchen essentials including professionalism and understanding standard recipes. They will apply cooking and baking techniques utilizing professional culinary equipment. Students will identify various diets, and plan menus utilizing nutritional standards. Students may take this class as a freshmen or sophomore. This course will prepare students for the Culinary Arts CTE program in their Junior or Senior year. Students will gain an understanding of how to complete an application, interview, gain employment and apply for college.

### 856 Student Leadership: 1 Trimester

*Prerequisite: Grades 10-12*

This course is a basic overview in developing leaders at Saline High School. Through hands-on, practical and active experiences students will learn the essential qualities of leadership. The topics that will be covered include essential leadership qualities such as integrity, creating positive change, problem-solving, attitude, creating vision, self-discipline and staff/personal development. A community service class project is also completed.

### 875 Senior Capstone Experience: 3 Trimesters

*Prerequisite: Grade 12; a minimum GPA of 3.0; Application acceptance*

Senior Capstone Experience (SCE) is a year-long interdisciplinary course. Two main components of the course are project based learning and community service. The course is centered on one guide question: What are a student's local, state, national, and world responsibilities? The purpose of the course is for seniors to synthesize areas of future study in light of the local and global community. *Upon completion, students will receive .5 credits in English, Science and Social Studies.*

### 992 Connecting with the Exceptional Individual: 1-3 Trimesters

*Prerequisite: Grade 11 or 12; Grade 10 with Instructor Approval and Teacher Recommendation*

Students will experience working with people with special needs from across the district in educational, community, and/or recreational settings. Students will gain knowledge of various types of impairments, strategies to interact and support the people they work with, and the principles and laws that guide Special Education. This class allows students to build life-long relationships with students, peers, and staff while promoting respect, tolerance and empathy for all. Hands-on work, in-class discussions, out of school activities, and service learning opportunities are key aspects.

### 994 Connecting with the Exceptional Individual II: 3 Trimesters

*Prerequisite: Connecting I; Instructor Approval*

Students in Connecting II are expected to take on a leadership role within the program and will participate with organizations such as Special Olympics and Project Unify as well as being offered the opportunity to become involved at the state level. Educating peers and the community on respect, tolerance and empathy are an important responsibility for students who elect Connecting II. Students will study aspects of Special Education at a deeper level while also continuing to build life-long relationships with students, peers, and staff. Hands-on work, in-class discussions, out of school activities, and service learning opportunities are key aspects.

### 999 Academic Collegiate Transitions: 1 Trimester (Winter)

*Prerequisite: Grade 11*

This course is designed to make students aware of and comfortable with the format of the ACT college entrance exam. Students will learn test-taking strategies and time management skills. They will review math formulas, problem solving strategies, the scientific method, English grammar rules, and reading comprehension strategies and will practice these strategies using sample ACT items. Students will also have the opportunity to take a full-length practice ACT Test.