Southfield Public Schools

HIGH SCHOOL COURSE CATALOG

Grades 9-12

Southfield Public School Public Schools

Jennifer Green, Ph.D., Superintendent of Schools
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Southfield Public Schools

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High School Course Catalog Table of Contents

2023-2024

MISSION STATEMENT

The Mission of Southfield Public Schools educates all students in a collaborative, safe, supportive and high-quality, student-centered environment, and prepares dynamic, innovative learners to compete within the global society.

VISION STATEMENT

The Southfield Public School District will develop socially responsible and culturally sensitive citizens empowered to meet the challenges of a rapidly changing global and technologically advanced society, characterized by care, curiosity, creativity, critical thinking and the ability to effectively communicate, collaborate, and contribute to society.

Southfield Public Schools Statement of Nondiscrimination & Equal Employment Opportunity

Southfield Public Schools does not discriminate on the basis of race, color, religion, national origin, gender, disability, age, height, weight, marital status, genetic information or any other legally protected characteristic, in its programs and activities, including employment opportunities. The following individuals have been designated to handle inquiries regarding nondiscrimination policies:

Title II, Title VI & Title IX COORDINATOR

Alise Collier-Vaugh
JWE Administrative Center
24661 Lahser Road
Southfield MI 48033
(248) 746-8580

Any questions regarding adaptation of the physical facilities to comply with Section 504 of the Rehabilitation Act of 1973 should be directed to:

SECTION 504 COORDINATOR

Mrs. Paula A. Lightsey
Student Support Network
24815 Lahser Road
Southfield, MI 48033
(248) 746-8565

PROFILE OF A GRADUATE

Collaboration
Our students:

- Honor and leverage strengths to build collective commitment and action.
- Enrich the learning of both self and others.
- Seek, contribute, and respond to feedback to achieve collective outcomes.
- Elicit diverse perspectives and contributions.

Communication
Our students:

- Articulate thoughts and ideas effectively using oral, written, and nonverbal communication skills in a variety of forms and contexts.
- Listen effectively to decipher meaning, including knowledge, values, attitudes, and intentions.
- Use communication for a range of purposes and audiences (e.g. to inform, instruct, motivate, and persuade).

Critical Thinking
Our students:

- Understand the "bigger picture" and propose solutions that are mindful to the impact they may have on other parts of a system.
- Consistently improve the quality of one's own thinking by skillfully analyzing, assessing, and reconstructing.
- Applies disciplined thinking that is clear, rational, open-minded, and informed by evidence.

Global Citizens
Our students:

- Value and embrace diverse cultures and unique perspectives through mutual respect and open dialogue.
- Demonstrate personal, civic, social, local, and global responsibility through ethical and empathetic behaviors.
- Contribute and take action to make the world a better place.

Problem Solving

Our students:

- Identify, evaluate, and prioritize solutions to difficult or complex situations.
- Implement and reflect critically on a solution. Technology Literacy our students:
- Leverage appropriate tools to consume, create, communicate, and connect.
- Adapt to constantly evolving tools and appropriately integrate into daily life.
- Act with an understanding of the ethical, legal, and humanistic behavior surrounding the access and use of technology and human-machine interaction.

CAREER PATHWAYS

What is the Role of Educators?

- Help students see the connections between the skills and knowledge they are developing in school and future careers by using real-world examples in instruction.
- Implement Career Pathways.
- Help students discover their talents, strengths, and career interests.
- Collaborate with local businesses to provide work-based experiences, such as tours, mentoring, and job shadowing.
- Develop class projects where students research and learn about different careers.
- Help students understand the need for advanced skills and education for future work.
- Involve business people in curriculum design to make courses more relevant to the world of work.
- Offer instruction in workplace readiness, such as teamwork and problem solving.

Planning Your High School Program

Planning a four-year program is very important to getting the most out of high school. It is also a very challenging endeavor because with only seven class periods per semester, it is impossible to take advantage of every option. As you look at the graduation requirements you will find that some courses are specifically required by title, some are generally required by department and some are electives of choice.

Each year you will have more choices available to you. It will be helpful if you determine what you want to do after high school. Do you plan on entering the workforce right away or are you looking at continuing your education at a two-year community college or vocational school? Are you thinking of a four-year university degree and graduate school? Will participation in military service be a factor in your future? You may not know for certain what you want to do so it will be helpful to plan for the greatest amount of education that seems realistic for you.

During high school you will have a number of opportunities to explore your interests, review your strengths and weaknesses, and take career interest assessments and research potential careers. Counselors, teachers and/or Career Center specialists will lead these experiences. Of course, at any time you can visit the Career Center on your own or talk to your counselor about your choices.

Take advantage of these sessions to learn more about you. This knowledge along with a review of the course descriptions will help you make good selections. You will choose some courses because they are important for college enrollment; others because they are relevant to a particular career interest and some will be for personal growth and enrichment.

There are also a variety of extra-curricular activities, both school and community sponsored, that are available to students. Participation in these activities may provide further career exploration as well as provide an enjoyable way to fill leisure time.

High School is a time when you can explore many roads. Students should select a combination of courses and activities that will provide them with the most challenging load they can handle. Take advantage of opportunities that will stretch you academically and socially. As you try different classes and activities you will gather more information about your strengths and interests and this will eventually help to narrow your focus in your search for a career pathway.

At times the road through high school may seem confusing and overwhelming. Students, parents and school personnel should be viewed as a team working together to help students succeed. This book will be a helpful tool in this process. Give serious thought to the plans and goals you set for your high school

education. This will allow you to enjoy high school while laying the groundwork for a future that is right for you.

Career Pathway – A Personalized Educational Plan

Six Career Pathways have been approved by the Michigan Department of Career Development to provide the structure for making meaningful connections between education and the world of work.

The State of Michigan has defined six Career Pathways organized around broad career fields. Every occupation with the world of work would fall below one of the six pathways identified here:

Arts and Communications
Business, Management and Technology
Engineering/Manufacturing and Industrial Technology
Health Services
Human Services
Natural Resources and Agriscience

One of the most effective ways to help our students navigate among the thousands of different occupations is Career Pathways. These six broad groupings of careers share similar characteristics, employment requirements, common interests, strengths, and competencies. The groupings encompass the entire spectrum of career options, providing opportunities for all students and all ability levels.

This information helps students see how school subjects relate to their future employment.

Schools across Michigan are being encouraged to integrate Career Pathways into their curricula, and many are doing so! They are finding that blending Career Pathways into classroom instruction improves student attendance, retention, achievement, career decision-making, and career goal attainment.

The information in this catalog recommends specific steps that can be taken by parents as well as educators to help our students get an early start on career planning. There are steps that employers can take, too, to invest in their future workforce. Working together, we can build the framework essential to our student's success in careers of their choice.

What Can Parents Do?

- Talk with your student about their interests, abilities, and talents.
- Make sure your student goes to school every day, on time, with a good attitude, as they will need to do on a job.

- Give your student responsibility for jobs around the house.
- Find out what your student is learning in school.
- Encourage your student to participate in service-oriented activities in the community.
- Talk about how your student's interests can be applied to careers that they might enjoy.
- Explore with your student as many of these careers as possible.

With care and consideration, each student can identify an individualized Career Pathway. Students are urged to carefully consider the questions at the beginning of each pathway. When one or more pathways appear interesting, students should look carefully at the possible degrees, jobs or careers associated with each pathway. Students should note related high school elective courses that would help prepare them for each pathway. The final selection of each pathway presents related community and school activities in which it would be beneficial to participate.

The following list of foundation skills and workplace competencies indicate abilities employers deem necessary for a person to be successful on the job foundation skills.

Competent workers in the high performance workplace need:

Basic Skills
Reading, writing, arithmetic, speaking and listening.

Personal Qualities
Individual responsibility, self-esteem and self-management, sociability and integrity.

Thinking Skills
Ability to learn, to reason, to think creatively, to make decisions and to solve problems.

Workplace Competencies

Personal Qualities
Ability to allocate time, money, materials, space and staff

Interpersonal Skills
Ability to work on teams, teach others, serve customers, lead and work well with people from culturally diverse backgrounds.

Information
Ability to acquire and evaluate data, interpret and communicate and use computers to process information.

Systems

Ability to understand social, organizational and technological systems, monitor and correct performance and design or improve systems.

Technology
Ability to select equipment and tools, apply technology to specific tasks and maintain and troubleshoot equipment.

All of the identified pathways include challenging, relevant courses that provide road maps to future career goals. Additionally, because all students take a "core foundation" of academic courses, career paths overlap enough to allow the flexibility to change pathways if interests change or new knowledge and skills are acquired. In every pathway, students will continue to take the core curriculum, providing students with the skills necessary to enter post-secondary institutions.

- Decide what is important. What are the outcomes you want to achieve? Set your goals based on what is important to you.
- Set a specific grade goal for each class and determine what you are willing to set aside or to change to achieve your goal. Be realistic and list your goals in order of priority.
- Be specific about how success can be attained. Do you have an action plan? Chart your course: set time limits, review your progress periodically, e.g., every week. Think about what you need to do this week in order to reach the goal(s).

Stress Management

- Stress prepares you to act. The way you handle stress determines whether it is helpful or harmful.
- High school students face many challenges which can be stressful. It is natural to feel some anxiety about:
    -Making choices about courses, majors and careers.
    -Consulting your counselor and the Career Center for help.
    -Having your values tested by your peers.
- Avoid unnecessary stress. Health habits make stress more manageable. Don't be trapped by alcohol, drugs or panic.

Time Management
Time management is one way to handle stress. Developing effective time-management skills in school is an incredibly important and sometimes frustrating task for everyone. Time management styles need to change as you move through high school and will change again if you go on to college.

- Use some form of a placer or agenda.
- Budget your time and manage your day and do not let your day manage you!
- Develop a schedule that includes regular activities e.g., classes, meals, job, and practice with an athletic team or musical group.

- Organize and prioritize. Schedule review time for right after a lecture or right before a group project is due. Plan ahead for major projects and exams. Choose a quiet place to study and take short breaks during your study time.
- Manage your day at home: Arrange work in order of priority that clearly indicates what you will study. Commit yourself to a schedule and schedule time in ½ your blocks. Plan to spend more time on subjects which require improvement.
- Allow time to review work at least two to three days before a test.
- Transfer all unfinished tasks to a future date. Check off assignments that you have completed.
- Save enough time so that you can wait a day before editing a written assignment.

You are in charge of your learning:

The effort that you put into your education now will pay off in every aspect of your life later. Here are some helpful hints for making the most of your education.

- Use your planner.
- Attend class regularly!
- Work hard and apply yourself.
- Listen actively and carefully in class. Move closer to the front of class if needed.
- Evaluate what you hear and listen for the main ideas. Use the "Five W's (what, why, where, who) and how.
- Participate in class. Be prepared. Complete reading and other assignments. Involvement in class discussions is a good way to exchange ideas and polish communication skills. Ask questions!
- Respect others' opinions. Be courteous. Participate, don't dominate.
- Take notes. Notes are an indispensable study aid. Take notes while you read. Depending on the type of assignment, it may help to underline or highlight, develop an outline, summarize important chapters or discussions.
- Write down all information written on the board. Leave wide left margins so you can add notes and questions. Notes taken in outline form are particularly helpful. Take notes on reading assignments and lectures. Review notes after class. Go over notes at least once per week.

TESTING PROGRAMS FOR COLLEGE AND CAREER

All registrations must be accompanied with cash or money order.

P.L.A.N. (Preliminary American College Test) - is designed to help sophomores get an early start thinking about post-high school options. The PLAN provides useful information about a student's academic progress, career interests, study habits and present and future plans, needs and goals. Information gained can help guide tenth grade students in the selection of high school courses and activities, and increase their awareness of career and educational possibilities. The test is given once a year between September and December.

PSAT-NMSQT (Preliminary Scholastic Aptitude Test – National Merit Scholarship Qualifying Test) - This test is not mandatory for entrance into college but can be a very worthwhile indication of academic ability, potential for academic success and a predictor of SAT scores. Taken in the fall of the junior year, this test determines National Merit and National Achievement Semi-Finalists and Finalists. It is also a good practice test for the college tests taken in the spring of the junior year.

ACT (American College Test) – It is strongly recommended that the April or June test be taken in the junior year. This is required for the State of Michigan Scholastic program and four-year colleges and universities in the State of Michigan. Students may take the test numerous times.

SAT I (Scholastic Aptitude Test of the College Entrance Examination Board) and/or SAT II - This test is required by many out-of-state schools and should be taken in the spring of the junior year.

Students should seek their counselor's advice on the appropriateness of particular tests. Registration deadlines are described in test registration forms available in the counseling center. It is the student's responsibility to obtain information on admission requirements (GPA, standardized tests, etc.) for any post-secondary school he/she is considering.

PREREQUISITES AND LIMITATIONS

1. All substitutions and prerequisites will be specified in course description books. However, any waiver or substitution does not grant credit or reduce total credits required for graduation. If medical, religious, or other similar reasons prevent the student from participating in required classes, graduation requirements may be waived.

2. Student placement in courses will be determined by Southfield Public Schools policies and procedures and will be based on demonstrated levels of student performance and review of previous school records.

3. Any courses taken outside the regular school program must have prior approval of the building principal or designee.

Southfield Public Schools Graduation Requirements
(Michigan Merit Curriculum)

MATHEMATICS – 4 Credits

Algebra I
Algebra II with Trig
Geometry
One additional math course during final year of high school

ENGLISH LANGUAGE ARTS – 4 Credits

English Language Arts 9
English Language Arts 10
English Language Arts 11
English Language Arts 12

SCIENCE – 3 Credits

Biology
Physics or Chemistry
One additional science credit

SOCIAL STUDIES – 3 Credits

Civics (.5 credit)
Economics
U.S. Government and Politics
U.S. History and Geography
World History and Geography

PHYSICAL EDUCATION and HEALTH – 1 Credit

VISUAL, PERFORMING AND APPLIED ARTS – 1 Credit

ONLINE LEARNING EXPERIENCE

Course, Learning or Integrated Learning Experience

LANGUAGE OTHER THAN ENGLISH – 2 Credits

In grades 9-12; OR an equivalent learning experience in grades K-12 is effective for students entering third grade, beginning in 2006 (Class of 2016)

ELECTIVES

Electives selected by student, for non-core as well as specialized program requirements, such as S.T.E.M., International Baccalaureate (IB), and Career Academies.

TOTAL DISTRICT REQUIRED CREDITS FOR GRADUATION: *22*

FURTHER INFORMATION

To learning more about the Michigan Merit Curriculum and other emerging state requirements for high school graduation, please visit the state of Michigan Department of Education (MDE) website at:

http://www.michigan.gov/documents/mde/111706-finalhsfaq_178578_7.pdf

DUAL ENROLLMENT & ONLINE LEARNING

DUAL ENROLLMENT

Dual enrollment provides an opportunity for high school students with demonstrated academic potential to enroll in selected college or university courses while completing their high school graduation requirements. Currently, Southfield Public Schools has Dual Enrollment programs with Oakland Community College, Wayne State University and The University of Michigan-Dearborn. To be admitted to the program, students must satisfy the Dual Enrollment admission criteria. This includes the admission requirements for the selected college/university.

The purpose of the Dual Enrollment program is to supplement and enrich students educational experience by allowing them to pursue course work which otherwise would not be available to them. Admission as a dual enrolled student is a special non-degree status. Students are expected to complete all graduation requirements mandated by their high school. Although students are admitted with a special status, they are granted full privileges of the college/university, including use of the library and recreational facilities and the opportunity to purchase student tickets to cultural and athletic events. After graduation, admission to a degree program at the college/university will be granted provided the student meets the minimum admission criteria.

ON-LINE LEARNING

Southfield Public Schools provides students with multiple options for receiving academic instruction. Internet-based, or "online" courses, are available for students throughout their high school career. The school district utilizes two types of internet-based courses.

Online courses have been found to be particularly valuable for students who are college-bound and in need of advanced or specialized coursework. However, students who seek to improve their academic performance as gifted / talented students, or students who are seeking to engage in the district's credit recovery program, can take part in online learning.

In order to locate specific courses offered online by Southfield Public Schools, please reference the following code, followed by course code, in the directory of course offerings (Section ##).

Courses offered through Edmentum Learning Environment are coded as "OL".

Courses offered through GenNet, or teacher-led online courses, are coded "OLT"

Mathematics
Pre-Algebra
Algebra I, Semester A/B
Algebra II, Semester A/B
Geometry, Semester A/B
Pre-Calculus
Advanced Calculus
Probability & Statistics
Consumer Mathematics, Semester A/B
ACT Math, Semester A/B

English and Language Arts
English 9, Semester A/B
English 10, Semester A/B
English 11, Semester A/B
English 12, Semester A/B
Advanced English Lit & Comp
ACT English, Semester A/B
ACT Reading Prep

Science
Life Science
Earth & Space Science
Physical Science, Semester A/B
Biology, Semester A/B
Chemistry
Physics
Advanced Biology
Advanced Chemistry
Integrated Physics & Chemistry, Semester A/B
ACT Science Reasoning Prep

Social Studies
Basic American History I
Basic American History II
Civics
Geography
U.S. Government
World History, Semester A/B
Advanced U.S. History
American History I
American History II
Economics

Global Languages
Spanish I
Spanish II
Spanish III
Advanced Placement Spanish
French I
French II
French III
Advanced Placement French
Chinese I
Chinese II
German I
German II
Latin I
Latin II

Electives
Anthropology I: Uncovering Human Mysteries
Anthropology II: More Human Mysteries Uncovered
Archeology: Detectives of the Past
Art History & Appreciation
Criminology: Inside the Criminal Mind
Computer Applications & Technology
Digital Photography I: Creating Images with Impact!
Digital Photography II: Discovering Your Creative Potential
Forensic Science I: Secrets of the Dead
Forensic Science II: More Secrets of the Dead
Gothic Literature: Monster Stories
Great Minds in Science: Ideas for a New Generation
International Business: Global Commerce/21st Century Health
Law & Order: Introduction to Legal Studies
Music Appreciation: The Enjoyment of Listening
Introduction to Philosophy: The Big Picture
Personal & Family Finance
Personal Psychology I: The Road to Self-Discovery
Personal Psychology II: Living in a Complex World
Physical Education
Real World Parenting
Social Problems: A World in Crisis
Social Problems II: Crisis, Conflicts & Challenges
Sociology I: The Study of Human Relationships
Sociology II: Your Social Life
Veterinary Science: The Care of Animals
World Religions: Exploring Diversity
ACT Prep
COMPASS Assessment Prep

Mathematics
Algebra 1, Semester 1
Algebra 1, Semester 2
Algebra 2, Semester 1
Algebra 2, Semester 1
Consumer Math (Business Math)

English and Language Arts
English 9, Semester 1
English 9, Semester 2
English 10, Semester 1
English 10, Semester 2
English 11, Semester 1
English 11, Semester 2
English 12, Semester 1
English 12, Semester 2

Science
Biology, Semester 1
Biology, Semester 2
Chemistry, Semester 1
Chemistry, Semester 2
Earth-Space Science
Integrated Science 1
Integrated Science 2

Physical Science, Semester 1
Physical Science, Semester 2

Social Studies

Civics A
Civics B
Economics, Semester 1
Economics, Semester 2
Geography, Semester 1
Geography, Semester 2
U.S. Government, Semester 1
U.S. Government, Semester 2
U.S. History, Semester 1
U.S. History, Semester 2
World History, Semester 1
World History, Semester 2

Electives

Health

SPS/ GenNet (OLT) Courses

Accounting
AP Art History 1
AP Art History 2
AP Macroeconomics
AP Microeconomics
AP Comparative Government & Politics
AP Psychology
Art Appreciation
Creative Writing
French 3
German 1
German 2
Mandarin Chinese 1
Mandarin Chinese 2
Mandarin Chinese 3
Video Game Design
Psychology
Sociology
Spanish 4

NCAA FRESHMAN (COLLEGIATE)
ELIGIBILITY STANDARDS REFERENCE GUIDE

UNDERSTANDING THE RULES:

Core Course Requirements

- As of August 1, 2008, NCAA Division I requires 16 core courses be completed by students seeking NCAA eligibility. This rule applies to any student first entering any Division I college / university on or after August 1, 2008.

- NCAA Division II requires 14 core courses be completed by students seeking NCAA eligibility. However, Division II will require students complete 16 core courses beginning August 1, 2013.

- Please reference the chart on the next page, which outlines, in detail, Division I and II core-course requirements.

Test Scores Information

- Division I test has a sliding scale for test score and grade-point average. The sliding scale for those requirements is shown on the next page.

- Please Note:
    - Division II has a minimum SAT score requirement of 820 or an ACT sum score of 68.
    - The SAT score used for NCAA purposes includes ONLY the critical reading and mathematics sections. The writing section of the SAT is not used. However, please inquire with the specific university in order to determine if specific college / university standard is different from NCAA minimum requirements.
    - All SAT and ACT scores must be reported directly to the NCAA Eligibility Center by the testing agency. PLEASE REMEMBER:
        - Test scores that appear on transcripts will not be used.
        - Use the Eligibility Center code of 9999, when registering for the ACT / SAT. This will ensure that your test score will be reported directly to the Eligibility Center.

Grade-Point Average

Only core courses are used in the calculation of the student's grade-point average. In order to confirm your high school's list of NCAA-approved core courses, please reference the NCAA Eligibility Center's website in order to ensure that courses being taken have been approved as core courses. The website is www.eligibilitycenter.org.

DIVISION I 16 Core-Course Rule	DIVISION II 14 Core-Course Rule
English Language Arts – 4 years	English Language Arts – 3 years
Mathematics – 3 years Note: Algebra I or higher required	Mathematics – 2 years Note: Algebra I or higher required
Science – 2 years Note: Natural / Physical science required. One year of lab if offered by high school, in addition to year of additional English, Mathematics or Natural / Physical Science.	Science – 2 years Note: Natural / Physical science, as well as one year of lab (if offered by high school)
Social Studies / Science - 2 years	Social Studies – 2 years
Additional Courses – 4 years Note: Additional courses include any core subject (math, science, social studies, English language arts), as well a foreign language and non-doctrinal religion / philosophy.	Additional Courses – 5 years Note: 2 years of additional English, Mathematics, or Natural / Physical Science. Note: 3 years of additional courses, from any core subject area (math, science, social studies, English language arts), as well as a foreign language and non-doctrinal religion / philosophy.
TOTAL REQUIRED CREDITS: 16	**TOTAL REQUIRED CREDITS: 14**

Note 1: Beginning August 1, 2013, students planning to attend an NCAA Division II institution will be required to complete 16 core courses

Note 2: Students who are currently, or considering participation in Division I / II level collegiate athletics should consult with their high school counselor and / or NCAA clearinghouse, regarding enrollment in online courses for core-course credit. Additionally, students should consult their home high school's 48H form, for specific courses approved by NCAA Clearinghouse.

OTHER IMPORTANT INFORMATION

- Division II has no sliding scale. The minimum core grade-point average is 2.000. The minimum SAT score is 820 (verbal and math sections only) and the minimum ACT sum score is 68.
- 14 core courses are currently required for Division II. However, beginning 2013, students will be required to complete 16 core courses.
- 16 core courses are required for Division I.
- The SAT combined score is based on the verbal and math sections only. The writing section will not be used.
- SAT and ACT scores must be reported directly to the Eligibility Center from the testing agency. Scores on transcripts will not be used.
- Students enrolling at an NCAA Division I or II institution for the first time need to also complete the amateurism questionnaire through the Eligibility Center Web site. Students need to request final amateurism certification prior to enrollment.

For more information regarding the rules, please go to www.NCAA.org. Click on "Academics and Athletes" then "Eligibility and Recruiting." Or visit the Eligibility Center Web site at www.eligibilitycenter.org.

Please call the NCAA Eligibility Center if you have questions:

Toll-free number: 877/262-1492.

NCAA Eligibility Center
06/18/09 LK:cr

NCAA DIVISION I SLIDING SCALE
CORE GRADE-POINT AVERAGE/ TEST-SCORE
New Core GPA / Test Score Index

Core GPA	SAT (Verbal and Math ONLY)	ACT
3.550 & above	400	37
3.525	410	38
3.500	420	39
3.475	430	40
3.450	440	41
3.425	450	41
3.400	460	42
3.375	470	42
3.350	480	43
3.325	490	44
3.300	500	44
3.275	510	45
3.250	520	46
3.225	530	46
3.200	540	47
3.175	550	47
3.150	560	48
3.125	570	49
3.100	580	49
3.075	590	50
3.050	600	50
3.025	610	51
3.000	620	52
2.975	630	52
2.950	640	53
2.925	650	53
2.900	660	54
2.875	670	55
2.850	680	56
2.825	690	56
2.800	700	57
2.775	710	58
2.750	720	59
2.725	730	59
2.700	730	60
2.675	740-750	61
2.650	760	62
2.625	770	63
2.600	780	64
2.575	790	65
2.550	800	66
2.525	810	67
2.500	820	68
2.475	830	69
2.450	840-850	70
2.425	860	70
2.400	860	71
2.375	870	72
2.350	880	73
2.325	890	74
2.300	900	75
2.275	910	76
2.250	920	77
2.225	930	78
2.200	940	79
2.175	950	80
2.150	960	80
2.125	960	81
2.100	970	82
2.075	980	83
2.050	990	84
2.025	1000	85
2.000	1010	86

HIGH SCHOOL COURSE DESCRIPTIONS

ART DEPARTMENT

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
53090/1	AP ART HISTORY A/B	1.0	11-12	Recommendation
54006	DESIGN & MEDIA 1	0.5	10-12	
54007	DESIGN & MEDIA 2	0.5	9 – 12	Design & Media 1
55040	ADVANCED STUDIO ART	0.5	9 – 12	
55010 *	INTRODUCTION TO ART	0.5	9 – 12	
55020	THREE DIMENSIONAL ART	0.5	10 – 12	
55021 *	ADVANCED ART	0.5	9 – 12	
55025	JEWELRY	0.5	9 – 12	
55031 *	INTRODUCTION TO CERAMICS	0.5	9 – 12	

*This course may be taken for credit more than once.

COURSE OFFERINGS

53090/1 AP ART HISTORY A/B

53090/1-OLT

Grades 11-12

This course is designed to foster in students an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. In addition to visual analysis, this course emphasizes understanding works in context, considering such issues as patronage, gender and the functions and effects of works of art. Prior art training is not a prerequisite nor does the course cater exclusively to future Art History majors. This course was designed to meet the requirements of the Advanced Placement Art History requirements precisely.

55010 INTRODUCTION TO ART

Grades 9-12

In this course students will gain a rich understanding and a practical application of the principles of two dimensional and three dimensional art by working hands-on in a variety of media such as drawing, painting, posterization, mosaics, commercial art, assemblage and tacit. Materials used include papers, paints, pastels, dyes, and colored pencils. Each project will be based on a particular style found in art history to guide the students through the various trends and movements that affect our civilization. Different techniques of drawing, painting and sculpture will be explored to provide the students with the necessary skills for self-expression. This course is designed for all students regardless of previous are experiences or abilities. ***Lab fee may apply***

55020 **THREE DIMENSIONAL ART (SLHS)**

Grades 10-12 ***Prerequisite: Design & Media I***

This course is designed to explore the various media related to a sculpture. The student will learn techniques in architectural model building, sculpture and claymation. Students will be assessed in a variety of related artistic techniques. ***Lab fee may apply***

55021 **ADVANCED ART**

Grades 10-12 ***Prerequisite: Introduction to Art***

This course is for the advanced art students who wish to refine their artistic talents or proceed to an art career. An in-depth study will be conducted in the areas of 3-dimensional design, ceramics, paper mache, mobiles, puppetry, mask making, sculpture, fashion design & construction. Each student is encouraged to define his or her focused area while preparing a final portfolio. ***Lab fee may apply***

55025 **JEWELRY**

Grades 9-12 ***Prerequisite: Design & Media I***

This is a beginning craft course in the creation of jewelry. The focus of the course is learning good design techniques and developing excellent work habits. Examples of good design by artists will be studied.
Lab fee may apply

55031 **INTRODUCTION TO CERAMICS**

Grades 9-12 ***Prerequisite: Introduction to Art***

This beginning class will give the student an opportunity to work with clay using the four(4) basic techniques. These include pinch, slab, coil construction, and some throwing techniques. The students will be assessed on their ability to master these techniques as well as their correct usage of ceramic terminology. ***Lab fee may apply***

Note: This course also satisfies elective requirements for computer science / technology, as well as State of Michigan on-line learning requirement.

BUSINESS EDUCATION DEPARTMENT

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
01010	**BUSINESS MANAGEMENT & TECHNOLOGY**	**0.5**	**9 – 12**	**None**
04023 *	**STORE OPERATION 1**	**0.5**	**11 -12**	**Marketing 1 & 2 or Instructor Approval**
04024 *	**STORE OPERATION 2**	**0.5**	**11 – 12**	**School Store 1**
06031/2	**ACADEMY CREATIONS MGMT**	**1.0**	**12**	**Instructor approval**
06033/4/5	**BUSINESS CO-OP RELEASE TIME****		**12**	
ACCOUNTING/MANAGEMENT				
03010	COMPUTERIZED ACCOUNTING BASICS 1	0.5	9 – 12	None
30311	COMPUTERIZED ACCOUNTING BASICS 2	0.5	9 – 12	Computerized Accounting Basics 1
03217	BUSINESS FINANCE 1	0.5	9 – 12	C (Alg. prep) or Accounting 1
03218	BUSINESS FINANCE 2	0.5	9 – 12	Business Finance 1
INFORMATION SYSTEMS				
02050	FORD PASS	0.5	9 – 12	
01056	STEM APPLICATIONS	0.5	9 – 12	
MARKETING				
05029	INTRODUCTION TO MARKETING 1	0.5	9 – 12	C or better in BMT
05030	INTRODUCTION TO MARKETING 2	0.5	9 – 12	Intro to Marketing 1

*This course may be taken for credit more than once **Release time may be taken during 6th, 7th or 8th period

COURSE OFFERINGS

01010 BUSINESS MANAGEMENT & TECHNOLOGY

Grades 9 – 12

This one semester class satisfies the technology requirement for graduation. It includes an overview of Microsoft Office Suite, basic programming and multimedia applications. These skills are appropriate to successfully manage business operations.

04023 **STORE OPERATIONS 1**

Grades 11 – 12 ***Prerequisite: C or better in Intro to Marketing 1 & 2 or Instructor Approval***

Students operate a retail store within the school setting. Students will explore daily operations, training, selection of merchandise, sales policies, inventory control, stocking, and reordering. They will establish vendor relationships and new product introduction. Customer service, advertising, window displays, and sales promotion are included. Students will learn to use point of purchase cashiering and computerized inventory methods. Students are required to work within the store during lunch or after school.

04024 **STORE OPERATIONS 2**

Grades 11 -12 ***Prerequisite: Store Operation 1 and Instructor permission***

This course focuses on merchandising, operations, initial markup, and expense control. Students will determine how and what to buy, purchase planning, management, staff development, and training. Career and employability skills are developed with the goal of fostering entrepreneurship and business ownership.

06031/2 **ACADEMY CREATIONS MANAGEMENT 1 & 2**

Grade 12 ***Prerequisite: Instructor Approval is required***

This one-year course will enable students to develop skills in digital/graphics (required for co-op students). This course is designed to teach skills needed to succeed in various types of management occupations. Students will receive training in records management, employability techniques, and career searches. Student's assessment is demonstrated through daily assignments, projects and the completion of a variety of simulations. Individual work-related assignments and practice sets, including hands-on training in the use of digital/graphics media is the focus of this class.

06033/4/5 **BUSINESS CO-OP RELEASE TIME (NOT FOUND IN ZANGLE)**

Grade 12 ***Prerequisite: Instructor approval is required***

This is a cooperative instructional program designed to relate school instruction with on-the-job supervised employment. The student must be employed a minimum of three hours daily and enrolled in Digital/Graphics & Careers.

ACCOUNTING/MANAGEMENT

03010 **COMPUTERIZED ACCOUNTING BASICS 1**

Grades 10 – 12 ***Prerequisite: C or better in Applied Business Technology 1***

This course presents an overall picture of the accounting system as well as intensive drill and skill in each detail of the work of an accountant. It provides for basic understanding of business transactions accounting records, the accounting cycle, the interpretation of the results of operations, and the principles, procedures and terminology involved. A management simulation will be completed utilizing industry standard software.

03011 **COMPUTERIZED ACCOUNTING BASICS 2**

Grades 10 – 12 ***Prerequisite: C or better in Computerized Accounting Basics 1***

This course further emphasizes the basic concepts gained in Accounting 1, providing the student with a variety of journals, ledgers, and extended worksheets with adjusting entries. It also stresses the importance of management and decision making skills. A management simulation will be completed utilizing industry standard software.

03217 **BUSINESS FINANCE 1**

Grades 10 - 12 ***Prerequisite: C or better in Algebra Prep or Accounting 1***

This course will introduce students to the world of business finance and money management. Students will learn the fundamentals of investing, buying and selling stocks and bonds, selecting financial services and the cost of credit. They will carry out authentic financial planning activities utilizing case studies requiring students to critically analyze real-world financial scenarios, and develop their business and financial skills.

03218 **BUSINESS FINANCE 2**

Grades 10 – 12 ***Prerequisite: Business Finance 1***

This course will focus on analyzing the financial needs of a business. This will include identifying and analyzing financial statements, managing payroll and inventory, identifying required capital for business growth, determining the target profit and the break-even point. This course will give students insights into how businesses manage their finances and why wise financial management is critical to the success of the business.

INFORMATION TECHNOLOGY

55030 **ANIMATION**

Grades 9 – 12

From Cartoons to time-lapse photography, animation means action. This course will explore both video and computer animation. Planning and production steps will be covered with students working on individual and group projects. This course will also explore career and work-related opportunities as well as what is currently being done commercially in the areas. **Lab Fees may apply**.

MARKETING

05029 INTRODUCTION TO MARKETING 1

Grades 9 – 12

This initial course of Marketing is designed to provide students with an introduction to the marketing process. Students learn systematic ways for identifying, understanding and satisfying consumer and organization needs. The class focuses on free enterprise economic systems, promotion, personal selling, advertising, and publicity. Students will explore the practical application of buying motives and selling techniques. Projects and role playing are used to make the theoretical material relevant. Data interpretation and computer applications are a part of the course. All marketing students are invited to join DECA, a national association of marketing students, to develop leadership and communication skills.

05030 INTRODUCTION TO MARKETING 2

Grades 9 – 12 ***Prerequisite: Introduction to Marketing 1***

Investigation and analysis of the new product development process, the management of a product through its life cycle, and the importance of price variables in the product management cycle. Nature of advertising, media planning, customer service, selling techniques, buying motives, and the place and physical distribution of the marketing mix are studied. Students will explore career and marketing opportunities while developing employability skills.

COMMUNICATIONS

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
51010	SPEECH 1	0.5	9 – 12	
51021	BROADCAST SPEECH	0.5	9 – 12	Speech 1 or Rec.
52010	Television Production 1	0.5	9 – 12	
52011	Television Production 2	0.5	9 – 12	Television 1
52030/1	WSHJ RADIO	1.0	10 – 12	Broadcast Speech and Rec.
53011 *	ACTING 1-1**	0.5	9 – 12	Speech 1 or Rec.
53012 *	ACTING 1-2**	0.5	9 – 12	Speech 1 or Rec.
53013 *	ACTING 2-1	0.5	10 – 12	Acting 1 or Rec.
53014 *	ACTING 2-2	0.5	10 – 12	Acting 1 or Rec.
53015	PLAY PRODUCTION 1	0.5	11 – 12	
53016	PLAY PRODUCTION 2	0.5	11 – 12	
52052	DANCE COMPANY 1	0.5	9 – 12	
52053	DANCE COMPANY 2	0.5	9 – 12	

*This course may be taken for credit more than once.

**Students are encouraged to enroll in both semesters of Acting 1-1 and Acting 1-2.

COURSE OFFERINGS

51010 SPEECH 1 (SHA&T)

Grades 9 – 12

This fundamental course in Speech will help the student gain self-confidence through various types of communication activities including Public Speaking, Interviewing, Discussion, Oral Interpretation, Interpersonal Communication and Nonverbal Communication. This course is strongly suggested for every student, as good communication skills are essential.

51020 SPEECH 2 ((SHA&T))

Grades 9 – 12 ***Prerequisite: Speech 1***

Speech 2 is a course designed for the student who has completed Speech 1 and wishes to take a more in-depth look at communications. In this class, students will learn more theory regarding the Communication Process as well as more advanced performance assignments. The student will participate in a variety of public speaking situations including Special Occasion Speeches, and Forensics (humorous and serious reading, oratory, multiple reading, etc.). Students will videotape speeches and learn about audience analysis and the art of critiquing speeches. The student enrolled in Speech 1 is strongly encouraged to take Speech 2. Students must have a minimum of a 2.0.

51021 BROADCAST SPEECH ((SHA&T))

Grades 9 - 12 ***Prerequisite: Speech I or teacher recommendation***

This course is designed to help the student interested in broadcasting gain skills in announcing, writing for broadcast, basic production techniques in audio and video, FCC rules and regulations and the history of broadcasting. Students work in laboratory situations and learn to produce radio programs, announce sporting events, and conduct interviews.

52010 TELEVISION PRODUCTION 1 ((SHA&T))

Grades 9-12

Students are introduced to the elements that make TV the most powerful communication medium in the world. The class includes survey and analysis of all elements of TV production. Students will be introduced to and trained on TV production equipment. Television productions demand team work between producers, talent, videographers, editors and field/studio crews. Students will be expected to develop and practice team skills.

52011 TELEVISION PRODUCTION 2 ((SHA&T))

Grades 9-12 ***Prerequisite: Television 1***

Students build on knowledge acquired in TV Production I to develop, practice and apply skills in team work, video production and production and programming to create powerful television messages. Students will produce teacher-initiated projects and school announcements. Course content includes an introduction to television formats, script writing and interviewing, performance of television and news/special project production.

52030 WSHJ RADIO ((SHA&T))

Grades 10-12 ***Prerequisite: Broadcast Speech or teacher recommendation***

This course for the broadcasting student involves the actual operation of the school radio station, WSHJ (88.3 FM). The student prepares and performs news and weathercasts using Associated Press copy, learns the performance techniques of the disc jockey by playing taped and recorded music, prepares public affairs productions, carries out radio promotion activities, and learns to perform technical duties regarding radio equipment and broadcast transmission. Students are strongly encouraged to participate in the extracurricular operation of WSHJ and its broadcast activities.

53011/2 ACTING 1 ((SHA&T))

Grades 9-12 ***Prerequisite: Speech I or Recommendation***

This course includes a brief history of acting, an analysis of play content and dramatic criticism. Training in pantomime, voice characterization and acting (gestures and movement) are emphasized. Active participation in the memorization, interpretation, production and direction of skits and scenes is required. The fundamentals of play production, stage settings, lighting, costumes and make-up are studied. Participation in the school production is recommended.

53013/4 ACTING 2 ((SHA&T))

Grades 10-12 ***Prerequisite: Acting 1***

This course is designed for students who have either completed excellent coursework in
Acting I or have gained experience on stage and want to develop their skills as actors/directors. The course will focus on characterization, staging, and design for different styles of theater (Greek, Shakespearean, British, contemporary American, musical theater). Students considering the performing arts as a career are encouraged to select this course. Participation in the school productions is recommended.

53015/16 PLAY PRODUCTION 1 & 2

Grades 10-12

Students will participate in all aspects of producing and performing a children's theater production. From student director to costumer, props master, set construction to stage managing, students will mount a production and tour selected schools for performances. Second semester will concentrate on One Act plays mounted entirely by students for public presentations.

53015/16 DANCE COMPANY 1 & 2

Grades 9-12

This performance oriented class will utilize the students previous dance studies to create and perform choreography in concerts and various venues. Students will focus on purpose and content; discovering new music, costuming, makeup designs, lighting designs and stage terminology. Unitard required.

ENGLISH DEPARTMENT

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
NINTH GRADE				
12007	STRATEGIC READ	0.5	9-12	Recommendation
12009/10	READ 180	0.5	9-12	Recommendation
10021/2	FRESHMAN COMPOSITION & LITERATURE	1.0	9	None
10021/2-OL	FRESHMAN COMPOSITION & LITERATURE	1.0	9	None
10021/2-OLT	FRESHMAN COMPOSITION & LITERATURE	1.0	9	None
10031/2	PRE-AP FRESHMAN COMPOSITION & LITERATURE	1.0	9	Recommendation
10031/2	HNRS FRESHMAN COMPOSITION & LITERATURE	1.0	9	Recommendation
91200	ENGLISH (CI)	1.0	9-12	
91203/4	ENGLISH LANG ARTS	1.0	9-10	
91209/10	LINGUISTICS	1.0	9-12	
TENTH GRADE				
10211/2	SOPHOMORE COMPOSITION & LITERATURE	1.0	10	None
10211/2-OL	SOPHOMORE COMPOSITION & LITERATURE	1.0	10	None
10211/2-OLT	SOPHOMORE COMPOSITION & LITERATURE	1.0	10	None
12021/2	PRE-AP SOPHOMORE COMPOSITION & LITERATURE	1.0	10	Teacher Recommendation & Writing Sample
12021/2	HNRS FRESHMAN COMPOSITION & LITERATURE	1.0	10	Recommendation
ELEVENTH GRADE				
13011/2	JUNIOR COMPOSITION & LITERATURE	1.0	11	None
13011/2-OL	JUNIOR COMPOSITION & LITERATURE	1.0	11	None
13011/2-OLT	JUNIOR COMPOSITION & LITERATURE	1.0	11	None
13021/2	JUNIOR COMPOSITION & LITERATURE 11.0 WITH AP SUPPORT	11		Teacher Recommendation & Writing Sample
10033/34	IB ENGLISH 11TH (HL)	1.0	11	
13033/4	AP ENGLISH (Language & Composition)	1.0	11	Teacher approval, Writing Sample, Entrance form
14060/1	AP SEMINAR	1.0	11	Teacher approval, Writing
91205/6	ENGLISH LANG ARTS	1.0	11-12	
TWELFTH GRADE				
14031/2	SENIOR COMPOSITION & LITERATURE	1.0	12	None
14031/2-OL	SENIOR COMPOSITION & LITERATURE	1.0	12	None
14031/2-OLT	SENIOR COMPOSITION & LITERATURE	1.0	12	None
10035/36	IB ENGLISH 12TH (HL)	1.0	12	

14043/4	AP ENGLISH (Literature and Composition)	1.0	12	Teacher Approval, Writing Sample, Entrance form

ENGLISH ELECTIVES

15021/2	NEWSPAPER	1.0	10-12	Teacher Recommendation or Writing for Print
13035	CREATIVE WRITING	0.5	9-12	None
13035-OLT	CREATIVE WRITING	0.5	9-12	None
14039/40	COLLEGE WRITING	0.5	9-12	None
14034	GRAMMAR FOR COLLEGE	0.5	11-12	None
10001/2	CRITICAL THINK	0.5	9-12	None

NINTH GRADE

The focus of study for all ninth-grade students will be directed toward improving and refining communication skills, with primary emphasis on the development of writing and reading techniques. Students will devote class time to organizing their thoughts into compositions that reveal a structure of introduction, example, and conclusion. They will also read in order to enhance both their literal and inferential comprehension skills.

Students will be scheduled into one of the following sections based upon teacher and counselor recommendations. Middle school academic performance, reading scores, and evidence of strong motivation will determine primary placement.

COURSE OFFERINGS

12007 STRATEGIC READ

Grade 9

This course is designed to facilitate the transition to high school for students who need to strengthen their reading strategies. Students learn a variety of strategies to accelerate comprehension in both narrative and informational text. Content area textbooks will be used. Students will examine how they learn, eliminate miscues from their reading and writing processes and increase their vocabulary through the independent application of strategies.

10021/2 FRESHMAN COMPOSITION & LITERATURE

10021/2-OL / OLT

Grade 9

The curriculum covers the writing process, correct usage of Standard English, and analysis of literature. Cross-textual references similar to the MEAP test will be used to improve awareness of themes. Students will be expected to use class reading assignments as examples of essay theses. Students will learn to create essays which contain a recognizable introduction, body, and conclusion.

10031/2 PRE- AP FRESHMAN COMPOSITION & LITERATURE

Grade 9

Students must be recommended for this course by their English teachers. To qualify, students must show an ability to work independently at or above grade level in both reading and writing. Reading selections are more challenging than other ninth grade English courses and writing is expected to be not only well-organized but enhanced with such vehicles as figurative language, parallel structure, use of quotations, and extension of essay theses. In addition, students will be assigned summer reading before the course begins.

10031/2 HONORS FRESHMAN COMPOSITION & LITERATURE

Grade 9

Students must be recommended for this course by their English teachers. To qualify, students must show an ability to work independently at or above grade level in both reading and writing. Reading selections are more challenging than other ninth grade English courses and writing is expected to be not only well-organized but enhanced with such vehicles as figurative language, parallel structure, use of quotations, and extension of essay theses. In addition, students will be assigned summer reading before the course begins.

91200 ENGLISH (CI)

This course is directed toward improving reading, writing, spelling, and language arts skills by using The Language Program!, a mastery-based curriculum. In addition, daily living skills will be included in the curriculum to assist students with reading and writing a variety of information needed to work and to live independently within the community.

91203/4 ENGLISH LANGUAGE ARTS 9-10

Grades 9-10

The course focuses on the development of the writing process, reading strategies, correct usage of Standard English, and the analysis of literature. Emphasis will be placed upon critical evaluation in reading and writing. Students will practice the skills required for writing by working with cross-textual reading questions, written response to a scenario, and reflective writing. Students will receive modifications to their curriculum and will be assessed based on individual achievement.

91207/8 READING (SHS Only)

Grades 9-12

Utilizing The Wilson Reading Program, a multisensory approach to reading, this course is designed to assist students who have difficulty with written language in the areas of decoding and spelling. The course also provides the necessary skills to improve oral expression and reading comprehension skills. Assessment is based on individual student achievement.

91209/10 LINGUISTICS

Grade 9-12

Linguistics is a course designed to meet the individual reading, writing, spelling, and language art needs of students requiring requisite literary skills. The Language program is a mastery-based curriculum which is sequential and cumulative. Advancement relies on students' mastery in unit concepts in the Language Curriculum. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

TENTH GRADE

Students will study the form and structure of fiction, non-fiction, drama, and poetry and become familiar with the persuasive essay. Composition skills will continue to be refined. Emphasis will be place on preparing students for the reading and writing sections of the MEAP High School Test.

12011/2 SOPHOMORE COMPOSITION & LITERATURE

12011/2-OL / OLT

Grade 10

This course continues the development of the writing process and the study of literature begun in ninth grade. Particular emphasis will be placed upon critical evaluation in reading and writing. Students will practice the skills required for writing proficiency by working with cross-textual reading questions, written response to a scenario, and reflective writing.

12021/2 PRE-AP SOPHOMORE COMPOSITION & LITERATURE

Grade 10 ***Prerequisite: Teacher Recommendation and Writing Sample***

Students must be recommended for this course by their English teachers. This course is designed for high-achieving students who will be reading extensively in American literature. Compositions based on these readings will model not only the MEAP test but also the English AP examination. There is a summer reading requirement. This course is taken concurrently with Honors American History.

12021/2 HONORS SOPHOMORE COMPOSITION & LITERATURE

Grade 10

Students must be recommended for this course by their English teachers. This course is designed for high-achieving students who will be reading extensively in American literature. Compositions based on these readings will model not only the MEAP test but also the English AP examination. There is a summer reading requirement. This course is taken concurrently with Honors American History.

ELEVENTH GRADE

13011/2 JUNIOR COMPOSITION & LITERATURE

13011/2-OL / OLT

Grade 11

This course continues the development of the writing process and the study of literature begun in the ninth and tenth grades. The student will explore major periods and themes in American Literature. The origins and

evolution of American thought and language are considered in terms of their effects, not only on their own particular time periods, but also on current issues, mores, and behavior. Composition work will emphasize the analysis and evolution of American Literature. The successful completion of a research paper is one of the composition requirements of this course

13021/2 JUNIOR COMPOSITION & LITERATURE 1 WITH AP SUPPORT

Grade 11 ***Prerequisite: Teacher Recommendation and Writing Sample***

In addition to the above course description, the student will write a literature based research paper. Independent study in American Literature, including synthesis, evaluation, and analysis will be expected of students at this level.

13033/4 AP ENGLISH (LANGUAGE AND COMPOSITION)

Grade 11 ***Prerequisite: Teacher Approval, Writing Sample & Entrance Form***

This course is designed to help students become skilled readers of prose written in a variety of periods, and disciplines, and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. By their writing and reading in this course, students should become aware of the interactions among writer's purposes, audience expectations, and diverse genres, as well as the way generic conventions and the resources and language contribute to effective writing. The college composition course that the AP Language and Composition course is intended to parallel is one of the most varied in the curriculum. The college course often allows students to write in a variety of forms -narrative, exploratory, expository, argumentative, and on a variety of subjects from personal experiences to public policies, from imaginative literature to popular culture. However, the main objective in most first year writing courses is to enable students to write effectively and confidently in all their college courses and in their professional lives. Therefore, most composition courses emphasize the expository, analytical and argumentative writing that forms the basis of academic and professional communication, as well as the personal and reflective writing that fosters the ability to write in any context. As in the college writing course, the purpose of the AP Language and Composition course is to enable students to read complex texts with understanding and to write prose that is rich and complex for mature readers and to do well on the AP exam. AP rubrics are used as the guiding standard by which a student's performance is evaluated.

14060/1 AP SEMINAR

Grade 11

Students engage in conversations about complex academic and real-world issues through a variety of lenses, considering multiple points of view. Teachers have the flexibility to choose one or more appropriate themes that allow for deep interdisciplinary exploration based on:

-Concepts or issues from other AP courses
-Student interests
-Local and/or civics issues
-Academic problems or questions
-Global or International topics

91205/6 ENGLISH LANGUAGE ARTS 11-12

Grades 11-12

The course continues the development of the writing process and the study of literature. The students will analyze and evaluate a variety of genre from Americas and world literature. The successful completion of a research paper is one of the composition requirements. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

TWELFTH GRADE

14031/2 SENIOR COMPOSITION LITERATURE Grade 12

14031/2-OL / OLT

In preparation for college level reading and writing experiences, students will analyze and evaluate a variety of genre from world literature. A research paper will be expected as part of the successful completion of this course.

14043/4 AP ENGLISH (LITERATURE AND COMPOSITION)

Grade 12 ***Prerequisite: Teacher Approval, Writing Sample & Entrance Form***

This course focuses its literary content on English literature. Students will study examples of prose (essays, drama, novels, and short stories) and poetry from various periods in English literature. These examples will serve as models of effective styles which students will emulate as they create examples of a particular genre. Typically, final assessments of major works or units will involve analytical impromptu essay writing using the AP Literature and Composition rubric. Students will also write a research paper that focuses on a theme found in several of the works, or authors who have been studied in this course. Students will be well acquainted with the literary terminology that appears in the AP Literature and Composition Test. Through rigorous study and practice, students will develop a sound understanding of effective writing, as well as a firm grasp of the nomenclature that is associated with the AP Literature and Composition Examination. Ultimately, they will become more effective writers. Students are expected to take the AP examination.

10035/36 IB ENGLISH 12TH (HL)

Grade 11

This course is designed to help students become.

ENGLISH ELECTIVES

15021/2 ENGLISH -NEWSPAPER

Grades 10-12 ***Prerequisite: Teacher Recommendation or Writing for Print***

English-Newspaper is a course for students who are seriously interested in newspaper writing and production. The class produces the school newspaper, employing proper journalistic techniques. Some time spent on newspaper production before and after school is required. Only one credit may apply towards meeting the English graduation requirement.

13035 CREATIVE WRITING

13035-OLT

Grades 10-12

This course is designed for all students who wish to focus on their creative writing skills. Students will have the opportunity to write in various genres -poetry, fiction, drama, personal narrative -in order to gain an understanding of the elements and writing techniques used by published authors. Students will also read writings from these same genres -past and present -for guidance and inspiration with their own writing. Finally, they will have the chance to submit their work for publication as well as enter creative writing contests.

15015 GRAMMAR FOR COLLEGE

Grades 11-12

This course is designed to provide a review of English grammar skills for students who need to strengthen their backgrounds in English in order to assist with high school reading and writing and before taking college-level courses that require the usage of Standard English. In addition, a focus will be placed on the grammar and the punctuation that appears in the English section of the ACT and PLAN tests. The course will include note taking, discussion, reading, writing, and presentations. The course will also aid students to gain confidence with their oral fluency. Students gain an understanding how English functions in a wide range of contexts, including the media, fiction, academic writing and everyday conversation. The course offers students the opportunity to refine their writing skills and to analyze the writing process.

ENGLISH AS A SECOND LANGUAGE (ESL)

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
ENGLISH				
16020/1	ESL 1 LANGUAGE DEVELOPMENT	1.0	9-12	Teacher Recommendation
16050/1	ESL ACADEMIC SKILLS 1-1, 1-2	1.0	9-12	Teacher Recommendation
16022/3	ESL 2 LANGUAGE DEVELOPMENT	1.0	9-12	Teacher Recommendation
16060/1	ESL ACADEMIC SKILLS 2-1, 2-2	1.0	9-12	Teacher Recommendation
16024/5	ESL 3 LANGUAGE DEVELOPMENT	1.0	9-12	Teacher Recommendation
16062/3	ESL ACADEMIC SKILLS 3-1, 3-2	1.0	9-12	Teacher Recommendation
16026/7	ESL LANGUAGE DEVELOPMENT 4-1, 4-21.0	9-12		Teacher Recommendation
SOCIAL STUDIES				
76011	CIVICS	0.5	9-12	Teacher Recommendation
76050	WORLD HISTORY/GEOGRAPHY	0.5	9-12	Teacher Recommendation
76013	ECONOMICS	0.5	9-12	Teacher Recommendation
76022/3	AMERICAN HISTORY	1.0	9-12	Teacher Recommendation
76024	AMERICAN GOVERNMENT	0.5	9-12	Teacher Recommendation
MATHEMATICS				
46036	BASIC MATHEMATICS	1.0	9-12	Teacher Recommendation
46031/2	ALGEBRA PREPARATIONS	1.0	9-12	Teacher Recommendation
SCIENCE				

66021	PHYSICAL SCIENCE	1.0	9-12	Teacher Recommendation
66011/2	BIOLOGY	1.0	9-12	Teacher Recommendation

COURSE OFFERINGS

ENGLISH AS A SECOND LANGUAGE

Grades 9-12

Four sequential year-long ESL courses provide specialized instruction and learning opportunities designed for new learners of English and bilingual students who experience difficulty with academic performance related to the process of English language acquisition. Goals for ESL learners are aligned with the Michigan English Language Proficiency Standards. Students in ESL classes will be expected to demonstrate increasing competency in English language skills in the areas of speaking, listening, reading, and writing, including application of grammatical conventions.

16020/1 ESL 1 LANGUAGE DEVELOPMENT

(ESL is a two-course block including Language Development and Reading & Academic Skills.) This course focuses on: listening comprehension; speaking, including pronunciation and intonation; use of appropriate conversational strategies for interpersonal communications; the basic grammar of sentence structure, including parts of speech; and writing conventions at the sentence and early paragraph level.

16050/1 ESL ACADEMIC SKILLS 1-1, 1-2

(ESL is a two-course block including Language Development and Reading & Academic Skills.) This course focuses on: letter/sound recognition; decoding skills in reading; application of reading strategies for comprehension of controlled texts; and the use of survival vocabulary and high frequency words in oral and written forms. This course also includes orientation to school offices, policies, services, and protocols for students adapting to a new school and cultural environment. Learning resources such as dictionaries, computers, and the library are used as instructional tools.

16022/3 ESL 2 LANGUAGE DEVELOPMENT

Prerequisite: Demonstrated skill competencies described in ESL 1

(ESL 2 is a two-course block including Language Development and Reading & Academic Skills.) This course focuses on: the use of English to interact successfully with peers and adults according to audience, purpose, and setting; awareness of nonverbal communication and socio-cultural factors in the school community; grammatical conventions of English usage, particularly with regard to verb tense; and controlled writing activities using organizational strategies and rhetorical forms for practical writing tasks.

16060/1 ESL ACADEMIC SKILLS 2-1, 2-2

Prerequisite: Demonstrated skill competencies described in ESL 1

(ESL 2 is a two-course block including Language Development and Reading & Academic Skills.) This course focuses on: reading with developing fluency for multiple purposes; application of reading strategies to texts with controlled reading levels in a variety of genre; mastery of additional high-frequency vocabulary with increased recognition of vocabulary in academic contexts; and development of listening comprehension and note-taking skills for personal and academic purposes.

16024/5 ESL 3 LANGUAGE DEVELOPMENT

Prerequisite: Demonstrated skill competencies described in ESL 2

(ESL 3 is two-course block including Language Development and Reading Academic Skills.) This course focuses on: grammatical conventions such as integrating verb tenses, clauses, passive voice, and indirect speech; contextualized writing tasks for constructing paragraphs and essays using topic sentences and supporting details; and further application of organizing and additional rhetorical forms of writing.

16062/3 ESL ACADEMIC SKILLS 3-1, 3-2

Prerequisite: Demonstrated skill competencies described in ESL 2

(ESL 3 is a two course block including Language Development and Reading & Academic Skills.) This course focuses on: development of additional reading strategies with emphasis on identifying main ideas and supporting details, separating fact from opinion, outlining, predicting, identifying author's purpose, describing characters, and themes in modified selections of literature; development of vocabulary in theme-based contexts; listening for main ideas and organizing principles in academic lectures; and strategies for active participation in group projects, discussions, and individual presentations.

16026/7 ESL LANGUAGE DEVELOPMENT 4-1, 4-2

Prerequisite: Demonstrated skill competencies described in ESL 3

Students enrolled in ESL 4 are expected to concurrently enroll in a transitional, grade level English course taught in the general curriculum. This course focuses on: acquisition of vocabulary needed to obtain and process information for content-area subjects; reading and reflection on forms of literature with emphasis on themes; use of clauses, phrases, and other advanced grammatical conventions; skills for writing paragraphs and essays, including practice in all steps of the writing process; production of written or typed work according to styles and conventions required for academic purposes; listening, note-taking, and comprehension of a variety of academic lectures and media presentations; participating in classroom discussions on diverse subjects and themes.

SOCIAL STUDIES COURSES FOR ESL BILINGUAL STUDENTS

Academic instruction is more accessible to learners of English when the language demands of the subject area and lesions are taken into consideration. These social studies courses are offered to ESL students acquiring English proficiency so they may develop knowledge in the subject through the medium of the English language. The courses reflect the same content taught in the general curriculum while the instructional delivery, learning materials, and tasks are modified. (Refer to course offering descriptions listed for the Social Studies Department.)

76011	CIVICS
76050	WORLD GEOGRAPHY

76013	ECONOMICS
76014/76015	GLOBAL ISSUES
76024	AMERICAN GOVERNMENT
76022/3	AMERICAN HISTORY

MATHEMATICS COURSES FOR ESL BILINGUAL STUDENTS

46036 BASIC MATHEMATICS

This course is designed to meet the special needs of the bilingual students by providing individualized instruction in a small class setting. This course will help the students develop an understanding of the four operations using whole numbers, fractions, decimals, percentages, and other basic skills such as measurement and money, while taking into consideration the different skill level of each individual.

46031/46032 ALGEBRA PREPARATION

SCIENCE COURSES FOR ESL/BILINGUAL STUDENTS

66011/66012	BIOLOGY
66021/66022	PHYSICAL SCIENCE

WORLD LANGUAGES

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
21011/2	SPANISH 1	1.0	9-12	None
21011/2-OLT	SPANISH 1	1.0	9-12	None
21021/2	SPANISH 2	1.0	9-12	Spanish 1
21021/2 – OLT	SPANISH 2	1.0	9-12	Spanish 1
21031/2	SPANISH 3	1.0	9-12	Spanish 2
21041/2	SPANISH 4	1.0	11-12	Spanish 3
21041-OLT	SPANISH 4-1	0.5	11-12	Spanish 3
21042-OLT	SPANISH 4-2	0.5	11-12	Spanish 4-1 (OLT)
22011/2	FRENCH 1	1.0	9-12	None
22021/2	FRENCH 2	1.0	9-12	French 1
23011/2-OLT	GERMAN 1	1.0	9-12	None
23021/2-OLT	GERMAN 2	1.0	9-12	German 1
25011/2	MANDARIN CHINESE 1	1.0	9-12	None
25011/2-OLT	MANDARIN CHINESE 1	1.0	9-12	None
25021/2	MANDARIN CHINESE 2	1.0	9-12	Mandarin Chinese 1
25021/2-OLT	MANDARIN CHINESE 2	1.0	9-12	Mandarin Chinese 1
25031/2	MANDARIN CHINESE 3	1.0	9-12	Mandarin Chinese 2
25031/2-OLT	MANDARIN CHINESE 3	1.0	9-12	Mandarin Chinese 2

WORLD LANGUAGES DEPARTMENT

World Language courses, levels 1-5, offer various degrees of competency in a language other than English and skills in cross-cultural interaction. Each level consists of two semesters and students must successfully complete the prerequisites for both semesters to advance to the next level. The four fundamental language skills of listening, speaking, reading and writing are the basics of the program in each language offered. The Foreign Language National Standards of Communication, Cultures, Connections, Comparisons, and Communities delineate the objectives. It is recommended that students begin a world language class in the 9th grade and commit to a minimum of three years of study.

COURSE OFFERINGS

21011/2 **SPANISH 1**
21011/2-OLT
Grades 9-12 ***Prerequisite: B or better in English and Algebra***

This course is a comprehensive introduction to the language. It combines the communicative approach with structural analysis and cultural thematic units. The four language skills -listening, speaking, reading and writing -are emphasized and authentically assessed. Students will demonstrate ability to satisfy all the requirements of basic communicative exchanges. Students will be able to understand and express simple questions and statements, including fixed expressions and limited memorized material. Culture is an integral component of the course curriculum. **Spanish 2 is the sequence to follow**.

21021/2 **SPANISH 2**
21021/2 - OLT
Grades 9-12 ***Prerequisite: C or better in Spanish 1***

This course takes a more intermediate level approach to the continuation of the study of the four language skills explored in Spanish 1. Students will be able to successfully handle most uncomplicated communicative tasks in social situations. Students will demonstrate the ability to understand and express themselves using a number of strategies appropriate to a range of circumstances and topics. Culture continues to be an integral component of the course curriculum. **Spanish 3 is the sequence to follow**.

21031/2 **SPANISH 3**
Grades 10-12 ***Prerequisite: C or better in Spanish 2***

This course is a continuation of the four language skills. Students will understand, narrate, and describe ideas and details of connected discourse on a wide variety of topics. Students will demonstrate good control of the language through the use of more complex grammatical structures in the four language skills. Increased oral communication in Spanish is required. Culture continues to be an integral component of the course curriculum. **Spanish 4 is the sequence to follow.**

21041/2 SPANISH 4

21041/2-OLT

Grades 11-12 Prerequisite: C or better in Spanish 3

This is an advanced level integration of the four language skills. Continued expansion of vocabulary, idiomatic expressions, and linguistic structure are studied. Students will demonstrate a well-developed ability to communicate effectively with confident use of strategies, such as paraphrasing and circumlocution. Oral communication in Spanish is more intense. Culture continues to be an integral component of the course curriculum. **Spanish 5 is the sequence to follow**.

22011/2 FRENCH 1

Grades 9-12

This course is a comprehensive introduction to the language. It combines the communicative approach with structural analysis and cultural thematic units. The four language skills: listening, speaking, reading and writing are emphasized and authentically assessed. Students will demonstrate ability to satisfy all the requirements of basic communicative exchanges. Students will be able to understand and express simple questions and statements, including fixed expressions and limited memorized material. Culture is an integral component of the course curriculum. **French 2 is the sequence to follow**.

22021/2 FRENCH 2

Grades 9-1 2 Prerequisite: C or better in French 1

This course takes a more intermediate level approach to the continuation of the study of the four language skills explored in French 1. Students will be able to handle successfully most uncomplicated communicative tasks in social situations. Students will demonstrate ability to understand and express themselves using a number of strategies appropriate to a range of circumstances and topics. Culture continues to be an integral component of the course curriculum. **French 3 is the sequence to follow**.

23011/2-OTL GERMAN 1

Grade 9-12

The objective of this course is to guide students in developing an elementary knowledge of each of the five language skills: listening, speaking, reading, writing and cultural awareness. Emphasis is placed upon understanding and using the language in everyday situations.

23021/2-OTL GERMAN 2

Grade 9-12 *Prerequisite: German 1*

Building upon knowledge gained in German 1, this course seeks to expand the knowledge of the five basic skills: listening, speaking, reading, writing and cultural awareness. The goal of this course is the use of the language in authentic situations.

25011/2 MANDARIN CHINESE 1

250112-OTL

Grade 9-12

The objective of this course is to establish a foundation of Chinese in four language skills (listening, speaking, reading and writing). Students learn to use the language meaningfully and begin to develop the facility to communicate in the context of the Chinese-speaking world. Basic grammar and vocabulary are taught in terms of function and application to real-life situations. Students listen to tapes recorded by native speakers, participate in daily speaking and listening activities, and write simple, guided sentences. Using the Chinese dictionary and typing Chinese with a computer will also be introduced so that students become self-learners throughout their lives.

25021/2 MANDARIN CHINESE 2
25021/2-OTL
Grade 9-12 ***Prerequisite: Mandarin Chinese 1***

This course is a continuation of the development of the four language skills of Chinese: listening, speaking, reading and writing. Students will gain the language and cultural knowledge through more complex themes and topics. Some selected readings are studied for increasing comprehension. Writing practice is limited to structural drills and some short compositions with specific criteria for structure and content. Speaking skills are practiced daily in class discussions and prepared conversations. Students will be able to express themselves and understand others in increasingly complex situations.

25031/2 MANDARIN CHINESE 3
25031/2-OLT
Grades 9-12 **Prerequisite: Mandarin Chinese 2**

This course establishes a higher level of study of Chinese in the four language skills: listening, speaking, reading and writing. Students learn to produce correct sentences, write in paragraphs, create cohesive discourse, and express themselves. Students will read varieties of authentic materials including magazines, newspapers, short stories and other pertinent passages of literature and general interests. Students will gain extensive Chinese cultural knowledge, and acquire cross-cultural awareness and international perspectives.

MATHEMATICS

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
42001/2	ALGEBRA 1	1.0	9	
42001/2-OL	ALGEBRA 1	1.0	9	
42001/2-OLT	ALGEBRA 1	1.0	9	
	ALGEBRA 2 LAB	0.5	11-12	
44021/2	ALGEBRA 2 WITH TRIG	1.0	11-12	A grade of A or B in Geometry, C or D in Honors Geometry, or a C in Algebra 2, and teacher recommendation
44021/2-OL	ALGEBRA 2 WITH TRIG	1.0	11-12	A grade of A or B in Geometry, C or D in Honors Geometry, or a C in Algebra 2, and teacher recommendation
44041/2	ADVANCED ALGEBRA & TRIG	1.0	10	A or B in Honors Geometry/teacher rec.

44031/2	CONSUMER & CAREER MATH	1.0	12	Seniors Only
44031/2 – OL	CONSUMER & CAREER MATH	1.0	12	Seniors Only
43021/2	GEOMETRY	1.0	9-11	Successful completion of Algebra with a grade of A or B, and teacher rec.
43021/2-OL	GEOMETRY	1.0	9-11	Successful completion of Algebra with a Grade of A or B, and teacher rec.
43021/2-OLT	GEOMETRY	1.0	9-11	Successful completion of Algebra with a Grade of A or B, and teacher rec.
45015/16	FUNCTION STATISTICS & TRIG	1.0	11-12	
45011/2	PRE-CALCULUS	1.0	11-12	Grade of A or B in Algebra 2 with Trig or a grade of C or D in Advanced Algebra with Trig and teacher recommendation
45031/2	BEGINNING CALCULUS	1.0	11-12	A grade of A or B in either Advanced Algebra with Trig or Pre-Calculus and Teacher recommendation
45015/16	AP CALCULUS	1.0	11-12	B or better in Beginning Calculus and Teacher recommendation
45041/2-OLT	AP CALCULUS	1.0	11-12	B or better in Beginning Calculus and Teacher recommendation
46063/4	STATISTICS	1.0	11-12	A grade of C or D in Pre-Calculus or Beginning Calculus
46061/2	AP STATISTICS	1.0	11-12	Same as Statistics, plus recommendation from teacher
40002/3 – OL	ACT MATH	1.0	10-12	
94203/4	ALGEBRA PREP	1.0	10-11	
94207/8	ALGEBRA	1.0	11-12	
94209/10	CONSUMERS MATH	1.0	9-10	

COURSE OFFERINGS

42001/2 **ALGEBRA 1**

42001/2 – OL / OLT

Grades 9-10 ***Prerequisite: 8th grade recommendation***

This course begins the formal study of the properties, principles, abstract reasoning, and skills of introductory algebra. Students will learn to solve linear, quadratic, and literal equations, as well as linear inequalities. They will also solve systems of linear equations. Students will solve problems using a variety of number sets including natural, whole, integer, rational and irrational. Students will represent algebraic relationships using variable expressions, graphs and tables. Operations and properties of exponents, radical and scientific notation are learned along with exposure to logarithmic and power functions. Students will perform basic operations with polynomials and learn several factoring techniques, using them to solve quadratic equations. MME/ACT objectives will also be incorporated throughout the year. A graphing calculator is recommended.

44021/2 - OL **ALGEBRA 2 WITH TRIGONOMETRY**

Grades 10-12 ***Prerequisite: A grade of A or B in Geometry, C or D in Honors Geometry, or a C or better in Algebra 2, and a teacher recommendation***

This course integrates algebra and trigonometry and is a preparation for Precalculus. The course reviews, strengthens and expands the techniques of Algebra 1. Included topics are an in depth presentation to the complex number system, polynomials (operations and factoring), linear equations and inequalities, systems of equations, coordinate geometry, the quadratic function, and real exponents. Right triangle trigonometry, exponential and logarithmic functions, conic sections and sequences and series will be covered. Statistics and data analysis are incorporated into topics throughout the year as students use measures of central tendency to describe data and algebraic expressions to model and solve real life problems. MME/ACT objectives will also be incorporated throughout the year. A graphing calculator is required.

44041/2 **ADVANCED ALGEBRA & TRIGONOMETRY 1 & 2**

Grade 10 ***Prerequisite: A grade of A or B in Honors Geometry and a teacher recommendation***

These students are on course to take Advanced Placement Calculus in their senior year. This course integrates algebra and trigonometry and is a preparation for Beginning Calculus. The course includes a rigorous pace and introduces multiple problem solving techniques. The course strengthens and expands the techniques of Algebra 1. Included topics are an in depth presentation to the complex number system, polynomials (operations and factoring), linear equations and inequalities, systems of equations, coordinate geometry, the quadratic function, and real exponents. Right triangle trigonometry, exponential and logarithmic functions, conic sections and sequences and series will be covered. MME/ACT objectives will also be incorporated throughout the year. A graphing calculator is required.

44031/2 - OL **CONSUMER & CAREER MATH (SPECIAL EDUCATION ONLY)**

Grade 12 ***Prerequisite: Designed for seniors that need an additional math credit***

The main purpose of this course is to assist students in learning how to use mathematics effectively as a tool in their personal and business lives. Emphasis is placed on the translation of mathematics into meaningful applications. After students have completed the course, they will be able to understand terminology relating to personal and business mathematics applications, apply basic math skills to the solution of both personal and business applications, and use common mathematics formulas to solve a variety of personal and business mathematics problems. A calculator is required.

43021/2 **GEOMETRY**

43021/2-OL / OLT

Grades 9-11 ***Prerequisite: Successful completion of Algebra with a grade of A or B, and a teacher recommendation***

This is a geometry course designed to introduce students to the study of figures in two and three dimensions. It is based on geometric principles generated by definitions, postulates and theorems. The course provides students with the information and skills to write simple deductive proofs and understand geometric relationships. Students will apply principles to make and test conjectures. Students will gain an understanding of geometric relationships. Statistics and data analysis are incorporated into topics throughout the year as students use measures of central tendency to describe data and algebraic expressions to model and solve real life problems. MME/ACT objectives will also be incorporated throughout the year.

43025/6 **HONORS GEOMETRY 1 & 2**

Grade 9 ***Prerequisite: Successful completion of Algebra in the 8th grade with a grade of B-or better, and a teacher recommendation***

This is a rigorous geometry course designed to introduce 9th grade students to the study of figures in two and three dimensions. It is based on geometric principles generated by definitions, postulates and theorems. The course provides students with the information and skills to write simple deductive proofs and understand geometric relationships. Students will apply principles to make and test conjectures. Students will gain an understanding of geometric relationships. MME/ACT objectives will be incorporated throughout the year.

45011/2 **PRE-CALCULUS**

Grades 11-12 ***Prerequisite: A grade of A or B in Algebra 2 with Trig or a grade of C or D in Advanced Algebra with Trig and a teacher recommendation***

This course develops advanced topics in mathematics in preparation for the calculus courses offered in high school or in college. The use of models in making connections between related ideas and real world applications is stressed. Topics include analysis of various types of functions (linear, quadratic, rational, circular, logarithmic, and exponential), limits, and solving systems of equations using a variety of methods. Students are expected to use transformations for graphing the functions mentioned above. Other topics include continuity, end behavior, maxima and minima, composition of functions, inverses, and exponential, logarithmic and trigonometric functions. Complex numbers as well as conics are also investigated. If time permits, this course concludes with work on infinite sequences and series, the sum of infinite series and an introduction to the concept of derivative. A graphing calculator is required.

45015/16 **FUNCTION STATISTICS & TRIG**

Grades 11-12

The goals of Functions, Statistics and Trigonometry is to present topics from these three areas in an unified way to help students prepare for everyday live and future courses in mathematics. Spreadsheet, graphing and CAS technology are employed to enable students to explore and investigate, and to deal with complicated functions and data.

45031/2 **BEGINNING CALCULUS**

Grades 11-12 ***Prerequisite: A grade of A or B in either Advanced Algebra with Trig or Pre-Calculus OR a grade of A in Algebra 2 with Trig and a teacher rec.***

This is an advanced course in mathematics and is designed to continue preparation for Calculus. The course will cover all of the Pre-Calculus topics and will begin the Advanced Placement Calculus course syllabus. During the first semester, you will participate in an in-depth study of functions and their connection to both their geometric and algebraic representations. You will learn to use three fundamental views of functions (analytical, graphical and numerical) and be prepared to interpret transformations in any of the representations. You will learn to understand and use the behavior of elementary functions in problem-solving situations. The 1st semester includes many types of equations, and topics in advanced trigonometry. The syllabus contains non-function representation of conic sections and parametric equations. We will discuss a more formal presentation of limits of functions. In the second semester you will learn differential calculus and apply it to real life problems and situations.

45041/2 **AP CALCULUS**

45041/2-OLT

Grade 12 ***Prerequisite: B or better in Beginning Calculus and a teacher recommendation***

This course is designed for students who have shown exceptional ability and interest in mathematics. This course, together with Introduction to Calculus, prepares students for the Calculus AB or BC Advanced Placement Exam. This course follows the syllabus prepared by the College Entrance Examination Board for Advanced Placement Mathematics. Both differential and integral calculus and a variety of their applications are included. Full use of the T1-82, 83, 84, 86, or 89 graphic calculator is assumed.

46063/4 **STATISTICS**

Grades 11-12 ***Prerequisite: Algebra 2***

Statistics is the study of data. Students will collect, organize and analyze data. They will predict outcomes from their analysis and test the validity of their predictions. The course includes writing and problem solving as well as the preparation and presentation of projects that use statistical methods. A graphing calculator will be required for the course. Note: colleges and universities do not recognize statistics as a fourth year of high school mathematics.

46061/2 **AP STATISTICS**

Grades 11-12 **Prerequisite: Algebra II**

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference. A graphing calculator will be required for the course. Note: colleges and universities do not recognize statistics as a fourth year of high school mathematics.

94209/10 **CONSUMER MATH**

Grades 9-10

The main purpose of this course is to assist students in learning how to use mathematics effectively as a tool in their personal and business lives. Emphasis is placed on the translation of mathematics into meaningful applications. After students have completed the course, they will be able to understand terminology relating to personal and business mathematics applications, apply basic math skills to the solution of both personal and business applications, and use common mathematics formulas to solve a variety of personal and business mathematics problems. A calculator is required. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

94203/4 **ALGEBRA PREP 1**

Grades 10-11 ***Prerequisite: 8th grade recommendation, unsuccessful completion of Algebra 1***

This course helps prepare students for the formal study of algebra. It emphasizes work with fractions, decimals, percent, and abstract reasoning. This course introduces techniques for solving equations and operations with polynomials. Probability, statistics and data representation and analysis are incorporated into topics throughout the year as students use measures of central tendency to describe data. If time permits, the topics of linear measure, surface area, and volume will be included. MEAP objectives will also be incorporated throughout the year. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

94207/8 **ALGEBRA 1**

Grades 11-12 ***Prerequisite: 8th grade recommendation, pass Algebra Prep***

This course begins the formal study of the properties, principles, abstract reasoning, and skills of introductory algebra. Students will learn to solve linear, quadratic, and literal equations, as well as linear inequalities. They will also solve systems of linear equations. Students will solve problems using a variety of number sets including natural, whole, integer, rational and irrational. Students will represent algebraic relationships using variable expressions, graphs and tables. Operations and properties of exponents, radical and scientific notation are learned. Students will perform basic operations with polynomials and learn several factoring techniques, using them to solve quadratic equations. Statistics and data analysis are incorporated into topics throughout the year as students use measures of central tendency to describe data and algebraic expressions to model and solve real life problems. MEAP objectives will also be incorporated throughout the year. A graphing calculator is required. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

MUSIC

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
57076	PIANO 1	0.5	9-12	
57080	INTERMEDIATE PIANO	0.5	9-12	
57081	ADVANCE PIANO	0.5	9-12	
57023	JAZZ BAND 1	0.5	9-12	
57024	JAZZ BAND/GUITAR 2	0.5	9-12	
56021/2	CONCERT CHOIR	1.0	10-12	Audition
56024 *	MIXED CHOIR	0.5	9-12	
56031/2 *	VARSITY CHOIR 1, 2	1.0	9-12	Audition
56010/1 *	WOMEN'S CHOIR 1, 2	1.0	9-12	Audition
56024/5	MIXED CHOIR 1, 2	0.5	9-12	Audition
56041/2 *	MADRIGAL SINGERS ½	1.0	10-12	
57011/2 *	ORCHESTRA – STRINGS ½	1.0	9-12	Audition
57021/2	INTRODUCTION TO BAND (CONCERT)			
57030	MARCHING BAND	0.5	10-12	
57058/9 *	PERCUSSION TECHNIQUE ½	1.0	9-12	Audition
57066/7 *	CONCERT/INTERMEDIATE BAND	1.0	9-12	Audition

*This course may be taken for credit more than once **Course may be assigned after school ***Not given for credit

COURSE OFFERINGS

VOCAL MUSIC

56021/2 **CONCERT CHOIR (SLHS)**

Grades 10-12 ***Prerequisite: 9th grade with teacher recommendation***

Concert Choir is an intermediate level choir for students in grades 10-12 that have previously enrolled in a vocal music class. Freshmen may participate if they are granted permission from the instructor. This choir is a large ensemble for students who wish to continue to develop their vocal music skills. Many concerts will be performed and are considered to be a part of each student's grade. It is strongly recommended that students enroll in Concert Choir for the entire year. Music theory, sight singing, history appreciation, and vocal pedagogy are a part of the Concert Choir experience.

56024 MIXED CHOIR (SHS)

Grades 9-12

As members of the Mixed Choir, students have the opportunity to develop their musical knowledge, vocal techniques, reading, vocal independence and more advanced choral singing. They may participate in concerts and public appearance.

56031/2 VARSITY CHOIR 1, 2

Grades 10-12 ***Prerequisite: Teacher Recommendation/Audition***

Varsity Choir/Class Act performs a variety of music. Broadway and popular songs are highlighted, including stage choreography and simple dance steps. After school and evening performances are extensive for this ensemble. Admittance is through successful audition with the vocal music teacher for ninth through twelfth grade men and women who have reached a high proficiency of musicianship and showmanship. Music, history, theory and appreciation, as well as vocal pedagogy and skills are taught.

56024/5 MIXED CHOIR 1, 2

Grade 9-12

Men's Ensemble is an entry-level choir that performs a variety of music. This ensemble is open to all high school men with an interest in developing singing technique; sight singing skills, music theory and an exposure to a wide variety of music. No prior vocal music experience is required to participate in this group. It is strongly recommended that students enroll in Men's Ensemble for the entire year to completely experience the benefit of this course.

56041/2 MADRIGAL SINGERS (CHAMBER ENSEMBLE) (SHS & SLHS)

Grades 9-12 ***Prerequisite: Teacher Recommendation/Audition***

Madrigal Singers is a chamber ensemble of highly proficient singers who study and perform a variety of choral music. Music of the 16th and 20th centuries is highlighted. After school and evening performances are extensive for this ensemble. Music history, theory, and appreciation, as well as vocal pedagogy and skills are taught.

Grades 9-12

57011/2 ORCHESTRA, STRINGS (SHS & SLHS)

Grades 9-12

The school orchestra gives regular concerts for the public throughout the year. Participation in district and state orchestra and solo ensemble festivals is encouraged. Students are introduced to basic orchestral literature and has their musical appreciation greatly enriched. In order to continue the student's technical growth, the teacher may recommend exercises to be played individually at sectionals. Sectionals which require extra time of both student and teacher and are available to all students but not required.

57021/2 INTRODUCTION TO BAND (CONCERT BAND) (SLHS)

Grades 9-12

Concert Band is available for the less advanced student who is not yet eligible for Marching Band/Symphonic Band. The music curriculum calls for ninth grade students to participate in Concert Band for one year. This class may not be used for a physical education credit. Students are encouraged to study privately.

57030 MARCHING BAND (SLHS)

Grade 9-12 ***Prerequisite: Teacher Recommendation***

The marching unit will be active during the fall semester. Participation will be determined through auditions. This group will primarily consist of 10-12 grade students. Ninth grade students may be accepted through an audition and with the band director's approval. Students must attend band camp in order to participate in Marching Band.

57058/9 PERCUSSION TECHNIQUE 1 12 (SHS)

Grades 9-12

Percussion Technique is the performing group for all percussion instrument players. Emphasis will be on the development of appropriate technical skills. Performance is a vital part of this course and members will be required to participate in scheduled performances.

PHYSICAL EDUCATION/HEALTH/LIFE MANAGEMENT DEPARTMENT

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
31030	HEALTH	0.5	9-12	
31030 – OL	HEALTH	0.5	9-12	
31023	LIFETIME FITNESS	0.5	9-12	Male
31024	LIFETIME FITNESS	0.5	9-12	Female
31033	TEAM SPORTS	0.5	10-12	Male
31034	TEAM SPORTS	0.5	10-12	Female

32021/2	WEIGHT TRAINING/SPORTS CONDITIONING (MALE/FEMALE)	1.0	10-12	*
32011/2	ADVANCED PHYSICAL ED.	1.0	10-12	*
32031	AEROBICS	0.5	9-12	
37017	PE	0.5	9-12	
32013/4	DANCE 1	0.5	10-12	
93201/2	ADJUSTED P.E.	0.5	9-12	
98201/2	DAILY LIVING SKILLS/HEALTH	0.5	9-12	

LIFE MANAGEMENT (SLHS ONLY)

33020	CHILD DEVELOPMENT	0.5	10-12	
33030	INDEPENDENT LIVING SKILLS	0.5	10-12	
33040	FOODS/NUTRITION		0.5	9-12

*These courses are designed for students who have demonstrated good performance and behavior in 1.5 credits of Health, Lifetime Fitness, and Team Sports.

COURSE OFFERINGS

31030 HEALTH
31030 - OL
Grade 9-12
Classroom instruction focuses on the 9th through 12th grade series dealing with family life and sexual health. Instruction includes drug, alcohol, and substance use/abuse awareness. The relationship between the social, emotional, and physical aspects of health, including family relationships, peer influences, emotional well-being, stress, and personal feelings are also covered. Basic first aid and CPR will also be covered in this course.

31023/4 LIFETIME FITNESS -MALE/FEMALE
Grades 9-12
This course combines classroom and laboratory instruction. Classroom instruction focuses on areas of first aid and cardio-pulmonary resuscitation. Laboratory experiences include a total body approach in cardio-vascular conditioning, strength, endurance, and the development of flexibility. The gym, pool, and outdoors are used to achieve the goals of the course. Physical fitness testing provides an evaluation of the student against national norms. Competency in basic swimming is evaluated.

31033/4 TEAM SPORTS -MALE/FEMALE

Grades 10-12

This laboratory course focuses on an individualized physical fitness program. Experiences will include cardio-vascular conditioning, strength, endurance, and the development of flexibility. Lifetime activities will be included. Swimming is offered for those who have not yet demonstrated competency.

32021 WEIGHT TRAINING/SPORTS CONDITIONING -MALE (SLHS)

Grades 10-12 ***Prerequisite: Lifetime Fitness or Team Sports***

This course will focus primarily on a total body approach to cardiovascular conditioning, strength, endurance and the development of flexibility. The gym, weight room, and the pool may be used for these activities.

32022 WEIGHT TRAINING/SPORTS CONDITIONING -FEMALE (SLHS)

Grades 10-12 ***Prerequisite: Lifetime Fitness or Team Sports***

This course will focus primarily on a total body approach to cardiovascular conditioning, strength, endurance and the development of flexibility. The gym, weight room, and the pool may be used for these activities.

32011/2 ADVANCED PHYSICAL EDUCATION

Grades 10-12 Prerequisite: Team sports

Advanced physical education will focus on the strategies of varsity sports i.e. tennis, volleyball, soccer, football, basketball, and softball. Upon completing this course, a student will have a basic working knowledge of techniques and officiating aspects involved in playing the after mentioned sports. This will give a student the ability to pursue officiating opportunities within the community and surrounding communities.

32031 AEROBICS (SHS ONLY)

Grades 9-12

This course consists of both a classroom and physical component. Classroom instruction will focus on researching various topics related to aerobics and physical fitness. Students will also be responsible for designing and implementing their own aerobic unit. The physical component will include aerobics, weight lifting, stretching, physical fitness, and circuit training. Students will experiment with several different types of aerobics including, but not limited to floor exercise, step aerobics, Tae Bo, and water aerobics. The gym, pool, weight room, and outdoor facilities are used to achieve the goals of the course.

32013/4 DANCE 1 (SLHS Only)

Grades 10-11

Students will learn a combination of dance techniques, ballet, modern, and jazz. Studies in the culture of dance: autonomy and physiology; nutrition; and instruction on making costumes, applying stage make-up, designing lighting pans and stage terminology.

LIFE MANAGEMENT (SLHS ONLY)

93201/2 ADJUSTED PHYSICAL EDUCATION

Grades 9-12

This course involves a total body approach to cardiovascular conditioning, strength, endurance, and the development of flexibility. It teaches lifelong physical fitness skills in sports areas (volleyball, basketball, softball, tennis badminton). An individualized program also focuses on both emotional and physical development while attempting to enhance students' self-image and confidence through personal growth and development.

98201/2 DAILY LIVING SKILLS/HEALTH 1-1, 1-2

Grades 9-12

This curriculum is a multifaceted approach to educating Trainable and Educable Mentally Impaired students in a comprehensive high school setting. The curriculum includes activities of daily living, social skills and awareness, leisure and recreation, prevocational skills, health and safety, basic work skills, adjusted physical education, and Community Based Vocational Instruction. CI (EMI)

33020 CHILD DEVELOPMENT

Grades 10-12

The scope of this course will concentrate on how children grow and develop. Students will learn what influence the role of parenting plays in this developmental process. Students will trace each stage of development from conception, prenatal, birth, infancy, toddler, "terrible two's" through adolescence. Each student will be expected to develop his/her own personal philosophy of guidance and discipline for child-rearing. Community services offering parenting information and assistance will be identified and their resource spokesperson will be guest speakers.

33030 INDEPENDENT LIVING SKILLS

Grades 10-12

Independent Living Skills helps students analyze how consumer decision-making skills and lifestyle choices can affect family economics. Students learn that real life decision making has consequences. Students prepare individual goals for credit, banking, car loans, insurance, and consumer awareness.

33040 FOODS/NUTRITION

Grades 9-12

Nutrition combines classroom and laboratory instruction. Classroom instruction focuses on the study of nutrients and their presence and function within the body. Laboratory experiences include the preparation of various foods with an emphasis on healthy methods of preparation.

SCIENCE DEPARTMENT

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
60011/2	INTEGRATED SCIENCE	1.0	9	None
60011/2 – OL	INTEGRATED SCIENCE	1.0	9	None
60011/2 – OLT	INTEGRATED SCIENCE	1.0	9	None
61025/6	PRE AP BIOLOGY	1.0	9	B in Algebra and 8th grade Science with Teacher recommendation
61010/1	BIOLOGY	1.0	10-12	8th grade/Teacher recommendation (SLHS Only) Pass Integrated Science
61010/2 – OL	BIOLOGY	1.0	10-12	
61010/2 – OLT	BIOLOGY	1.0	10-12	
61036/7	AP BIOLOGY	1.0	11-12	B Bio & Chem.
61012/13	IB BIOLOGY (SL1)	1.0	11	
63014/15	IB BIOLOGY (SL3)	1.0	12	
63021/2	CHEMISTRY	1.0	10-12	B Algebra or higher math
63021/2 - OL	CHEMISTRY	1.0	10-12	B Algebra or higher math
63031/2	AP CHEMISTRY	1.0	11-12	B+ chemistry *
63045/46	IB CHEMISTRY 11TH (SL)	1.0	11	
63045/46	IB CHEMISTRY 12TH (SL)	1.0	12	
64011/2	PHYSICS	1.0	11-12	C in Chemistry **, A in Chem. Com,
64026/7	AP PHYSICS	1.0	12	B+ in Pre-AP Physics, B+ in Physics
65050	INTRO TO CRIMINAL SCIENCE	0.5	11-12	
65040	ENVIRONMENTAL SCIENCE	0.5	11-12	
61051/2	AP ENVIRONMENTAL SCIENCE	1.0	11-12	C or better in Bio and Chem. or B in Conservation
65015/6	HUMAN ANATOMY AND PHYSIOLOGY	1.0	11-12	B in Bio.
65019	BIOTECHNOLOGY	0.5	12	C or better in Chem/Anatomy
65019	CONSERVATION	0.5	10-12	
65060	CRIMINAL SCIENCE	0.5	11-12	
65011/2-OL	PHYSICAL SCIENCE	1.0	9-12	
96203/4	INTEGRATED SCIENCE 9	1.0	9	
96201/2	PRACTICAL SCIENCE (CI)	1.0	9-12	
96005/6	BIOLOGY	1.0	10	

*AP CHEM: It is recommended that students have taken or are taking Physics.

**PHYSICS: It is strongly recommended that the students have taken or are taking Algebra 2

COURSE OFFERINGS

60011/2 INTEGRATED SCIENCE

60011/2 - OLT

Grade 9

This is a yearlong class designed to be a survey of the geo-sphere, atmosphere, space, waves and matter. Areas of study will include astronomy, meteorology, and the processes controlling the structure and evolution of the Earth and its crust. Also covered will be wave properties, circuitry, and basic chemistry. Learning will be facilitated through a variety of elements including text-based and computer-based instruction, lecture, films, projects, and real-world applications.

61025/6 PRE-AP BIOLOGY (SHS Only)

Grade 9 ***Prerequisite: B in Algebra and 8th Grade Science with teacher recommendation***

This course is for students who show an ability to work independently at or above grade level in both math and reading. Additionally, students will engage in independent research in which they will synthesize and relate biological information to different areas of biology. The course content will cover both MEAP. Content Standards and selected Advanced Placement objectives such as bio-statistical analysis, cellular and plant physiology, and microbiology.

61010/1 BIOLOGY

61010/1 – OL / OLT

Grades 10-12 ***Prerequisite: Passing grade in Integrated Science***

Biology presents the basic facts and principles which illustrate the interrelationships among living things. Instruction will focus on the topics of cells, biochemistry, energy transformations, genetics, molecular biology, evolution, air and water pollution, and a representative survey of the five kingdoms of the living world. Students will be provided with activities and laboratory experiences.

61036/7 ADVANCED PLACEMENT BIOLOGY (Alternate Years for SHS Only)

Grades 11 -12 Prerequisite: B in Biology and Chemistry

This course is designed to be the equivalent of a college introductory biology course.

Students may obtain college credit if they pass the Advanced Placement Exam. Topics covered include bio-chemistry, cells, energy transformations, genetics, molecular biology, evolution, ecology, and a study of the five kingdoms of the living world. Laboratory work is an integral part of this course. Students are expected to take the AP examination.

61012/13 IB BIOLOGY (SL1)

Grades 11

This course is designed to allow students to explore such topics as: Statistical Analysis, Chemistry of life, Cell Theory, Cellular Respiration, Photosynthesis, Genetics, Ecology, Human Health and Physiology, and Microbes and biotechnology. A total of forty hours of practical laboratory work is performed in the SL IB Bio course. Thirty of these lab hours will consist of investigative, student – directed lab work. The interdisciplinary Group Four project entails ten hours of collaborative effort where students from varying IB science courses study a scientific topic of their choice and present their data. IB SL Biology students are evaluated in two manners. Students will sit for three IB formal examinations, which comprise 76% of their final grade. These examinations or papers make up the student's external assessment and are monitored by IB. The remaining 24% or internal assessment is derived from the practical investigations or laboratory work, carried out over the year of course study. Students will also sit for classroom examinations throughout the year. All study material is approached with an international focus and course instruction is student – focused and teacher directed

61013/14 IB BIOLOGY (SL2)

Grades 12

This course is designed to allow students to explore such topics as: Statistical Analysis, Chemistry of life, Cell Theory, Cellular Respiration, Photosynthesis, Genetics, Ecology, Human Health and Physiology, and Microbes and biotechnology. A total of forty hours of practical laboratory work is performed in the SL IB Bio course. Thirty of these lab hours will consist of investigative, student – directed lab work. The interdisciplinary Group Four project entails ten hours of collaborative effort where students from varying IB science courses study a scientific topic of their choice and present their data. IB SL Biology students are evaluated in two manners. Students will sit for three IB formal examinations, which comprise 76% of their final grade. These examinations or papers make up the student's external assessment and are monitored by IB. The remaining 24% or internal assessment is derived from the practical investigations or laboratory work, carried out over the year of course study. Students will also sit for classroom examinations throughout the year. All study material is approached with an international focus and course instruction is student – focused and teacher directed

63021/2 CHEMISTRY

63021/2-OL

Grades 11-12 Prerequisite: B in Algebra 1 or high math, B or better in Chem.Com, 10th Graders are eligible to take this course if enrolled in Geometry or high math

This one-year laboratory course is designed for students who have clearly demonstrated their ability and interest in science and intend to pursue a course of science studies in college. Areas of study include the metric system, scientific notation, writing of chemical symbols and formulae, molar mass relationships, stoichiometry, atomic theory, the periodic table, chemical bonding, nature of solutions, and acid-based reactions. Students will be provided with activities and laboratory experiences.

Grades 10-12 Prerequisite: B in Algebra and teacher recommendation

This course is a rigorous introduction to chemistry. This course will rely on experimental evidence as the foundation for the exploration and mastery of the following topics: atomic, molecular and ionic theory, stoichiometry, classification of chemical reactions; solids, liquids and gasses; thermo-chemistry; atomic structure and periodicity; chemical bonding; acids and bases; solutions; kinetics; chemical equilibrium; polymers; biochemistry; electrochemistry; nuclear chemistry and organic chemistry. There is a dual emphasis on chemistry related MEAP benchmarks and preparation for Advanced Placement Chemistry.

63031/2 ADVANCED PLACEMENT CHEMISTRY (Alternate Years SHS Only)

Grades 11-12 Prerequisite: B+ or better in Chemistry

Advanced Placement Chemistry is a course offered at the freshman college level. This course covers in greater depth the topics found in chemistry, with emphasis on lab work and preparation for the Advanced Placement Exam.

64011/2 PHYSICS

Grades 11-12 ***Prerequisite: C or better in Chem. and Co-requisite of Algebra 2 or better***

This course is designed for the college-bound student with a solid foundation in mathematics. Theory and laboratory experiences are divided among the following topics: Motion, force, work, energy, waves, sound, light, electricity, magnetism and atomic physics. Students will be evaluated on their performance on tests, homework, quizzes, and labs.

64001/2 PRE-AP PHYSICS (SHAT Only)

Grades 11-12 Prerequisite: 8-or better in Advanced Algebra and teacher recommendation

This course is the in-depth study of classical physics, designed to prepare the student for further college coursework in science and engineering. Students will use experimental evidence and frequent problem-solving to explore the following topics: Newtonian mechanics including universal gravitation and basic engineering principles, energy transformations in machines, properties of waves including geometric optics, electrical circuits, electromagnetism including fields and forces, and selected topics in modern physics. Students are expected to demonstrate and use advanced mathematical skills, including the regular manipulation of quadratic equations. There is a dual emphasis on physical-related MEAP benchmarks and preparation for Advanced Placement or college-level physics.

64026/7 ADVANCED PLACEMENT PHYSICS

Grade 12 ***Prerequisite: B+ or better in Honors Physics or B+ in Physics***

Advanced Placement Physics is designed for the exceptional student who has had Physics. AP Physics will cover topics found in a first-year college physics course. This course emphasizes lab work and preparation for the AP Physics exam. Evaluation is based on test and quiz performance, labs and homework. Students are expected to take the AP examination.

65050 INTRODUCTION TO CRIMINAL SCIENCE

Grades 11-12

Introduction to Criminal Science is a science course that combines the theoretical and practical applications of physical science, life science and earth science (including archaeology and anthropology). Using the theme of crime scenes, students will refine their skills of researching, critical thinking, reasoning, experimenting and reporting. Students will be provided with activities and lab experiences.

65040 ENVIRONMENTAL SCIENCE

Grades 11-12

This one-semester course is designed to introduce the student to major ecological concepts and the environmental problems which affect the world in which we live. Students will learn about technological developments which have created environmental problems as well as the technology which is helping to solve them. Areas of emphasis include issues involving energy use, air pollution and water pollution. Student performance will be based on homework, writing assignments, laboratory and group activities.

61051/2 AP ENVIRONMENTAL SCIENCE

Grades 11-12 ***Prerequisite: C or better in Chem. and Bio and B in Conservation or Environmental Science or teacher recommendation***

The goal of this one-year laboratory science class is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and man-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Topics covered include: scientific analysis, interdependence of Earth's systems, human population dynamics, renewable and non-renewable resources, environmental quality, global changes and their consequences, environmental and society, and humanity's choices for the future. This course includes both laboratory and field activities. Students enrolled in this course will be expected to take the AP Environmental Science exam in the spring.

96203/4 INTEGRATED SCIENCE

Grade 9

This is a year-long class designed to be a survey of the geo-sphere, atmosphere, space, waves and matter. Areas of study will include astronomy, meteorology, and the processes controlling the structure and evolution of the earth and its crust. Also covered will be wave properties, circuitry, and basic chemistry. Learning will be facilitated through a variety of elements including test-based and computer-based instruction, lecture, films, projects, and real-world applications. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

96207/8 PHYSICAL SCIENCE

Grades 11-12

Physical Science centers on the introductory study of matter. The course will explore the following topics: matter and energy, changes in matter, motion of objects, waves and vibrations, and electricity and magnetism. Students will be provided with activities and laboratory experiences. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

96205/6 BIOLOGY

Grade 10

Biology presents the basic facts and principles which illustrate the interrelationships among living things. Instruction will focus on the topics of cells, biochemistry, energy transformations, genetics, molecular biology, evolution, air and water pollution, and a representative survey of the five kingdoms of the living world. Students will be provided with activities and laboratory experiences. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

96201/2

Grades 9-12 PRACTICAL SCIENCE (CI)

This course is a survey of the geophysical and atmospheric sciences relating to earth science. Also, this course is a study of biology, a life science program, presenting basic facts and principles that illustrate the interrelationships among living things. Daily living skills are integrated into the curriculum to assist students with skills needed for living within a community.

SOCIAL STUDIES DEPARTMENT

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
71010	CIVICS	0.5	9	
71010-OL	CIVICS	0.5	9	
72011/2	AMERICAN HISTORY	1.0	10	
72011/2-OL	AMERICAN HISTORY	1.0	10	
72025/6	AP AMERICAN HISTORY	1.0	11	B in Pre-AP American History
74010	AMERICAN GOVERNMENT	0.5	12	
74010-OL	AMERICAN GOVERNMENT	0.5	12	
74010-OLT	AMERICAN GOVERNMENT	0.5	12	
74015/6	AP AMERICAN GOVERNMENT	1.0	12	
75020	ECONOMICS	0.5	11-12	
75020-OL	ECONOMICS	0.5	11-12	
75030	PSYCHOLOGY	0.5	11-12	
75030-OLT	PSYCHOLOGY	0.5	11-12	
75040	SOCIOLOGY	0.5	11-12	
75040-OLT	SOCIOLOGY	0.5	11-12	
76001/2	LEADERSHIP TRAINING – SSC	0.5	10-12	10-12 Recommendation
73014/5	WORLD HISTORY & GEOGRAPHY	1.0	11	
73014/5 - OL	WORLD HISTORY & GEOGRAPHY	1.0	11	
74024/5	AP HUMAN GEOGRAPHY	1.0	9	
73024/5	AP WORLD HISTORY	1.0	11	
77024	AFRICAN AMERICAN HISTORY	0.5	10-12	
92203	CIVICS	0.5	9	
92210	ECONOMICS	0.5	11	
92205/6	AMERICAN HISTORY	1.0	10	
92207	AMERICAN GOVERNMENT	0.5	12	
92204	GLOBAL ISSUES	0.5	9	

COURSE OFFERINGS

71010 CIVICS

71010– OL

Grade 9

This semester course offers the student the opportunity to explore the origins of the ideas and Core Democratic Values expressed in the Declaration of Independence, the Constitution, and other foundational documents of the United States. Particular emphasis is placed on the purposes of the federal government and how citizens organize to accomplish these purposes. The state Content Standards and Benchmarks will be an integral part of the course work as the students are prepared for the MEAP Test. Assessment will include: tests, quizzes, essays on civic topics, current event presentations, and persuasive essays.

72011/2 AMERICAN HISTORY

72011/2-OL / OLT

Grade 10

This year long course is a graduation requirement for all students. This course offers the students the opportunity to survey the major eras, issues and individuals in American History from 1900 to the present. It is designed to survey the social, economic, political and cultural forces that have shaped America's development. The state Content Standards and Benchmarks, along with the Core Democratic Values, will be an integral part of the course work as students are prepared for the MEAP Test. Assessments will include: tests, quizzes, and essays on America History, persuasive essays, timelines, 1 searches and graded group discussions.

72015/6 PRE-AP AMERICAN HISTORY

Grade 10 ***Prerequisite: B or better in Civics and Global Issues and teacher recommendation***

The objective of this course is to increase the student's understanding of the history of the United States from the Age of Discovery to present, and to prepare the student for Advanced Placement American History, an 11th grade class, in which the student's goal is to pass the AP Examination. The course is divided into two semesters, Discovery through the Civil War and Reconstruction and Gilded Age through to the present. The areas of concentration for this course include historical, political, and economic history coupled with an intense study of cultural and intellectual institutions and their development. There is required summer reading.

72025/6 AP AMERICAN HISTORY

Grade 11 ***Prerequisite: B or better in Honors American History***

This year long college level course is offered to advanced juniors and follows the Honors American History course. It offers students the opportunity to explore the major historical periods and issues of American History in a thematic way. There is an emphasis on categorization, syntheses, and analysis of historical evidence, primary and secondary historical documentary sources. It is taken in conjunction with American Literature. Particular emphasis is placed on preparation for the AP examination which will be taken in the spring. This includes major emphasis on writing for the Social Studies. The class adheres to the College Board AP History course components. Assessments will include tests, quizzes, thesis papers, persuasive essays,

timeline projects, and graded group discussion. Summer reading and a 2nd semester tern paper are required. Students are expected to take the AP exam.

74010 AMERICAN GOVERNMENT

74010-OL / OLT

Grade 12

This semester course is a requirement for graduation. The class has four goals: 1) to stimulate interest and activity in our American Government; 2) to provide essential understanding of the operations of our government; 3) to promote careful thinking about governmental problems; and 4) to encourage active participation in governmental activities. It is designed to survey the political system with emphasis on the three branches of government, civil liberties, civil rights, voting patterns and ·bureaucracy. Assessments will include test, quizzes, persuasive essays on topics relevant to American government, letters to elected officials, and graded group discussions.

74015 AP AMERICAN GOVERNMENT

Grade 12 ***Prerequisite: AP American History or teacher recommendation***

This year-long course is a college level introductory government and politics course.

This course takes an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. government and politics, as well as analyzing political relationships between people and institutions. In addition, significant institutions, group beliefs and ideas that constitute United States government and politics will be emphasized. This includes major emphasis on writing for Social Studies. The class adheres to the College Board AP US Government course components. Assessments will include the interpretation and utilization of data relevant to government and politics in sustained written arguments, multiple choice questions, and a particular emphasis placed on preparation for the AP exam. Students are expected to take the AP exam. There is required summer reading.

75020 ECONOMICS

75020-OL / OLT

Grades 11-12

This course enables students to make informed decisions about the use of scarce resources. Students become familiar with various economic systems, the stock market, the impact of government on economic activity, the interdependence of nations created by trade and the effect of choices made by individuals and households.

75030 PSYCHOLOGY

75030-OLT

Grades 11-12

This semester course is an introduction to psychological concepts dealing with the development process and the future of psychology. Topics of study will include evolution of psychology, schools of thought, and recent trends. In this course students will research human development, altered states of consciousness, stress, personality disorders and treatment. Assessments will include tests, quizzes, projects, position papers on controversial topics and scientific investigations.

75040 SOCIOLOGY

75040-OLT

Grades 11-12

This is a one-semester survey of human behavior with emphasis upon the socialization process, social groups, social stratification, collective behavior and social institutions such as family and religions.

7600112 LEADERSHIP TRAINING

Grades 10-12 (*Southfield Student Congress -SSC*)

The Student Government Leadership Training Course is designed to help students develop the ability to recognize problems, plan reasonable solutions and execute plans. Students obtain experience in peer group leadership and learn how to conduct Council meetings through the proper use of parliamentary procedure. Students are encouraged to develop leadership skills while working on school and community problems and activities, including Spirit Week, elections, dances, and general development of student policies: attendance, curriculum, discipline, etc. At the community level these problems and activities include service drives and charitable activities. Students must go through an application process to be admitted to the class.

73014/5 WORLD HISTORY & GEOGRAPHY

73014/5 – OL

Grades 11-12

World History and Geography takes a global and comparative approach to studying the world and its past to develop greater understanding of the development of worldwide events, processes, and interactions among the world's people, cultures, societies, and environment. The course will focus on the development of civilizations from ancient times throughout their evolution into the modern era. World History integrates geography and history and the content expectations are organized within historical eras and different geographic dimensions. These content expectations will ask students to study the world's history and geography through several different lenses to understand the global history most thoroughly.

73024/5 AP WORLD HISTORY & GEOGRAPHY

Grades 11-12

The purpose of the AP World course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies across time. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills (e.g. essay writing). The course highlights the nature of changes in history and their causes and consequences, as well as

comparisons among major societies. The course emphasizes relevant factual knowledge deployed in union with leading interpretive issues (secondary sources) and types of historical evidence (primary sources). The course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage. Students are expected to engage themselves throughout the year and take the AP test in May.

92205/6 AMERICAN HISTORY

Grade 10

This year long course is a graduation requirement for all students. This course offers the students the opportunity to survey the major eras, issues and individuals in American History from 1900 to the present. It is designed to survey the social, economic, political and cultural forces that have shaped America's development. The state Content Standards and Benchmarks, along with the Core Democratic Values, will be an integral part of the course work as students are prepared for the MEAP Test. Assessments will include: tests, quizzes, and essays on America History, persuasive essays, timelines, 1 searches and graded group discussions. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

92203 CIVICS

Grade 9

This semester course offers the student the opportunity to explore the origin of the ideas and Core Democratic Values expressed in the Declaration of Independence, the Constitution, and other foundational documents of the United States. Particular emphasis is placed on the purposes of the federal government and how citizens organize to accomplish these purposes. The State Content Standards and Benchmarks will be an integral part of the course work as the students are prepared for the MEAP Test. Assessment will include: tests, quizzes, essays on civic topics, current event presentations, and persuasive essays. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

92207 AMERICAN GOVERNMENT

Grade 12

This course focuses on the structure, function and processes of our government. This course has four goals: 1) to stimulate interest and activities in our government; 2) to provide essential understanding of the operations of our government; 3) to promote careful thinking about governmental problems; and 4) to encourage active participation in governmental activities. This course is required of all seniors. Assessment in this course is based on individual student achievement. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

92210 ECONOMICS

Grade 11

This course enables students to make informed decisions about the use of scarce resources. Students become familiar with various economic systems, the stock market, the impact of government on economic activity, the interdependence of nations created by trade and the effect of choices made by individuals and households.

Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

92204 GLOBAL ISSUES

Grade 9

This course offers the student an opportunity to explore the causes and importance of global issues. Through a variety of media, students will broaden their understanding of cultural stability and change, political and economic development, resource use, environmental impact, conflict and cooperation, and how they may affect the future.

SUPPORT SERVICES

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
90200/1	PRE VOCATIONAL (CI)	0.5	9-12	BusinessPlacement through Support Services
96221/2	COMMUNITY BASES VOC INST.	0.5	10-12	Moved to Business
94205/6	LOCKER ART	1.0	10-12	Moved to Business
91200	ENGLISH (CI)	1.0	9-12	Moved to ELA
91203/4	ENGLISH LANG ARTS	1.0	9-10	Moved to ELA 9th grade
91205/6	ENGLISH LANG ARTS	1.0	11-12	Moved to ELA 11th grade
91207/8	READING	1.0	9-12	Moved to ELA 9-12
91209/10	LINGUISTICS	1.0	9-12	Moved to ELA 9-12
94201/2	CONSUMER SKILLS (CI)	1.0	9-12	? Business/Life Management?
94203/4	ALGEBRA PREP	1.0	10-11	Moved to Math 10
94207/8	ALGEBRA	1.0	11-12	Moved to Math 11
94209/10	CONSUMERS MATH 1.0	1.0	9-10	Moved to Math 9-10
96207/8	PHYSICAL SCIENCE	1.0	11	Moved to Science 11
96203/4	INTEGRATED SCIENCE 9	1.0	9	Moved to Science 9
96005/6	BIOLOGY	1.0	10	Moved to Science 10
96201/2	PRACTICAL SCIENCE (CI)	1.0	9-12	Moved to Science 9-12
92201/2	COMMUNITY LIVING (CI)	1.0	9-12	? Life management ?
92203	CIVICS	0.5	9	Moved to SS 9
92205/6	AMERICAN HISTORY	1.0	10	Moved to SS 10
92210	ECONOMICS	0.5	11	Moved to SS 11
92207	AMERICAN GOVERNMENT	0.5	12	Moved to SS 12
96241/2	WORK EXPERIENCE	1.0	11-12	CTE?
96243/4	INDIVIDUALIZED VOCATIONAL	1.0	11-12	CTE?
95001	GUIDED STUDY	0.5	9-12	? RECOMMENDATION
85077	STUDY SKILLS	0.5	9-12	? ELA? RECOMMENDATION
93201/2	ADJUSTED P.E.	0.5	9-12	Moved to PE, Health, Life Mgmt
98201/2	DAILY LIVING SKILLS/HEALTH	0.5	9-12	Moved to PE, Health, Life Mgmt

GRADES 9-12

Special Education is designed to meet the needs of students with specific learning or emotional or daily living needs. To qualify for Special Education, Support Service personnel must evaluate each student. Then each student receives a modified curriculum, based on their individual academic level under the direction of

qualified teachers. Each student has an individualized program that may include special education courses and/or general education courses that meet his/her needs. REVISE ? OMIT ??

96221/2 COMMUNITY BASED VOCATIONAL INSTRUCTION

Grades 10-12

This program offers students the training to prepare them with the skills, knowledge and behaviors needed for the changing workplace. The program provides supervised, instructional, non-paid work experiences. Each student has the opportunity to participate in a variety of job stations. The students' experiences are planned so that the training will enhance their employability and career goals. This hands-on approach utilizes the employees of the site for job shadowing and role modeling exposures.

Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

NOTE-NO CLASS LISTED IN MASTER LIST FOR THIS OFFERING

94203/4 ALGEBRA PREP 1

Grades 10-11 ***Prerequisite: 8th grade recommendation, unsuccessful completion of Algebra 1***

This course helps prepare students for the formal study of algebra. It emphasizes work with fractions, decimals, percent, and abstract reasoning. This course introduces techniques for solving equations and operations with polynomials. Probability, statistics and data representation and analysis are incorporated into topics throughout the year as students use measures of central tendency to describe data. If time permits, the topics of linear measure, surface area, and volume will be included. MEAP objectives will also be incorporated throughout the year. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

MOVED TO MATH 9

94207/8 ALGEBRA 1

Grades 11-12 ***Prerequisite: 8th grade recommendation, pass Algebra Prep***

This course begins the formal study of the properties, principles, abstract reasoning, and skills of introductory algebra. Students will learn to solve linear, quadratic, and literal equations, as well as linear inequalities. They will also solve systems of linear equations. Students will solve problems using a variety of number sets including natural, whole, integer, rational and irrational. Students will represent algebraic relationships using variable expressions, graphs and tables. Operations and properties of exponents, radical and scientific notation are learned. Students will perform basic operations with polynomials and learn several factoring techniques, using them to solve quadratic equations. Statistics and data analysis are incorporated into topics throughout the year as students use measures of central tendency to describe data and algebraic expressions to model and solve real life problems. MEAP objectives will also be incorporated throughout the year. A graphing calculator is required. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

MOVED TO MATH 9

94209/10 CONSUMER MATH

Grades 9-10

The main purpose of this course is to assist students in learning how to use mathematics effectively as a tool in their personal and business lives. Emphasis is placed on the translation of mathematics into meaningful applications. After students have completed the course, they will be able to understand terminology relating to personal and business mathematics applications, apply basic math skills to the solution of both personal and business applications, and use common mathematics formulas to solve a variety of personal and business mathematics problems. A calculator is required. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.
MOVED TO MATH 9-10

91203/4 ENGLISH LANGUAGE ARTS 9-10

Grades 9-10

The course focuses on the development of the writing process, reading strategies, correct usage of Standard English, and the analysis of literature. Emphasis will be placed upon critical evaluation in reading and writing. Students will practice the skills required for writing by working with cross-textual reading questions, written response to a scenario, and reflective writing. Students will receive modifications to their curriculum and will be assessed based on individual achievement.
MOVED TO ELA 9

91205/6 ENGLISH LANGUAGE ARTS 11-12

Grades 11-12

The course continues the development of the writing process and the study of literature. The students will analyze and evaluate a variety of genre from Americas and world literature. The successful completion of a research paper is one of the composition requirements. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.
MOVED TO ELA 11

92203 CIVICS

Grade 9

This semester course offers the student the opportunity to explore the origin of the ideas and core democratic values expressed in the Declaration of Independence, the Constitution, and other foundational documents of the United States. Particular emphasis is placed on the purposes of the federal government and how citizens organize to accomplish these purposes. The State Content Standards and Benchmarks will be an integral part of the course work as the students are prepared for the MEAP Test. Assessment will include: tests, quizzes, essays on civic topics, current event presentations, and persuasive essays. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.
MOVED TO SS 9

92205/6 AMERICAN HISTORY

Grade 10

This year long course is a graduation requirement for all students. This course offers the students the opportunity to survey the major eras, issues and individuals in American History from 1900 to the present. It is designed to survey the social, economic, political and cultural forces that have shaped America's

development. The state Content Standards and Benchmarks, along with the Core Democratic Values, will be an integral part of the course work as students are prepared for the MEAP Test. Assessments will include: tests, quizzes, and essays on America History, persuasive essays, timelines, 1 search and graded group discussions. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.
MOVED TO SS 10

92210 ECONOMICS

Grade 11

This course enables students to make informed decisions about the use of scarce resources. Students become familiar with various economic systems, the stock market, the impact of government on economic activity, the interdependence of nations created by trade and the effect of choices made by individuals and households. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.
MOVED TO SS 11

73014/5 WORLD HISTORY & GEOGRAPHY

Grades 11-12

World History and Geography takes a global and comparative approach to studying the world and its past to develop greater understanding of the development of worldwide events, processes, and interactions among the world's people, cultures, societies, and environment. The course will focus on the development of civilizations from ancient times throughout their evolution into the modern era. World History integrates geography and history and the content expectations are organized within historical eras and different geographic dimensions. These content expectations will ask students to study the world's history and geography through several different lenses to understand the whole most completely. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.
SAME AS IN SS SECTION-DOES THIS NEED A 90000 SERIES NUMBER?

92207 AMERICAN GOVERNMENT

Grade 12

This course focuses on the structure, function and processes of our government. This course has four goals: 1) to stimulate interest and activities in our government; 2) to provide essential understanding of the operations of our government; 3) to promote careful thinking about governmental problems; and 4) to encourage active participation in governmental activities. This course is required of all seniors. Assessment in this course is based on individual student achievement. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.
MOVED TO SS 12

96203/4 INTEGRATED SCIENCE

Grade 9

This is a year-long class designed to be a survey of the geo-sphere, atmosphere, space, waves and matter. Areas of study will include astronomy, meteorology, and the processes controlling the structure and evolution

of the Earth and its crust. Also covered will be wave properties, circuitry, and basic chemistry. Learning will be facilitated through a variety of elements including test-based and computer-based instruction, lecture, films, projects, and real-world applications. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.
MOVED TO SCIENCE 9

96205/6 BIOLOGY

Grade 10

Biology presents the basic facts and principles which illustrate the interrelationships among living things. Instruction will focus on the topics of cells, biochemistry, energy transformations, genetics, molecular biology, evolution, air and water pollution, and a representative survey of the five kingdoms of the living world. Students will be provided with activities and laboratory experiences. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.
MOVED TO SCIENCE 10

96207/8 PHYSICAL SCIENCE

Grades 11-12

Physical Science centers on the introductory study of matter. The course will explore the following topics: matter and energy, changes in matter, motion of objects, waves and vibrations, and electricity and magnetism. Students will be provided with activities and laboratory experiences. Students will receive modifications to their curriculum and will be assessed based on individual student achievement.
MOVED TO SCIENCE 11

96241/2 WORK EXPERIENCE PROGRAM

Grades 9-12

The Work Experience Program is a school-sponsored and supervised employment program. Students are allowed to earn academic credit while employed in the community. The Work Experience Program serves as a means of acquiring desirable work habits and attitudes towards the world of work. The employment is not necessarily related to a student's career interest, and enrollment in a related vocational education program is not required. Assessment is based on individual student achievement.
Students will receive modifications to their curriculum and will be assessed based on individual student achievement.

96243/4 INDIVIDUALIZED VOCATIONAL TRAINING

Grades 11-12

Individualized Vocational Training (IVT) is a school-sponsored and supervised training program. The student is placed in the community site for the purpose of receiving vocational training. The student is not considered an employee and receives no wage. The IVT program provides students with on-the-job learning experiences that are in harmony with their interests, needs and objectives. The IVT program also promotes personal and social adjustment of the students and establishes emotional stability through a feeling of being engaged in worthwhile activity. Assessment is based on individual student achievement.

95001 GUIDED STUDY

Grades 9-12

This course provides students with academic support designed to increase achievement in their content area courses. Students receive individual and/or group assistance in developing effective study skills and building strategic reading and writing practices that will improve their knowledge and comprehension. Students will receive modifications to their curriculum and will be assesses based on individual student achievement.

93201/2 ADJUSTED PHYSICAL EDUCATION

Grades 9-12

This course involves a total body approach to cardiovascular conditioning, strength, endurance, and the development of flexibility. It teaches lifelong physical fitness skills in sports areas (volleyball, basketball, softball, tennis badminton). An individualized program also focuses on both emotional and physical development while attempting to enhance students' self-image and confidence through personal growth and development.

MOVED TO PE/HEALTH/LIFE MANAGEMENT

98201/2 DAILY LIVING SKILLS/HEALTH 1-1, 1-2

Grades 9-12

This curriculum is a multifaceted approach to educating Trainable and Educable Mentally Impaired students in a comprehensive high school setting. The curriculum includes activities of daily living, social skills and awareness, leisure and recreation, prevocational skills, health and safety, basic work skills, adjusted physical education, and Community Based Vocational Instruction. CI (EMI)

MOVED TO PE/HEALTH/LIFE MANAGEMENT

94201/2 CONSUMER SKILLS

This course is designed to provide students with daily living skills necessary for independent living. Students will develop the practical knowledge necessary to become an informed consumer. Students will be equipped with skills that will enable them to make successful purchasing decisions. Additionally, students will work to develop basic mathematical operations and computation skills.

92201/2 COMMUNITY LIVING

This course is designated to help students develop an awareness of the community in which they live and the relationships between those communities (local, state, nation and world). Students will become familiar with local community and educational services available to people with special needs. In addition, students will develop geographic and navigational skills that allow them to travel within their local communities. This course will focus on the roles and responsibilities of American citizenship.

91200 ENGLISH (CI)

This course is directed toward improving reading, writing, spelling, and language arts skills by using The Language Program!, a mastery-based curriculum. In addition, daily living skills will be included in the curriculum to assist students with reading and writing a variety of information needed to work and to live independently within the community.

MOVED TO ELA

96201/2 PRACTICAL SCIENCE

Grades 9-12

This course is a survey of the geophysical and atmospheric sciences relating to earth science. Also, this course is a study of biology, a life science program, presenting basic facts and principles that illustrate the interrelationships among living things. Daily living skills are integrated into the curriculum to assist students with skills needed for living in within a community.

MOVED TO SCIENCE 9-12

90200/1 PRE-VOCATIONAL

Students will learn skills necessary for employment that includes appropriate work habits, behaviors, and effective time management. Students will survey career opportunities and their requirements while exploring a variety of careers.

TECHNOLOGY DEPARTMENT

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
83004	DRAFTING 1	0.5	9-12	None
83005 *	DRAFTING 2	0.5	9-12	Drafting 1
83013	INTRO CAD 1			
83056/7	ELECTRO/ROBOTICS	1.0	10-12	
83074/5	ROBOTICS II/PROGRAM STEM	1.0	11-12	
83015/6	CAD ACADEMY	1.0	10-12	
83044/5	ENGINEERING TECH	1.0	10-12	
83070	Architectural Drafting	0.5	9-12	Drafting 1 **
83051/2 *	APPLIED TECHNOLOGY	0.5	9-12	None

*This course may be taken more than once for credit. **And/or recommendation.

COURSE OFFERINGS

83004 DRAFTING 1

Grades 9-12

This course is an introductory drafting course designed to give the beginning student a basic knowledge and understanding of design, engineering procedures and other related technical fields. Units of study include sketching, drafting equipment, 3-view orthographic projection, geometric construction, standard dimensioning practices, section views, and career exploration.

83005 DRAFTING 2

Grades 9-12 ***Prerequisite: Drafting 1***

This course is a continuation of the first semester course and intended for students interested in the engineering and architectural fields. Units of study include sections, pictorials, pattern developments, auxiliaries, manufacturing processes, and an introduction to working drawings.

83070 ARCHITECTURAL DRAFTING

Grades 9-12

The student will gain an appreciation of home styles, cost, and basic consumer knowledge. The units of study are principles of house planning, design techniques, alternative energy, and proper construction techniques.

83013 INTRO CAD 1

Grades 9-12

This course is designed to give beginning students a basic knowledge and understanding of design and engineering procedures and other related technical fields. The students will create drawings using basis CAD commands such as draw, move, rotate, and trim to name a few. Students will gain a working knowledge of the Cartesian coordinate system. A short introduction to 3-D drawing will also be covered.

83051/2 APPLIED TECHNOLOGY

Grades 9-12

Applied Technology is a modular classroom where students apply knowledge, tools, and information to solve technological problems. Students are assigned to different workstations throughout the semester where they will study different areas of technology such as: computer aided drafting, flight simulation, web site development, computer applications, virtual reality, digital video editing, fiber optics and lasers, electronics, digital music, computer graphics, computer applications and artificial intelligence. Students are responsible for the majority of their own learning since it is a self-guided, computer directed, and teacher facilitated approach.

OAKLAND TECHNICAL CENTER –

WILL NOTE COURSE NAME/NUMBER CHANGES WHEN APPROVED-Orange text is from Oakland Schools OSTC Course Selection Guide

Southeast Campus

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
82051/2	BIO-TECH AND ENVIRONMENTAL SCI. OTC	3	11-12	
80021/2	TRANSPORTATION TECHNOLOGY	3	11-12	
80031/2	CONSTRUCTION TECHNOLOGY	3	11-12	
80041/2	BUSINESS MANAGEMENT & MARKETING TECHNOLOGY iTEAM (formerly BMMT)	3	11-12	
80071/2	CULINARY ARTS/HOSPITALITY	3	11-12	
82071/2	HEALTH/MEDICAL TECHNOLOGY 3	3	11-12	
82061/2	ENGINEERING/MANUFACTURING	3	11-12	
82001/2	VISUAL IMAGING TECHNOLOGY 3	3	11-12	

DEPENDING ON THE OTC PROGRAM, A STUDENT MAY RECEIVE CREDIT FOR SCIENCE, MATH ETC. SEE YOUR COUNSELOR FOR MORE DETAILS.

Time of classes: 7:50 am to 10:20am

OTC-SE Campus:
5055 Delemere Avenue (north of 14 Mile road, east of Coolidge)
Royal Oak, MI 48073

All OTC programs meet the State of Michigan's Career Pathways

OAKLAND TECHNICAL CENTER (OTC)
COURSE OFFERINGS

82051/2 BIO-TECH AND ENVIRONMENTAL SCIENCE OTC 1, 2

Grades 11-12

Exposure to the areas of Animal Science, Bio-Science, Environmental Science, Design Science, Horticultural Science, Marine Science, Technology will be used involving computer skills, aquaculture, hydroponics, tissue culture, video microscope, data transmission networking (meteorology, commodities and futures trading) and the McMath-Hulbert Solar Observatory. The program will include but not be limited to: greenhouse, organic garden, schoolyard wildlife habitat, rain forest, animal laboratory, florist, poultry habitat and small business management. Learning experiences will be provided through guest lecturers, field trips, job shadowing and school to work opportunities.

Career Options Examples: Landscaper, greenhouse worker, grounds keeper, veterinary tech asst., floral shop operator. With additional training/education: marine and wildlife biologist, conservation officer, botanist,

entomologist, meteorologist, soil scientist, floral designer, greenhouse manager, turf management, naturalist and many more.

BIOTECHNOLOGY AND ENVIRONMENTAL SCIENCE

This one or two year program is designed to prepare students with the skills necessary to successfully enter one or more of the following career areas: Natural Resources Systems, Environmental Systems, Animal Systems, and Plant Systems. Agribusiness and marketing skills, customer service, and biotechnology are provided as a significant portion of all curriculum areas. Technology is a significant component of the curriculum in the areas of aquaculture, hydroponics, tissue culture, and data transmission networking (meteorology, commodities and futures trading). The curriculum also includes greenhouse, organic garden, landscape management, schoolyard wildlife habitat, rain forest, animal laboratory, floristry, poultry habitat and small business management.

- ► Plant Systems (hydroponics, tissue culture, and aquaculture)
- ► Animal Systems (including veterinary sciences)
- ► Environmental and Natural Resource Systems
- ► Agribusiness and Marketing

Career Options

Examples of careers in Biotechnology and Environmental Science may include:
Veterinary Technician
Laboratory Animal Care Technician
Biotechnological Technicians
Landscape Manager
Floral Designer
Wildlife Manager and Conservationist
Forestry
Pet Groomer

80021/2 TRANSPORTATION TECHNOLOGY

Grades 11-12

Cluster Area: Automotive Technology

In the transportation cluster students will gain core and foundation skills related to gas and diesel engine theory, basic mechanical principles, the use of computerized diagnostic tools and equipment. They will learn safety concepts, equipment operation, measuring and in addition complete an individual career development plan. In the Automotive Technology portion of the cluster, students will have the opportunity to become certified automotive technicians through study of NATEF/ASE certified curriculum. Four areas of certification are available to students: Brakes, Suspension and Steering, Electrical/Electronic Systems and Engine Performance. Two certifications can be completed each year (one each semester) with students required to test for state certification at the end of semester in their area of study. Safety, shop orientation and tools and equipment are also part of the curriculum. This program can be entered at second semester with visitation, assessment, interview and review work on safety and tools with some limitations. **Career Options Examples:** Transportation Engineer, Engine Performance Technician, Brake Mechanic, Suspension System technician, auto shop owner, auto company representative, proving ground technician, automobile technology teacher.

Cluster Area: Collision Repair Technology

A basic overview of auto body service and repair experience in ten areas: metal straightening of body panel frame and unibody, auto body welding, spray painting and refinishing, custom painting, body hardware and trim, interiors, auto glass, estimation of repair costs, antique and auto body restoration. The course prepares students for state and national certification in ASE and I-CAR. Advanced students may apply for the General Motors Academy of Oakland Schools. This is another program in which students with health concerns particularly those of respiratory problems should consider the dust and paint fumes as well as the noise factor.

Transportation Technology is an intensive technical program that is designed to prepare students with the skills necessary to successfully enter transportation careers. In this one-two year course, students gain core and foundation skills related to gas and diesel engine theory; auto collision repair and refinishing; automotive mechanical technician principles; motorcycle and marine power equipment; engine repair; and computerized diagnostic equipment. Gain competency in safety concepts, equipment operation, and measuring. Technical training competencies are based upon state/national licensing and credentialing requirements. Qualified students may test for state and national certifications. In the Transportation Technology cluster you can learn:

- ► Automotive Technology
- ► Collision Repair
- ► Light/Medium/Heavy Truck and Equipment
- ► Power Equipment

Career Options

Examples of careers in Transportation Technology may include:

Automotive Service Technician or Mechanic
Automotive Manager/Owner
Design Engineer
Original Equipment Manufacturer Support

80031/2 CONSTRUCTION TECHNOLOGY

Grades 11-12

Students will experience all phases of construction, maintenance, repair and remodeling of residential buildings and other structures. They will learn to use building materials such as metal, wood, stone, brick, glass, concrete, and composition substances. Plumbing and electrical skills are also included. Mathematics is an integral part of the program. Students will work in teams, small groups and individually. Good interpersonal skills are important for student success. The course prepares students for licensure and/or apprenticeships in the building trades industry.

Career Options Examples: All of the individual trades in building construction including but not limited to: plumbing, masonry, electrical, carpentry, rough and finish carpentry, dry wall, siding and roofing, site manager, building inspector, builder, and developer.

CONSTRUCTION TECHNOLOGY

Construction Technology is a hands-on program that prepares you with skills to enter post-secondary training such as apprenticeships, community colleges, universities or move directly into employment opportunities. Students will gain field experiences in areas such as:

- ► Building Maintenance
- ► Carpentry/Masonry
- ► Construction Management
- ► Electrical
- ► Green Building Standards
- ► Heating Ventilation Air Conditioning and Refrigeration (HVACR)
- ► Home Repair
- ► Interior/Exterior Finishing
- ► Plumbing

Career Options

Examples of careers in Construction Technology may include:

Builder
Carpenter
Construction Manager
Electrician
Mason
Plumber
Maintenance and Repair

80041/2 BUSINESS MANAGEMENT & MARKETING TECHNOLOGY

Grades 11-12

Provides a core foundation in computer related concepts. Heavy emphasis is placed on practical applications of the most current software. Skills in Computer Applications, Marketing basics, Introduction to Windows 98 and Internet basics are taught. Students will utilize competency based programs in computer applications. Upon mastery of Microsoft Word, Access, Excel, PowerPoint and FrontPage, students will be eligible to take the MOUS (Microsoft Office User Specialist) certification. State of the art equipment is provided for all students in the new computer lab. Depending upon the student's career choice, training is available in computer programming, desktop publishing, network management, web page design, A+ Hardware Certification and Network Cabling/Fiber Optics. Students will conduct career and job research along with creating a personal portfolio. Opportunity for participation in Skills USA VICA is an extra-curricular option. Students may become nationally certified in eleven different areas.

Career Option Examples: Assistant positions in administration, office specialist, computer programmer, software engineer, computer technician, network administrator, network engineer, computer sales, help desk support, management team or web design team member.

iTEAM (FORMERLY BMMT)

In the Information Technology, Entrepreneurship, Advanced Marketing (iTEAM) cluster, students learn Information Technology skills in Networking and PC Troubleshooting, Web Development, Mobile Application Development, Database Administration, and Programming. Within these career opportunities, students can earn the following certifications: Certified Internet Webmaster (CIW), Adobe Certified Expert, A+, Network+, and Microsoft Certified Professional (MCP), among others. In addition, in the Entrepreneurship and Advanced Marketing career opportunity, students learn entrepreneurship and marketing skills that provide them with the knowledge necessary to manage and run their own business. They can also participate in an online partnership with Macomb Community College; earn college credits and either a Certificate of Entrepreneurship or Information Technology. All students will have the opportunity to earn Microsoft Certified Application Specialist (2010) certifications, a Customer Service Certification, Sales Certification, and a Retail Management Certification.

Career Options

Examples of careers in iTEAM may include:

Business Manager and/or Owner
Customer Service Representative
Market Research Analyst
Computer Support Representative
Software Engineer
Helpdesk Technician
Network Administrator
Real Estate and/or Mortgage Representative
Court Reporter
Web Developer
Business Teacher, Secondary

80071/2 CULINARY ARTS/HOSPITALITY

Grades 11-12

Students in this program will experience a team – focused approach to a core curriculum of the culinary arts/hospitality industry. Topics include culinary applications in safety, sanitation, commercial kitchen equipment and hand tools. Students will operate all components of a full service restaurant catering to the public. Through training in five areas (culinary line, pantry, dining room, bake shop and snack line) students will focus on teamwork, service and problem solving skills that will transfer to occupations both within and out of the culinary/hospitality area. Students will be responsible for uniforms, sanitation and customer service. They will gain knowledge in computer skills for business, cost control, menu analysis and development, and use of a 10 key calculator.

Career Options Examples: Cashier, wait person, chef, salad chef, manager of back or front of house in restaurant, food sales, restaurant supply sales, institutional food service, caterer, dietician, and dietetic technician.

CULINARY ARTS AND HOSPITALITY

Culinary Arts/Hospitality provides students with a broad background of skills and knowledge utilizing state-of-the-art industry-based tools, equipment and technology. Become productive in a modern commercial kitchen with applications in business procedures for today's professional. Acquire training in cooking methods, food and beverage service, baking, menu design, staffing and scheduling, food preparation and financial management for a commercial food service establishment. Also receive instruction in hospitality business, markets, tourism and careers.

Areas of study include:

- ► Food Preparation
- ► Travel and Tourism
- ► Culinary Services

Career Options

Cooks, Fast Food
Culinary, Chef
Restaurant Manager/Owner
Reservations/Travel/Ticket Agent
Dietician and Nutritionist
Tour Guide

82071/2 HEALTH/MEDICAL TECHNOLOGY

Grades 11-12

Course Description: This course is designed to prepare students for a variety of careers in the health field. It begins with a "Core" curriculum that focuses on body structure and function, infection control, safety, personal qualities of a healthcare worker and health careers. A series of guest speakers from additional Career Pathways will be part of the ongoing curriculum and the opportunity for job shadowing is available. Upon completion of "core" curriculum the student selects an area of specialization. The specialization areas provide additional curriculum in the areas of: Dental Assisting, Medical Assisting, Nursing Assistant and Optical Technology.

Career Options Examples: Certified Nursing Assistant, Dental Hygienist, Dental Laboratory Technician, Dietary Technician, Emergency Medical Technician (EMT), Sports Safety Trainer, Hearing Testing Technician, Medical Laboratory Technician, Nuclear Medicine Technician, Nurse (LPN), Occupational Therapy Assistant, Radiology Technician, Ultrasound Technician, Optical Technician, Ophthalmic Dispensing, Ophthalmic Assistant.

HEALTH SCIENCES

Health Sciences is a one- or two-year program that provides students with a combination of classroom instruction and clinical experiences. Explore health careers through student research, field trips, job shadowing and internships in healthcare environments. Identify careers that match your interests, aptitude and expectations that can lead to a number of career options. Areas of study include:

- ► Diagnostic
- ► Diagnostic & Therapeutic
- ► Therapeutic
- ► Informational
- ► Environmental

Career Options

Examples of careers in Health Sciences may include:

Dental Assisting
Medical Records
Nursing
Paramedic/EMT
Pharmacy Technicians
Physical Therapists
Certified Nurse's Assistant

82061/2 ENGINEERING/MANUFACTURING TECHNOLOGY

Grades 11-12

Course Description: This course is designed to prepare the trainee for a career in manufacturing. The two-year program is designed to prepare the trainee to enter a four-year university as an engineering student, a technical school, a community college or enter directly into an employment opportunity as an apprentice, trainee or skilled worker. The trainee will first complete a core of general manufacturing technology foundational skill areas. The core foundational skills are Fluid Power (Hydraulics/Pneumatics), Design Processes (CAD), Automated Handling (Robotics), Electricity//Electronics, Quality Assurance, Manufacturing processes (Machining), and Welding Basic concepts and safety for each of these areas are taught. The subject matter is given in self-paced, computerized modules. Once the core skill areas are completed, the trainee can concentrate on a career area of their choice. Those career areas are Machine Technology, Design Processes, Engineering, Welding and Fabrication, and Manufacturing Generalist. Due to the extreme dependence of Manufacturing Technology on computerization, many areas of computer technology, including PC and networking are also learned and utilized by the trainees.

ENGINEERING/EMERGING TECHNOLOGIES

This intensive, hands-on cluster prepares students with skills to enter post-secondary institutions or move directly into employment opportunities. Learn high-tech engineering technologies like mechatronics which include virtual simulation, computerized manufacturing, rapid prototyping, and alternative energies through a variety of instructional methods and self-paced competency-based computerized modules. Learn mechatronics core foundational skills including:

- ► Design Processes (CAD)
- ► Electricity/Electronics
- ► Fluid Power (hydraulics/pneumatics)
- ► Machining/Mechanical
- ► Quality Assurance
- ► Robotics
- ► Welding/Fabrication

Career Options

Examples of careers in Engineering and Emerging Technologies may include:

Alternative Energy
Electronics Technician
CAD Drafters
Electrical and/or Mechanical Engineer
Machinist
Mechatronics Technician
Robotics Technician
Welding Technician

82001/2 VISUAL IMAGING TECHNOLOGY

Grades 11-12

Course Description: Students of the Visual Imaging Cluster will be training towards careers that communicate ideas and information to the public. This may involve screen printing, press operations and bindery, graphic layout, advertising design and marketing presentations; introduction to radio and television interactive media; and also, exposure to hands-on design illustration and computer generated 3D animation tools.

VISUAL IMAGING TECHNOLOGY

Visual Imaging provides the opportunity for students to learn skills to develop a portfolio for admission into community colleges, universities, specialized training programs, apprenticeships and/or for entry-level employment opportunities in the arts and communications fields. Discover how to plan, express, interpret ideas and solve visual problems through a variety of mediums. Areas of study may include:

- ► Audio/Video Production and Film
- ► Design and Visual Arts
- ► Graphic Communication
- ► Interactive Media/Design

Career Options

Examples of careers in Visual Imaging may include:

Illustrator or Graphic Designer
Camera/Video Editor
Multimedia designer/animator
Video Game Designer
Art Director

THE HIGH SCHOOL ACADEMIES

ARTS & COMMUNICATIONS ACADEMY

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
13035	CREATIVE WRITING	0.5	9-12	Teacher Recommendation
32013/4	DANCE 1	1.0	9-12	None
53011-4	ACTING	0.5	9-12	None
55010	INTRO TO ART	0.5	9-12	None
55030	ANIMATION	0.5	9-12	None
57076/7	PIANO 1, 2	1.0	9-10	
52010	TV PRODUCTION 1	0.5	9-12	None
52011	TV PRODUCTION 2	0.5	9-12	TV 1
52052/3	DANCE COMPANY	1.0	11-12	Teacher Approval
52054/5	DANCE TECHNIQUE	1.0	11-12	Dance 1/Audition
52058/9	ADV DANCE/TECHNIQUE	1.0	11-12	Dance Technique
53009/10	INTERMEDIATE ACTING	1.0	11-12	Acting 1 or Teacher Approval
53017/8	THEATRE ARTS	1.0	11-12	Intermediate Acting
56033/4	MUSIC THEORY/MUSIC HISTORY	1.0	11-12	
56037/8	MIDI COMPOSITION/ THEORY 1, 2	0.5	12	Instructor Approval
57080/1	INTERMEDIATE PIANO	1.0	11-12	Beginning Piano/Audition
57081	ADVANCED PIANO	1.0	11-12	
57023/4	JAZZ BAND	1.0	11-12	Performance class
53015/6	PLAN PRODUCTION	1.0	11-12	
52056/7	DISC DEV/ARTS 1	1.0	11-12	
55013/4	PORTFOLIO DEVELOPMENT	1.0	11-12	
55023/4	RESEARCH AND EXPLORATION (VISUAL ARTS)	1.0	11-12	
53090/1 53090/1-OLT	AP ART HISTORY	1.0	11-12	
55034/5	ADVANCED ANIMATION	1.0	11-12	
15021/2	ENGLISH-NEWSPAPER	1.0	11-12	
15030	PUBLICATIONS	1.0	11-12	
52022	VIDEO PRODUCTIONS LAB: CAMERA & EDITING	1.0	10-12	
52024	VIDEO PRODUCTIONS LAB: STUDIO TECH	1.0	10-12	

COURSE OFFERINGS

13035 CREATIVE WRITING

Grades 11-12

This writing course is designed for juniors and seniors who wish to focus on their creative writing skills. Students will be developing the ability to create images, people, and events through the study, discussion, and understanding of the elements and techniques used by published authors of various types of literature.

32013/4 DANCE 1

Grades 9-10

This class covers a combination of basic movement techniques: ballet, modern, jazz, and creative dance. Emphasis is on theory and practice alignment, movement isolation, rhythmic awareness and problem solving. Unitard required.

53011-4 ACTING

Grades 9-12

Acting is a survey class designed to introduce students to many acting techniques. Theater games, mime and improvisational skills are studied (utilized). Additionally, students will prepare performances for class and other schools. Field trips to view live theater will be arranged. This course may be repeated for credit.

55010 INTRO TO ART

Grades 9-12

In this course students will gain a rich understanding and a practical application of the principles of two dimensional and three dimensional art by working hands-on in a variety of media. Each project will be based on a particular style found in art history to guide the students through the various trends and movements that affect our civilization. Different techniques of drawing, painting and sculpture will be explored to provide the students with the necessary skills for self-expression. **Lab fee -$10**. This course is designed for all students regardless of previous art experiences or abilities.

55030 ANIMATION

Grades 9-12

From cartoons to time-lapse photography, animation means motion. This course will explore both film and computer animation. Planning and production steps will be covered with students working on individual and group projects. This course will also explore career and work-related opportunities as well as what is currently being done commercially in these areas. Some film costs are possible. **Lab fee -$10**

57076/7 PIANO 1, 2

Grades 9-10 ***Prerequisite: Performance Music Class and Instructor*** *Placement*

The basic fundamentals of Piano pedagogy will be covered including fingering, dynamic markings, scales, key signatures, and beginning etudes. The existing student will be able to play all selections from The Older Beginner Piano Course by James Bastien. Theory lessons from Musicianship for the Older Beginner by James Bastien will be covered.

52010 TELEVISION PRODUCTION 1

Grades 9-12

Students are introduced to the elements that make TV the post powerful communication medium in the world. The class includes survey and analysis of all elements of TV production. Students will be introduced to and trained on TV production equipment. Television productions demand teamwork between producers, talent, videographers, editors, and field/studio crews so students will be expected to develop and practice team skills.

52011 TELEVISION PRODUCTION 2

Grades 9-12 ***Prerequisite: TV 1***

Students build on knowledge acquired in TV Production 1 to develop, practice and apply skills in team work, video production and programming to create powerful television messages. Students will produce teacher-initiated projects and school announcements. Course content includes an introduction to television formats, script writing and interviewing, performance of television and news/special project production.

52052/3 DANCE COMPANY

Grades 11-12 ***Prerequisite: Instructor Approval by Audition***

This performance oriented class will utilize the students previous dance studies to create and perform choreography in concerts and various venues. Students will focus on purpose and content; discovering new music, costuming, makeup designs, lighting designs and stage terminology. Unitard required.

52054/5 DANCE TECHNIQUE

Grades 11-12 ***Prerequisite: Dance 1 with C+ or better and Audition***

This class builds on previous studies in ballet, modern, and jazz with advanced technical levels. Emphasis is on complex movement phrases. Studies will also include culture of dance, anatomy, and physiology, nutrition, and weight training. Students will also have research papers, written and practical exams. Unitard required.

52058/9 ADVANCED DANCE TECHNIQUE

Grades 11-12 ***Prerequisite: Dance Technique with C+ or better and Audition***

Taken in conjunction with Dance Company, this class offers the opportunity for students to create complex choreographic studies using motifs based on music, properties, non-literal and literal thematic materials while discovering the aesthetics of movement. "Advanced techniques in ballet, modern, and jazz will be covered. Unitard required.

53009/10 INTERMEDIATE ACTING

Grades 11-12 ***Prerequisite: Acting 1 or Instructor Approval***

Students will concentrate on scene work and be required to participate in Academy productions. Time will be devoted to Reader's Theater with presentations. This class is designed to unify the experience backgrounds of students as a prerequisite for Advanced Acting.

53017/8 **THEATRE ARTS**

Grades 11-12 ***Prerequisite: Intermediate Acting and Instructor Approval***

The history of Theater will be studied through the process of reading plays from various historical periods. Emphasis will be placed on advanced acting and directing techniques with major student projects in performance.

56033/4 **MUSIC THEORY/MUSIC HISTORY**

Grades 11-12 ***Prerequisite: Instructor Approval***

Students will learn the fundamental principles of Music Theory, including music notation, time signatures, key signatures, intervals, and construction of major, minor, augmented, and diminished chords. In the Music History phase students will survey music from the Renaissance, Baroque, Classical, Romantic, and 20th Century (including Jazz, Blues, and Gospel). Students will be required to identify characteristics of music from various periods.

56037/8 **MIDI COMPOSITION/THEORY 1, 2**

Grades 12 ***Prerequisite: Instructor Approval***

Intermediate to advanced levels in electronic music. Synthesizer use and application will be covered in detail. MIDI interface between analog instruments and digital instruments to the computer will be explored. Students will be familiar with the application of recording software, music publishing software, and effects software. At the end of the year each student will be able to record an original piece of music onto a compact disk and convert the piece to sheet music for publishing.

57080 **INTERMEDIATE PIANO**

Grades 11-12 ***Prerequisite: Beginning Piano and Instructor Approval***

Intermediate to Advanced Pedagogical skills will be developed including major and minor scale technique up to five sharps and fiats, sight reading skills, practical application of etudes and rehearsal technique. The existing student will be able to play all selections from The Older Beginner Piano Course -Level 2 by James Bastien. Theory lessons from Musicianship for the Older Beginner-Level 2 by James Bastien will be covered.

57023/4 **JAZZ BAND**

Grades 11-12

Students will study, explore, and play a variety of musical literature from the jazz and commercial (popular) music genre. Participants will receive specialized instruction in improvisation, chord structure, complex harmony, scale modes and related theory-based subjects. This class is open to students that play bass, guitar, drums & mallet percussion, piano, sax, clarinet, flute, trumpet, and trombone.

Grades 11-12 ***Prerequisite: Performance Music Class and Instructor Approval***

Jazz Band is a performance oriented class exploring various aspects of the idiom. Compositions by noted jazz artists such as Duke Ellington, Count Basie, Dizzy Gillespie, Charlie Parker, Miles Davis will be studied and

performed. Genres including Be-Bop, Swing, Fusion, and Straight Ahead will be covered. All instruments will be accepted with an emphasis on brass instruments, alto saxophones, and percussion. Attendance at extra rehearsals and performances is mandatory.

53015/6 **PLAY PRODUCTION**

Grades 11-12 ***Prerequisite: Instructor Approval***

Students will participate in all aspects of producing and performing a children's theater production. From student director to costumes, props master, set construction to stage managing, students will mount a production and tour selected schools for performances. Second semester will concentrate on One Act plays mounted entirely by students for public presentations.

52056/7 **DISC DEV/ARTS 1**

Grades 11-12 ***Prerequisite: Instructor Approval***

Students will concentrate on a particular studio discipline (Painting, Digital Imagine, etc.), building on their research and exploration class, through hands-on creative problem solving. Aesthetics and critique will play an important role in the students' understanding of their work. Students will exhibit their artwork throughout the course.

55013/4 **PORTFOLIO DEVELOPMENT**

Grades 11-12 ***Prerequisite: Beginning Art and Instructor Approval***

The success of an artist is based on the quality and presentation of their portfolio. This course is designed to prepare students for a variety of presentation formats. Recent trends and technology has broadened the way an artist portfolio is viewed. Students will learn how to create and manage their portfolios for a variety of applications. They will develop presentation skills and understand how to create specific portfolios such as book, slides, video, and multimedia.

55023/4 **RESEARCH AND EXPLORATION (Visual Arts)**

Grades 11-12 ***Prerequisite: Practical Discipline & Development and Portfolio Development***

This course is designed for students to pursue a professional level of artistic study. A significant body of work will be developed that will reflect the concentrate area of their choice. A variety of media will be explored to refine artistic skill. The partnership between the Academy and the Detroit Institute of Arts will provide students with an opportunity to experience personal visitations to the museum and participate in various special exhibitions and projects. Artists throughout the community and around the country will exhibit their work and be available for discussion through the visiting artist exhibition and lecture series held in S-L's Art Gallery. Students will assist in preparation of exhibitions and gain insight into the lives of these working artists.

53090/1 **AP ART HISTORY**

53090/1-OLT

Grades 11-12 ***Prerequisite: Practical Discipline & Development and Portfolio Development***

An overview of visual art throughout the ages will be presented in preparing the students to take the AP Art History exam. Students will also have the opportunity to refine and complete their portfolios in preparation for college entrance or career interviews.

55034/5 **ADVANCED ANIMATION**

Grades 11-12 ***Prerequisite: Animation and Instructor Approval***

Building on their practical foundation of how to design and develop animation this class will further explore the possibilities of creating storyboards, linear animation and interactive media. Special projects will include working with industry professionals and with the music department to record sound with animation. Attention will also be given to producing and preparing work to meet television broadcast quality and specifications.

15021/2 **ENGLISH -NEWSPAPER**

Grades 11-12

English-Newspaper is a course for students who are seriously interested in newspaper writing and production. The class produces a monthly school newspaper, employing proper journalistic techniques. These techniques include unbiased, accurate news coverage, useful photography and effective graphic design. Units of study include interviewing, photograph composition, feature writing, editorial writing, headline writing and proofreading. As part of the newspaper coursework, students will sell advertisements, subscriptions and individual newspapers. A large time commitment after school is required. Only one credit may apply towards meeting the English graduation requirement.

52022 **VIDEO PRODUCTIONS LAB: CAMERA/EDITING**

Grades 10-12 ***Prerequisite: Television 1 & 2***

Unlock the potential of state-of-the-art digital equipment! This class is for students who currently are enrolled, or have taken, at least one class in the video production curriculum, who have been accepted into the Arts & Communications Academy, or intend to declare television production as a Communications Academy major. Students in this class will benefit from extra time to work on or complete projects from other video productions classes, or experiment with new graphics and special effects in a supervised application of hands-on video production skills with Cannon XL-1 digital cameras and Avid editors. This class is repeatable.

52024 **VIDEO PRODUCTIONS LAB: STUDIO TECH**

Grades 10-12 ***Prerequisite: Television 1 & 2, audition***

Learn lighting; set construction, studio camera, switcher, graphics and multi-track audio techniques for television studio productions. This class is for students who currently are enrolled, or have taken, at least one class in the video production curriculum, who have been accepted into the Arts & Communications Academy, or intend to declare television production as a Communications Academy major. Students in this class will crew for studio productions involving community members and/or district staff who are taping projects for air on EDTV (the Southfield Public Schools educational cable channel) as well as other student projects. This class is repeatable.

MEDICAL & NATURAL SCIENCES ACADEMY

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
61025/6	**PRE AP BIOLOGY**		**9**	
61010/1	**BIOLOGY**		**10-12**	
63021/2	**CHEMISTRY**		**10-12**	
65013	**HEALTH SKILLS TRAINING**		**11-12**	
65015/6	**HUMAN ANATOMY & PHYSIOLOGY**		**11-12**	
65014	**HEALTH CAREER EXPLORATION**		**11-12**	
65019	**BIOTECHNOLOGY**		**12**	
61036/7	**ADVANCED PLACEMENT BIOLOGY**		**11-12**	
61041/2	**BOTANY**		**11-12**	
63031/2	**ADVANCED PLACEMENT CHEMISTRY**		**11-12**	
61051/2	**AP ENVIRONMENTAL SCIENCE**		**11-12**	

COURSE OFFERINGS

PRE-ACADEMY COURSES

61025/6 **PRE AP BIOLOGY**

Grade 9 *Prerequisite: B or better in 8th grade science and math*

This course is for the 9th grade student who has demonstrated interest and ability in science and intends to pursue science. Biology presents the basic facts and principles which illustrate the interrelationships among living things. Instruction will focus on the topics of cells, biochemistry, energy, transformations, genetics, molecular biology, evolution, and a representative survey of the five kingdoms of the living world. Students will be provided with activities and laboratory experiences.

61010/1 **BIOLOGY**

Grades 10-12

Biology presents the basic facts and principles which illustrate the interrelationships among living things. Instruction will focus on the topics of cells, biochemistry, energy, transformations, genetics, molecular biology, evolution, and a representative survey of the five kingdoms of the living world. Students will be provided with activities and lab experiences.

63021/2 **CHEMISTRY**

Grades 10-12 *Prerequisite: B in Algebra 1 or Core Plus Math 1, enrolled in AWT, AA T or higher math, B or better in Chem. Com, C or better in Bio or Earth Science*.

This one-year laboratory course is designed for students who have clearly demonstrated their ability and interest in science and intend to pursue a course of science studies in college. Areas of study include the metric system, scientific notation, writing of chemical symbols and formulae, molar mass relationships, stoichiometry, atomic theory, the periodic table, chemical bonding, nature of solutions, and acid-base reactions. Students will be provided with activities and laboratory experiences.

ACADEMY COURSES

65013 **HEALTH SKILLS TRAINING**

Grades 11-12 *Prerequisite: Academy membership*

This one-semester course will focus on the acquisition and development of essential skills necessary for employment in the healthcare field. Topics covered may include safety, first aid, emergency procedures, CPR, assessing patient vital signs, communication skills, medical terminology and professional codes of conduct.

65015/6 **HUMAN ANATOMY AND PHYSIOLOGY**

Grades 11-12 *Prerequisite: B in Biology & passed one other science course*

Human Anatomy and Physiology is a one-year introductory laboratory course designed as a foundation for students preparing for careers in health and allied health-related fields, or for those who have an interest in learning more about the structure and function of the human body in a systematic manner and in a more challenging academic setting. Recommended for students interested in careers in medicine, dentistry, veterinary science, nursing and other health-related careers.

65014 **HEALTH CAREER EXPLORATION**

Grades 11 -12 *Prerequisite: Academy membership*

This one-semester course will provide students with the opportunity to explore a variety of occupations in the health and medical fields in order to make informed choices about their future career. Attention will be given to the role of various healthcare workers, including job descriptions and responsibilities, personal characteristics, levels of education and credentialing requirements. Particular attention will be paid to current and future career trends. In addition to classroom instruction, students will be given the opportunity to interact with guest speakers and participate in field trips to healthcare facilities and universities.

65019 **BIOTECHNOLOGY**

Grade 12 *Prerequisite: C or better in Chemistry and Human Anatomy and Physiology*

This one-semester lab course will introduce students to the lab methods, procedures, and protocols used in the biotechnology and the biomedical industries. The curriculum is project-based and will integrate the student's knowledge of biology and chemistry. Topics covered will include principles of electrophoresis, DNA manipulation, molecular forensics, embryology, tissue culturing, and ethical considerations inherent in biotechnology.

61036/7 **ADVANCED PLACEMENT BIOLOGY**

Grades 11 -12 *Prerequisite: B in Biology; B in Chemistry, completed or taking Physics*

This one-year lab course is designed to be the equivalent of a college-level introductory biology course. Students may obtain college credit if they pass the Advanced Placement Exam. Topics covered include biochemistry, cells and cell processes, heredity, evolution, organisms, and populations. Students enrolled in this course will complete several research projects and will take the AP exam in the spring.

61041/2 **BOTANY**

Grades 11 -12 *Prerequisite: C or better in Biology and Chemistry*

This course is designed for students interested in taking a closer look at organisms in the Plant Kingdom. Areas of emphasis will include plant cell structure, taxonomy, physiology, exotic species, propagation techniques, plant care, introductory landscaping and environmental concerns. This course will involve hands-on work in the school greenhouse and courtyards. Students who register for this course should be prepared to work both indoors and outdoors with soil and plants. Assessment will be based on student performance in lab activities, group activities and projects, homework and maintenance of the greenhouse.

63031/2 **ADVANCED PLACEMENT CHEMISTRY**

Grades 11 -12 *Prerequisite: B+ in Chemistry*

Advanced Placement Chemistry is a one-year course offered at the freshman college level. This course covers in greater depth the topics found in chemistry, with emphasis on laboratory work and preparation for the Advanced Placement Exam. Students enrolled in this course will take the AP examination in the spring.

61051/2 **AP ENVIRONMENTAL SCIENCE**

Grades 11-12 *Prerequisite: C or better in Chem. and Bio or B in Conservation or Environmental Science or teacher recommendation*

The goal of this one-year laboratory science class is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems -both natural and man-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Topics covered include: scientific analysis, interdependence of Earth's systems, human population dynamics, renewable and non-renewable resources, environmental quality, global changes and their consequences, environment and society, and humanity's choices for the future. This course includes both laboratory and field activities. Students enrolled in this course will take the AP Environmental Science exam in the spring.

GLOBAL BUSINESS & INFORMATION TECHNOLOGY ACADEMY-SHS

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
61025/6	**PRE AP BIOLOGY**	**9**		

01010 BUSINESS MANAGEMENT & TECHNOLOGY

Grades 9-12

This one semester class satisfies the technology requirement for graduation. It includes an overview of Microsoft Office Suite, basic programming and multimedia applications. These skills are appropriate to successfully manage business operations.

01020 CONSUMER BUSINESS MANAGEMENT

Grades 9-12

This one semester course prepares students with the basic life skills necessary to become successful in their personal, collegiate, and professional lives. Students will learn a variety of business skills, including personal money management, budgeting, banking, checking accounts and income taxes. This course also covers basic employability skills such as resumes, applications, cover letters, job interviews, and professional dress. All students are invited to join BPA, a national association of business students, to develop leadership and communication skills.

02010 BUSINESS LAW 1

Grades 10-12

This course presents basic legal concepts of value to all students. Emphasis is on understanding the basic concepts of the law and applying these concepts to real-life situations. Students study the foundations of law, including criminal, civil, and juvenile systems.

02011 BUSINESS LAW 2

Grades 10-12 ***Prerequisite: Core belter in BUSINESS LAW 1***

This course is a continuation of Business Law 1. Topics such as consumer, tort, insurance, employment and contract law are included. Appropriate case studies and mock trials will be used to further explore business law.

03010 COMPUTERIZED ACCOUNTING BASICS 1

Grades 10-12 ***Prerequisite: C or Belter in Applied Business Technology 1***

This course presents an overall picture of the accounting system as well as intensive drill and skill in each detail of the work of an accountant. It provides for basic understanding of business transactions accounting records, the accounting cycle, the interpretation of the results of operations, and the principles, procedures and terminology involved. A management simulation will be completed utilizing industry standard software.

03011 COMPUTERIZED ACCOUNTING BASICS 2

Grades 10-12 ***Prerequisite: C or better in Computerized Accounting Basics 1***

This course further emphasizes the basic concepts gained in Accounting 1, providing the student with a variety of journals, ledgers, and extended worksheets with adjusting entries. It also stresses the importance of

management and decision making skills. A management simulation will be completed utilizing industry standard software.

5029 INTRODUCTION TO MARKETING 1

Grades 9-12

This initial course of Marketing is designed to provide students with an introduction to the marking process. Students learn systematic ways for identifying, understanding, and satisfying consumer and organization needs. The class focuses on free enterprise economic systems, promotion, personal selling, advertising, and publicity. Students will explore the practical application of buying motives and selling techniques. Projects and role playing are used to make the theoretical material relevant. Data interpretation and computer applications are a part of the course. All marketing students are invited to join DECA, a national association of marketing students, to develop leadership and communication skills.

05030 INTRODUCTION TO MARKETING 2

Grades 9-12 ***Prerequisite: Introduction to Marketing 1***

Investigation and analysis of the new product development process, the management of a product through its life cycle, and the importance of price variable in the product management cycle. Nature of advertising, media planning, customer service, selling techniques, buying motives, and the place and physical distribution of the marketing mix are studied. Students will explore career and marketing opportunities while developing employability skills.

ACCOUNTING AND MANAGEMENT

03016/8 CORPORATE & INTERNATIONAL BUSINESS

Grade 11 ***Prerequisite: C or better in Business Management & Technology***

This course introduces students to the corporate world of business and a wide range of career possibilities. This course provides a realistic orientation to the global corporate environment and critical functions of major departments including: Human Resources and Management; Corporate Communications; Research and Development; Marketing and Support; Finance and Accounting; Legal Services; Operations and Production Planning; and information Technology. Course includes social, cultural, political, and global economic factors of International Business.

03217 BUSINESS FINANCE 1

Grades 10-12 ***Prerequisite: C or better in Algebra Prep or Accounting 1***

This course will introduce students to the world of business finance and money management. Students will learn the fundamentals of investing, buying and selling stocks and bonds, selecting financial services and the cost of credit. They will carry out authentic financial planning activities utilizing case studies requiring students to critically analyze real-world financial scenarios, and develop their business and financial skills.

03218 BUSINESS FINANCE 2

Grades 10-12 ***Prerequisite: Business Finance 1***

This course will focus on analyzing the financial needs of a business. This will include identifying and analyzing financial statements, managing payroll and inventory, identifying required capital for business growth, determining the target profit and the break-even point. This course will give students insights into

how businesses manage their finances and why wise financial management is critical to the success of the business.

Specialized High School Programs and Courses

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NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
13035	CREATIVE WRITING	0.5	9-12	Teacher Recommendation

COURSE OFFERINGS

IB English A1 HL-

The focus of this course is a rigorous study of multicultural literature including novels, plays, poetry, and nonfiction prose. The Language A1 program is primarily a pre-university course in literature. It is aimed at students who intend to pursue literature, or related studies, at the university level, as well as at students whose formal study of literature will not continue beyond this level. Students will engage in analysis of text to understand varied writer's techniques as well as to broaden their appreciation of the common human experience. The study of literature, therefore, will be seen as a study of all the complex pursuits, anxieties, joys and fears that human beings are exposed to in the daily business of living. The focus of the literary study will be development of student critical thinking skills and development of student abilities to communicate individual thoughts in both written and oral formats.

IB Biology SL-

students will explore such topics as: Statistical Analysis, Chemistry of life, Cell Theory, Cellular Respiration, Photosynthesis, Genetics, Ecology, Human Health and Physiology, and Microbes and biotechnology. A total of forty hours of practical laboratory work is performed in the SL IB Bio course. Thirty of these lab hours will consist of investigative, student – directed lab work. The interdisciplinary Group Four project entails ten hours of collaborative effort where students from varying IB science courses study a scientific topic of their choice and present their data. IB SL Biology students are evaluated in two manners. Students will sit for three IB formal examinations, which comprise 76% of their final grade. These examinations or papers make up the student's external assessment and are monitored by IB. The remaining 24% or internal assessment is derived from the practical investigations or laboratory work, carried out over the year of course study. Students will also sit for classroom examinations throughout the year. All study material is approached with an international focus and course instruction is student – focused and teacher directed.

IB Chemistry SL-

The focus of this course is a deeper understanding of the subject of inorganic chemistry with a brief introduction to organic chemistry. This is a second year course that builds off of a basic understanding of the topics covered in a general chemistry course. It would be a beneficial class to any individual who wishes to pursue a major in science in college and/or an IB diploma or IB course certificate. The course emphasizes problem solving. The primary topics covered are atomic theory, bonding, gas laws, thermodynamics, liquid and solid states, kinetics, equilibrium, acids and bases, and electrochemistry. The course emphasizes the discussion of international understanding of chemistry in a global society. Chemistry is a global science which uses the discoveries of scientists all over the globe. All scientists are open minded risk takers. Young scientists are caring and awesome communicators. Students today use all aspects of technology to communicate with other young and old communities all over the globe. Approximately, 30-50% of class time will be devoted to laboratory activities. Students enrolled in the course prepare for a standardized examination at the end of the

school year. Students will be assessed through homework, quizzes, tests, labs, papers, and projects. In addition, students will be assessed according to the IB internal assessment and external assessment formats.

**IB Math SL-**

This course is intended for students who already possess knowledge of basic mathematical concepts, and who are equipped with the skills needed to apply simple mathematical techniques correctly. The topics studied will be: algebra, functions and equations, circular functions and trigonometry, matrices, vectors, statistics and probability, and calculus. Students will need a sound mathematical background as they prepare for future studies in subjects such as business administration, psychology, economics, and chemistry. The course focuses on introducing important mathematical concepts through the development of mathematical techniques. The intention is to introduce students to these concepts in a comprehensible and coherent way, rather than insisting on mathematical rigor. Students should, whenever possible, apply the mathematical knowledge they have acquired to solve realistic problems set in an appropriate context.

**IB Psychology HL-**

The aim of the IB Psychology (HL) course is to introduce students to a scientific and integrative examination of behavior and mental processes. Learning objectives will center around the modern levels of analysis approach (interactionist approach or bio psychosocial model), which allows students to explore the beneficial application psychological research has for humans and encourages them to appreciate the diverse methodology necessary to synthesize an intercultural understanding of psychology. Specifically, students will practice the ability to evaluate knowledge by exploring issues such as validity, reliability, credibility and certainty. Students will examine to what extent the methods of the natural sciences are applicable to human sciences. Whilst, also learning to employ cultural, ethical, and gender evaluation throughout their study of psychology.

**IB Spanish B2 SL**

Grades

The Spanish B SL course consists of two-years of IB Spanish study for the 11th and 12th grades. The focus of the course will be on intermediate level language proficiency in the areas of listening, speaking, reading, writing, and cultural awareness. Students should be able to decode and comprehend reading passages and express themselves orally and in writing in a culturally appropriate manner. International-mindedness will be spiraled into the course so that students gain a perspective of the lives of those in Spanish-speaking countries and have empathy for the lives of others. The aims and objectives are for students to acquire intermediate proficiency, with proficiency in integrating language skills and synthesizing written and aural materials, written expression, interpersonal and presentational speaking, and aural comprehension proficiency using instructor and authentic audio and video media in context. Discreet grammar will be taught systematically within the context of listening, speaking, reading and writing activities. Students are expected to become more fluent in oral communication and increase reading comprehension and more sensitive to deeper cultural aspects of the target language group(s). It is also expected that students will become more fluent in their native language by having the unique perspective of a second language.

**IB Visual Arts SL**

Grades

Visual Art Standard Level offers a diverse curriculum dedicated to expanding students' critical and aesthetic horizons. Students may choose from a variety of media, with emphasis placed on individual growth and creative expression. This course allows students to explore the elements of design and the principals of art. Students will also explore artwork from various cultures and styles, past and present. Visual Art SL students will be able to aesthetically value, produce, and appreciate works of art through culture, humanity, and history. Visual Arts SL provides students with a real aesthetic experience. Students will develop skills in

procedures, techniques, vocabulary, drawing and design. Students will be given an opportunity to experiment in various mediums and enhance creative abilities through introduction of studio works and procedures, and historical and multicultural exposure in the arts. Most importantly, students will be able to develop their own style, express thoughts, emotions, and ideas through their creative products and become life-long learners of the arts.

IB History HL (History of the Americas)

Grades

The History of the Americas course will compare the human experience of the Americas, paying particular attention to 20th century American history, with the decline of Communist rule, both in the Western and Eastern Hemispheres. Following this premise, over the course of the two years, students will compare the challenges and responses of democratic states with the origins and development of authoritarian single-party states. The focus of the junior year is the history of the United States and its emergence as a global power in the Americas, Europe and Asia. The course will concentrate on the period and events from colonialism through the post World War II Era. Although the primary curriculum will spotlight the history of the United States, comparisons and contrasts between the United States and the other countries of the Western Hemisphere will be infused as well as Asia and Europe. **The Prescribed Subject 3, The Cold War, 1960 to 1979, will be taught**.

Theory of Knowledge (TOK)

Grades

TOK is the hub or flagship of the Diploma Program. It encourages critical and analytical thinking about knowledge itself. It asks these questions, among others: What is knowledge? What are its limits? How do we know that we know? What counts as knowledge? Consequently, at the center of the course is the student as *knower*. In a metaphorical sense, the student becomes both dancer and dance. It is this philosophical fusion that makes TOK unique. The purpose of TOK activities is to help the student engage in meaningful dialogue among fellow students, as well as between student and teacher – and student and self. In this way, students' knowledge is shaped, deepened, enriched. In a very real sense, the purpose of this course is to go beyond what students think they know, to even go beyond what they want to know to a place where they "don't know that they don't know." The **Aims** of TOK are to develop awareness for the richness and power of knowledge; to understand how knowledge is constructed and experienced as learners; to experience the diversity of ways of thinking; and to encourage the responsibilities of knowing as a citizen of the world. We want our students to generate questions and hypotheses, to seek alternative solutions to knowledge-based problems, to demonstrate an ability to give a personal response to a knowledge issue, and to communicate ideas clearly and accurately, cogently.

University High School Academy Curriculum Guide

Orlando Bogins- Principal
Kelly Patterson- Assistant Principal

Course Guide Key

- All year-long courses are 1.0 credit and have a five digit course number, followed by a forward slash (/) and one additional number. For example, the year-long course number for biology is 61O10/1. This is identified in Zangle as 61010 (semester 1) and 61011 (semester 2).

- All semester-long classes are .5 credit and have only a five digit course number.

- All Integrated Seminar courses are year-long and are .5 credit. Semester 1 (.25 credit) and semester 2 (.25 credit).

University High School Academy

NUMBER	COURSE	CREDIT	GRADE	PREREQUISITES REQUIREMENTS
10031/2	HONORS 9 COMP AND LIT	1.0	9	
12011/2	HONORS 10 COMP AND LIT	1.0	10	Successful completion of Honors 9
13011/2	JUNIOR COMP AND LIT	1.0	11	Successful completion of Honors 10
13033/4	AP ENGLISH LANG AND COMP	1.0	11	Successful completion of Soph Comp
15021/2	NEWSPAPER/JOURNALISM	1.0	11-12	
14043/4	AP ENGLISH LIT AND COMP	1.0	12	Successful completion of Junior Comp and Lit or AP Lang and Comp
14011/2	SENIOR COMP AND LIT	1.0	12	Successful completion of Junior Comp and Lit or AP Lang and Comp
51010	SPEECH	.5	12	All Seniors take with American Govt
37017	PE (Physical Education)	.5	9-10	Taken with Health
37017	HEALTH	.5	9-10	Taken with PE
42001/2	ALGEBRA 1 (1.0 Credit)	1.0	8-10	Successful completion of Pre-Algebra or Eighth Grade Math
44021/2	ALGEBRA 2 WITH TRIG	1.0	9-11	Successful completion of both Algebra 1 and Geometry
43021/2	GEOMETRY 1	1.0	8-10	Successful completion of Algebra
45011/2	PRE-CALCULUS	1.0	10-12	Successful completion Algebra 2/Trig
45041/2	AP CALCULUS AB	1.0	11- 12	Successful completion of Pre-Calc
46062/3	AP STATISTICS	1.0	10 – 12	Successful completion of Geometry taken concurrently with Pre-Calculus
61010/1	BIOLOGY	1.0	9	
12021/2	CHEMISTRY	1.0	10	Successful completion of Biology
61036/7	AP BIOLOGY	1.0	10-12	Successful completion of Biology and taken concurrently with Chemistry
61051/2	AP ENVIRONMENTAL SCIENCE	1.0	11-12	Successful completion of Chemistry
64011/2	PHYSICS	1.0	11-12	Successful completion of Chemistry
63031/2	AP CHEMISTRY	1.0	11-12	"**A"** in Chemistry and successful completion of Algebra 2/Trig
64026/7	AP PHYSICS	1.0		Successful completion of Physics

COURSE OFFERINGS

English

10031/2 HONORS FRESHMAN COMPOSITION AND LITERATURE (1.0 Credit)
Grade 9
Course Description: This course is designed for high-achieving students who will be reading selections that are more challenging than those in the other ninth grade English courses. Various literary genres will be explored such as short stories, poetry, novels, plays, essays, personal narratives and self-reflective pieces. This course continues the development of the writing process from eighth grade. Students are introduced to critical evaluation in reading and writing, with the ability to evaluate a writer's message and intent, identify major devices that control tone and structure, and describe a piece of writing using an appropriate vocabulary on how the arrangement of language creates a voice. Writing is expected to be not only well-organized but also enhanced with such elements as figurative language, parallel structure, and quotations. Students should be able to recognize and appreciate the form and content of a work and determine its purpose. In addition, students will be assigned summer reading before the course begins.

12011/2 HONORS SOPHOMORE COMPOSITION AND LITERATURE (1.0 Credit)
Prerequisite: Grades 10 - Successful completion of Honors Freshman Composition
Course Description: This course is designed for high-achieving students who will be reading extensively in American and world literature. Compositions based on these readings will model not only the national tests including the English AP examination but also state examinations. Students will study the form and structure of fiction, non-fiction, drama, and poetry. This course continues the development of the writing process, which facilitates students gaining a repertoire of stylistic options; the study of literature begun in ninth grade composition skills will continue to be refined. Particular emphasis will be placed upon critical evaluation in reading and writing, with the ability to evaluate a writer's message and intent, identify major devices that control tone and structure, and describe a piece using an appropriate vocabulary on how the arrangement of language creates a voice. Students will practice the skills required for writing proficiency by working with cross-textual reading questions, written response to a scenario, and reflective writing. As they expand their technical knowledge of literacy analysis and research, students will analyze and produce, in writing and through discussion, mature prose and poetry. There is a summer reading requirement.

13011/2 JUNIOR COMPOSITION AND LITERATURE (1.0 Credit)
Prerequisite: Grade 11 - Successful completion of Honors Sophomore Composition
Course Description: In this course, an oral and participatory approach will be emphasized. A variety of resources and experiences will be used, both in and out of the classroom to assist students in developing creative and critical thinking skills. Ultimately, the focus of the classroom is for students to be able to perceive and describe themselves as writers, become avid readers and be prepared for the rigorous studies of college. Expository and vocabulary skills are stressed.

13033/4 AP ENGLISH LANGUAGE AND COMPOSITION (1.0 Credit)
Prerequisite: Grade 11 - Successful completion of Honors Sophomore Composition.
Course Description: The Advanced Placement English Language and Composition course is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts; to become skilled writers who can compose for a variety of purposes and is constructed in accordance with guidelines described in the AP English Language Course Description. This course is also taught in conjunction with American Literature. In addition, by the students writing and reading in this course, they should become aware of the interactions among writer's purposes, audience expectations, and diverse genres, as well as the

way generic conventions and the resources and language contribute to effective writing. The college composition course that the AP English Language and Composition course is intended to parallel is one of the most varied in the curriculum. The college course often allows students to write in a variety of forms: narrative, exploratory, expository, argumentative, and on a variety of subjects from personal experiences to public policies, from imaginative literature to popular culture. However, the main objective in most first year writing courses is to enable students to write effectively and confidently in all their college courses and in their professional lives. Therefore, most composition courses emphasize the expository, analytical, and argumentative writing that forms the basis of academic and professional communication, as well as the personal and reflective writing that fosters the ability to write in any context. As in the college writing course, the purpose of the AP English Language and Composition course is to enable students to read complex texts with understanding and to write prose that is rich and complex for mature readers and to do well on the AP exam. In addition, there is study on the rhetoric of visual media such as photographs, films, advertisements, comic strips, and music videos. In concert with the College Board's *AP English Course Description*, this course teaches "students to read primary and secondary sources carefully, to synthesize material from these texts in their own compositions, and to cite sources using conventions recommended by professional organizations such as the Modern Language Association (MLA)". AP rubrics are used as the guiding standard by which a student's performance is evaluated. The class concludes with a college level exam, prepared by the College Board, which if passed, may result in college credit.

15021/2 NEWSPAPER/JOURNALISM (1.0 Credit)

Prerequisite: Grades 11- 12

Course Description: This course is designed for students with a love of writing. Classroom instruction is centered on developing journalistic writing, objective style, and teaching design, layout, and editing skills. Students are responsible for producing the school newspaper with approximately one issue every card-marking. Once the instructor has covered the basics of journalism, the class is run like a real newsroom and is primarily student-directed. Students will create printed and online issues of the newspaper. The second major component of the class is creation and publication of the UHSA Yearbook: *Aquila*. Students will function as staff members and learn various aspects of the yearbook publication process such as layout and design, copywriting, photography, budget and finance, and promotion and publicity. The book is built on-line and published in hardback at the end of the second semester. During both semesters, students are responsible for producing complete layouts in order to meet publication deadlines.

14043/4 AP ENGLISH LITERATURE & COMPOSITION (1.0 Credit)

Prerequisite: Grade 12 - Successful completion of Junior Composition & Lit or AP Lang & Comp.

Course Description: Advanced Placement English Literature and Composition is designed as a college-level course. As such, and in full compliance with the curricular requirements and goals described in the *AP English Literature and Composition Course Description*, students embark on a rigorous journey of intense reading and writing. Students will participate in close, active reading of a variety of texts and genres from various time periods. Students are expected to analyze numerous texts for deeper meaning and understanding as well as to interpret the historical and social contexts of the writing. Writing assignments are frequent and deliberate. Students are required to analyze and interpret class texts in their writing, but will also be expected to produce argumentative, persuasive, and expository essays. Students will also learn how to critically analyze poetry and to create clear and coherent essays. AP rubrics are used as the guiding standard by which student performance is evaluated. A research paper is required, and students must carefully cite their sources in MLA form. Ultimately, the literature-based writings, study of literary genres, poetry, and grammar, and close readings are all designed to prepare students for the AP English Literature and Composition Exam in May. Students will also write daily in their journals, be expected to participate in class discussions, and complete mini lessons throughout the course, ranging from grammar to sentence composition.

14011/2 SENIOR COMPOSITION AND LITERATURE (1.0 Credit)

Prerequisite: Grade 12 - Successful completion of Junior Composition and Literature or AP Lang & Comp.
Course Description: This course is intended for academically capable students who are willing to accept a challenge. Students who are enrolled in this class and who complete the requirements of the course will be prepared to perform successfully in college and in the workplace in the areas of writing, speaking, and reading. During this course, students will read and analyze major works of English and world literature. Students will examine important literary works from a variety of literary genres including the following: poetry, essay, short story, novel, and drama. The works will cover a time span ranging from ancient to modern. Students will write compositions based on the assigned readings. Students will be prepared to meet challenges of college impromptu essay writing. Logical development of thought in oral and written assignments as well as in class discussions will be emphasized. Both in and out of class essays should evidence higher order thinking skills. Students should be able to order their ideas in a logical pattern. They should be able to develop ideas using valid details that are pertinent and supportive to their thesis or to their discussion. Ideas must be communicated with tact, clarity, and fluency. Utilization of good diction and correct grammar and logical organization is expected in written and spoken communication.

51010 SPEECH (.5 Credit)
Prerequisite: Grade-12 (all seniors will automatically be placed in this course to complement American government)
Course Description: This fundamental course in Speech will help the student gain self-confidence through various types of communication activities including Public Speaking, Interviewing, Discussion, Oral Interpretation, Interpersonal Communication and Nonverbal Communication. Speaking, writing, outlining, research techniques, reading and listening skills will be stressed. This course is strongly suggested for every student, as good communication skills are essential.

Health / Physical Education

37017 PE (Physical Education) (.5 Credit)
Prerequisite: Grades 9-10 Taken with Health (11- 12 grades may take it only if not taken before)
Course Description: Physical education, when planned and taught properly is "education through the physical." Physical education focuses on the teaching of skills, the acquisition of knowledge, and the development of attitudes through movement. This is the goal of the Physical Education Department. We also want students to have fun!!

37017 HEALTH (.5 Credit)
Prerequisite: Grades 9 -10 Taken with PE (11- 12 grades may take it only if not taken before)
Course Description: Course goal is to lay the foundation for modifying lifestyles of students in ways that will improve, promote and maintain personal, family and community health status. This curriculum is, also, designed to help students develop refusal skills to help them avoid dangerous high risk behaviors and to promote better use of the healthcare system.

Mathematics

42001/2 ALGEBRA 1 (1.0 Credit)
Prerequisite: Grades 8 -10 – Successful completion of Pre-Algebra or eighth grade math
Course Description: This course begins the formal study of the properties, principles, abstract reasoning, and skills of introductory algebra. Students will learn to solve linear, quadratic, and literal equations, as well as linear inequalities. They will also solve systems of linear equations. Students will solve problems using a variety of number sets including natural, whole, integer, rational and irrational. Students will represent algebraic relationships using variable expressions, graphs and tables. Operations and properties of

exponents, radical and scientific notation are learned along with exposure to logarithmic and power functions. Students will perform basic operations with polynomials and learn several factoring techniques, using them to solve quadratic equations. MME/ACT objectives will also be incorporated throughout the year. A graphing calculator is recommended.
Goals: Students will learn to use Algebra as a tool to solve problems and represent relationships - problem solving techniques and make connections between algebraic and geometric representations of mathematical concepts - a graphic calculator to enhance the study of functions as well as statistics and data analysis. Success will be measured by the students' proficiency with variables and ability to use the skills of algebra to solve problems.

44021/2 ALGEBRA 2 WITH TRIGONOMETRY (1.0 Credit)

Prerequisite: Grades 9-11- Successful completion of both Algebra 1 and Geometry.

Course Description: This course integrates algebra and trigonometry and is a preparation for Pre-Calculus. The course includes a rigorous pace and introduces multiple problem solving techniques. The course strengthens and expands the techniques of Algebra 1. Included topics are an in depth presentation to the complex number system, polynomials (operations and factoring), linear equations and inequalities, systems of equations, coordinate geometry, the quadratic function, and real exponents. Right triangle trigonometry, exponential and logarithmic functions, conic sections and sequences and series will be covered. MME/ACT objectives will also be incorporated throughout the year. A graphing calculator is required.

43021/2 GEOMETRY 1 (1.0 Credit)

Prerequisite: Grades 8 -10 – Successful completion of Algebra

Course Description: This is a geometry course designed to introduce students to the study of figures in two and three dimensions. It is based on geometric principles generated by definitions, postulates and theorems. The course provides students with the information and skills to write simple deductive proofs and understand geometric relationships. Students will apply principles to make and test conjectures. Students will gain an understanding of geometric relationships. Statistics and data analysis are incorporated into topics throughout the year as students use measures of central tendency to describe data and algebraic expressions to model and solve real life problems. MME/ACT objectives will also be incorporated throughout the year.

45011/2 PRE-CALCULUS (1.0 Credit)

Prerequisite: Grades 10-12- Successful completion of Algebra 2/Trig

Course Description: This course develops advanced topics in mathematics in preparation for the calculus courses offered in high school or in college. The use of models in making connections between related ideas and real world applications is stressed. Topics include analysis of various types of functions (linear, quadratic, rational, circular, logarithmic, and exponential), limits, and solving systems of equations using a variety of methods. Students are expected to use transformations for graphing the functions mentioned above. Other topics include continuity, end behavior, maxima and minima, composition of functions, inverses, and exponential, logarithmic and trigonometric functions. Complex numbers as well as conics are also investigated. If time permits, this course concludes with work on infinite sequences and series, the sum of infinite series and an introduction to the concept of derivative. A graphing calculator is required.

45041/2 AP CALCULUS AB (1.0 Credit)

Prerequisite: Grades 11- 12 - Successful completion of Pre-Calculus

Course Description: This course is designed for students who have shown exceptional ability and interest in mathematics. This course, together with Introduction to Calculus, prepares students for the Calculus AB Advanced Placement Exam. This course follows the syllabus prepared by the College Entrance Examination Board for Advanced Placement Mathematics. Both differential and integral calculus and a variety of their applications are included. Full use of the T1-82, 83, 84, 86, or 89 graphic calculator is assumed.

46062/3 AP STATISTICS (1.0 Credit)
Prerequisite: Grades 10 - 12 - Successful completion of Geometry and taken concurrently with Pre-Calculus
Course Description: Statistics is the study of data. Students will collect, organize and analyze data. They will predict outcomes from their analysis and test the validity of their predictions. The course includes writing and problem solving as well as the preparation and presentation of projects that use statistical methods. A graphing calculator, T1-83 or T1-84 will be required for the course. NOTE: colleges and universities do not always recognize statistics as a fourth year of high school mathematics

Science

61010/1 BIOLOGY (1.0 Credit)
Prerequisite: Grade 9
Course Description: Biology is a yearlong course designed to cover the components of living organisms on our planet. This course provides students with the opportunity to explore components of living organisms, genetics, genetic disorders, evolutionary trends, predator-prey relationships, criminalistics, and dissection. Learning will be facilitated through a variety of elements including text-based and computer-based instruction, lectures, films, hands-on activities, interactive media, projects, and real-world applications.

12021/2 CHEMISTRY (1.0 Credit)
Prerequisite: Grade 10 - Successful completion of Biology
Course Description: This one-year laboratory course is designed to establish a firm foundation in the fundamental principles of chemistry, while exploring how chemists attempt to solve problems and how the chemical aspects of their environment interact and can be controlled to benefit their daily lives. This course is intended for students who have clearly demonstrated their ability and interest in science. This course is for students who are determined to pursue a course of science studies in college. Areas of study will include the metric system, scientific notation, writing of chemical symbols and formulas, molar and mass relationships, stoichiometry, atomic theory, the periodic table, chemical bonding, kinetic theory, nature of solutions, as well as acid and base reactions. Learning will be facilitated by laboratory and independent problem-solving activities, teacher demonstrations, technological models and explorations, lectures and discussions, text and supplementary readings, and homework experiences. Students will be guided through critical thought processes and will use these skills to solve problems.

61036/7 AP BIOLOGY (1.0 Credit)
Prerequisite: Grades 10 - 12 - Successful completion of Biology and taken concurrently with Chemistry
Course Description: This course is designed to cover fundamental topics in cell biology, evolution, molecular genetics, biochemistry, cellular energetics, and ecology. In addition to gaining an understanding of these topics and their overarching themes, students will also learn how to evaluate scientific research and design experiments. In order to excel in this course and on the advanced placement exam, students will have to be able to relate the topics covered according to the major themes in biology with emphasis on evolution. In order to facilitate this, the eight major themes from the *AP Biology Course Description* (science as process; evolution; energy transfer; continuity and change; structure and function; regulation; interdependence; and science, technology and nature) are stressed throughout the course. In particular, evidence of evolution is employed as a unifying theme across topics. The rigors of this advanced placement course require daily

reading, writing and review of course materials by practicing, comprehending and synthesizing topics. Students will be expected to produce evidence of learning through lab reports, essays, presentations and other investigative experiences.

61051/2 AP ENVIRONMENTAL SCIENCE (1.0 Credit)

Prerequisite: Grades 11- 12 - Successful completion of Chemistry

Course Description: Students will explore and investigate the interrelationships of the natural world, identify and analyze environmental problems, both natural and human-made, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving and/or preventing them. Students will also participate in hands-on, laboratory and field investigations to apply scientific principles, concepts, and methodologies in order to better understand our natural systems and to critically think about environmental issues and potential solutions.

64011/2 PHYSICS (1.0 Credit)

Prerequisite: Grade 11 -12 - Successful completion of Chemistry

Course Description: Physics is the branch of science which studies the relationships between mater and energy. It provides a systematic understanding of the fundamental laws that govern physical, chemical, and biological processes. Topics that are discussed in this course will include: mechanics, motion, thermodynamics, wave phenomena, optics, electricity, magnetisms, atomic structure, relativity, and how these principles affect our society and the world as a whole. A knowledge and understanding of the principals of physics not only leads to a profound understanding of the physical world, but also supplies the student with the insight to develop new and innovative ideas. This Physics course is designed to: instruct students in foundational physics concepts and prepare students to exist in an increasingly technological society, develop the students' analytical, problem solving, and laboratory skills; and integrate math, science and technology. This course fulfills the 4th year math graduation requirement.

63031/2 AP CHEMISTRY (1.0 Credit)

Prerequisite: Grades 11- 12 –**"A"** in Chemistry and successful completion of Algebra 2/Trig

Course Description: AP Chemistry is the branch of science which studies the relationships between all matter. It provides a systematic understanding of the fundamental laws that govern physical, chemical, and biological processes. Topics that are discussed in this course will include: stoichiometry, thermodynamics, wave phenomena, atomic structure, and how these principles affect our society and the world as a whole. A knowledge and understanding of the principles of chemistry not only leads to a profound understanding of the physical world, but also supplies the student with the insight to develop new and innovative ideas.

64026/7 AP PHYSICS (1.0 Credit)

Prerequisite: Grades 12 - Successful completion of Physics

Course Description: AP Physics is a college level course providing an introduction to the main principles of Physics and emphasizing the development of problem solving ability. The course will cover Newtonian and fluid mechanics, electricity and magnetism, waves and optics, and thermal, atomic and nuclear physics. AP Physics is generally open to seniors who have completed one year of physics. Knowledge of algebra and basic trigonometry is required for this course. AP Physics meets five days a week for 52 minutes in addition to extended lab and review sessions as needed (23 hours during seminar). Students are encouraged to work with peers and/or tutors in completing homework and studying course material. This course fulfills the 4th year math graduation requirement.

Integrated STEAM^2
Science/Technology/Engineering/Arts/Math$^{(Medical)}$

UHSA students will be scheduled for two years of STEAM^2 or two years of AP

01057/8 STEM APPLICATIONS (1.0 Credit)

Prerequisite: Grades 9-11

Course Description: This project-based course is to develop and enhance students' critical thinking skills through science, technology, engineering, and mathematics. Students will develop and improve their cooperative skills and teamwork through group assignments and interactions. It is based on scientific and mathematical principles generated by definitions, postulates, theorems, investigations, and self-discovery. Students will use their creativity and critical thinking skills to solve real world scientific and mathematic problems. Students will research the effectiveness and practicality of their ideas to test and express their ideas both written and verbally. The course ultimately provides students with the information and sills to invent, test, manufacture and market their ideas. The STEM series fulfills the Fine/Applied Arts and 4th year math graduation requirement.

Students will develop the ability to:

- Demonstrate the concepts and methods of deductive reasoning.
- Become familiar with strategies that are useful in solving problems.
- Continue to develop problem-solving skills making and supporting conjectures.
- Express scientific ideas and support conjectures effectively, both verbally and written.
- Create and redesign three dimensional products with aesthetic value.
- Continue to improve cooperative skills and teamwork through group assignments and interactions.

This course requires the extensive use of computers and online resources. Computer programs include, but are not limited to the following:

- Microsoft Office (Word, Excel, PowerPoint)
- Movie Maker
- Sketchup
- Blender
- Endorphin (Natural Motion)
- Game Maker

83056/7 ROBOTICS I/II (1.0 Credit)

Prerequisite: Grades 10 -12 Successful completion of STEM Applications

Course Description: This is a project-based course designed to introduce students to the study of robotics. Students will be introduced to the process of developing, building and modification of robots. Students will use their creativity to solve problems. Students will test their ideas in real world situations. Students will use statistics and data analysis and algebraic expressions to model and describe real life problems. Students will research the effectiveness and practicality of their ideas. The students will learn simple C programming. The students will also reinforce Algebra and Geometry concepts by analyzing and measuring robot performance and structure. The course also introduces and develops key Physics concepts such as gears, forces, velocity, acceleration and friction. The course ultimately provides students with the information and skills to invent, test, manufacture and market their ideas. Students will also be competing in OCCRA. The STEM series fulfills the Fine/Applied Arts and 4th year math graduation requirement.

83074 ROBOTICS II / PROGRAMING (.5 Credit)

Prerequisite: Grades 11-12 Successful completion of Robotics I (Methods in Engineering is taken the following semester)

Course Description: This is a project-based course designed to introduce second year Robotics students to the study of robotics. Students will be introduced to the process of developing, building and modification and autonomous programming of robots. Students will use their creativity to solve problems. Students will test their ideas in real world situations. Students will use statistics and data analysis and algebraic expressions to model and describe real life problems. Students will research the effectiveness and practicality of their ideas. The students will learn simple C programming. The students will also reinforce Algebra and Geometry concepts by analyzing and measuring robot performance and structure. The course also reinforces key Physics concepts such as gears, forces, velocity, acceleration and friction. The course ultimately provides students with the information and skills to solve robotic based problems. Participation in OCCRA is required. The STEM series fulfills the Fine/Applied Arts and 4th year math graduation requirement.

83060 3D IMAGING/RENDERING/1 (1.0 Credit)

Prerequisite: Grades 11-12 Successful completion of STEM Applications

Course Description: 3D Imaging and Rendering is the branch of computer engineering science which studies the development of computer generated images. It provides a systematic understanding of the fundamental ideas that govern computer based imaging. Topics that are discussed in this course will include: rendering, research and development, animation, geometries, and general computer knowledge. A knowledge and understanding of the principles of imaging not only leads to a profound understanding of the physical world, but also supplies the student with the insight to develop new and innovative ideas. The STEM series fulfills the Fine/Applied Arts and 4th year math graduation requirement.

47050 METHODS IN ENGINEERING RESEARCH (.5 Credit)

Prerequisite: Grades 10 -12 Successful completion of STEM Applications(taken the semester after Robotics 2)

Course Description: Operations Research is mathematic instruction using Decision Science and engineering tools to solve problems. The class analyzes a series of real-world problems making mathematics more relevant. The deterministic nature of the class includes linear programming, critical path method, facility location problems, transportation problems, and multi-criterion decision making. These concepts help to develop and further the student's mathematical and problem solving level. The student will also gain knowledge in using Microsoft Excel to solve these problems. Concepts from Pre-Algebra thru Calculus are discussed. The course fulfills the 4th-year math graduation requirement.

65025 MEDICAL TERMINOLOGY (.5 Credit)

Prerequisite: Grades 11 – 12 Successful completion of Chemistry. Taken with Microbiology

Course Description:- The purpose of this course to equip students with the basic knowledge needed to better understand concepts in the Anatomy and Physiology (A&P) course. This course will allow students to study the etymology of words used to describe the human body and the proper terminology and spelling for major pathological conditions that are introduced in A&P. It would be an excellent prerequisite course to improve student performance in A&P. Furthermore, due to the fact that there is an increase in job availability within the health care and pharmaceutical industries, this course will equip students with the basic knowledge needed, if they desire to pursue health care and/or pharmaceutical programs at the university level. The course will enable students to:

- Describe the fundamental word elements used to build medical terms.
- Identify and give the meaning of selected prefixes that pertain to position or placement, number and amounts, and those that are descriptive and used in general.
- Identify and give the meaning of selected suffixes that pertain to pathologic conditions, those used in diagnostic and surgical procedures, and those that are used in general.
- Analyze, build, spell, and pronounce selected medical words.

- List and define the levels of organization of the human body in sequence from most complex to simplest.
- Use medical words and phrases correctly in written and verbal communication.
- Analyze case studies that reflect the pathologic/medical conditions

61032 MICROBIOLOGY (.5 Credit)

Prerequisite: Grades 10 - 12 Successful completion of Chemistry. Taken with Medical Terminology

Course Description: The purpose of this course is for students to study bacteria, viruses and other microbes. Included are identification techniques, microbial infections, immunology, growth and control, an overview of those microbes important to man, and modern issues. This course will equip students with the basic knowledge needed, if they desire to pursue medical technology, health care and/or pharmaceutical programs at the university level. The course will enable students to:

- develop a sufficient background for those students who wish to study more advanced topics
- provide familiarity with basic microbiological laboratory techniques
- aid the development of the ability to think scientifically and to evaluate information critically
- provide an understanding of the role of microbes in disease transmission and prevention
- provide familiarity with important laboratory safety guidelines
- improve public speaking and scientific writing skills through research reports, presentations, and discussions

63060/1 STEAM^2 LAB (1.0 Credit)

Prerequisite: Grade 10- Students will automatically be placed in this course based on teacher recommendation.

Course Description: this lab is designed to provide additional support for 10th grade students in STEAM^2 related courses. Chemistry, geometry, and algebra 2/trig course materials will be infused into this course. Students will automatically be placed in this course based on teacher recommendation.

Social Studies

72011/2 U.S. HISTORY (1.0 Credit)

Prerequisite: Grades 9 -10

Course Description: United States History provides a general survey course of the social, economic, and political forces that have shaped this nation. The first semester begins with the Industrial Revolution and ends at the start of the Second World War. Semester 2 covers 1941 to the present. Students will learn to assess and interpret historical materials, both primary and secondary sources—their relevance to a given problem, their reliability, and their importance. Students will weigh the evidence, decipher the meaning, and evaluate its place in the larger scope of history. The course also focuses on encouraging students to apply knowledge and skills to new ways. Analysis, synthesis, and application of advanced essay writing are also utilized.

72025/6 AP U.S. HISTORY (1.0 Credit)

Prerequisite: Grades 10 - 12 - Successful completion of American History

Course Description: The AP program in United States History is designed to provide students with the analytical skills and enduring understandings necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials-their relevance to a given interpretive problem, their reliability and

their importance-and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format.

73014/5 WORLD HISTORY & GEOGRAPHY (1.0 Credit)

Prerequisite: Grades 10 - 11 - Successful completion of American History

Course Description: World History and Geography takes a global and comparative approach to studying the world and its past to develop greater understanding of the development of worldwide events, processes, and interactions among the world's people, cultures, societies, and environment. The course will focus on the development of civilizations from ancient times throughout their evolution into the modern era. World History integrates geography and history and the content expectations are organized within historical eras and different geographic dimensions. These content expectations will ask students to study the world's history and geography through several different lenses to understand the whole most completely

73024/5 AP WORLD HISTORY (1.0 Credit)

Prerequisite: Grades 10 - 11 - Successful completion of American History

Course Description: The purpose of the AP World course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies across time. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills (e.g. essay writing). The course highlights the nature of changes in history and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in union with leading interpretive issues (secondary sources) and types of historical evidence (primary sources). The course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage. Students are expected to engage themselves throughout the year and take the AP test in May.

75030-OLT AP PSYCHOLOGY (online) (.5 Credit)

Prerequisite: Grades 11 - 12 - *Online courses require a high level of maturity and self-discipline

This course is a survey of psychology that introduces students to the major topics of the field, the terminology and methodology of psychology, and the historical and current understanding of human behavior and thought-processes. Students learn to analyze human experiences like psychologists do and to apply what they have learned to the world around them. The focus of the course is to prepare students to take the Advanced Placement Psychology course administered by the College Board in the spring of each year.

74010 GOVERNMENT (.5 Credit)

Prerequisite: Grade 12- taken concurrently with speech

Course Description: United States Government will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret the political process and the analysis of specific examples such as voting. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. The concepts and duties of citizenship will also be applied.

World Languages

25011/2 MANDARIN CHINESE 1 (1.0 Credit)

Prerequisite: Grades 8- 10

Course Description: The objective of this course is to establish a foundation of Chinese in four language skills (listening, speaking, reading and writing). Students learn to use the language meaningfully and begin to develop the facility to communicate in the context of the Chinese-speaking world. Basic grammar and vocabulary are taught in terms of function and application to real-life situations. Students listen to tapes recorded by native speakers, participate in daily speaking and listening activities, and write simple, guided sentences. Using the Chinese dictionary and typing Chinese with a computer will also be introduced so that students become self-learners throughout their lives.

25021/2 MANDARIN CHINESE 2 (1.0 Credit)

Prerequisite: Grades 10 - 12 - Successful completion of Mandarin Chinese 1

Course Description: This course is a continuation of the development of the four language skills of Chinese: listening, speaking, reading and writing. Students will gain the language and cultural knowledge through more complex themes and topics. Some selected readings are studied for increasing comprehension. Writing practice is limited to structural drills and some short compositions with specific criteria for structure and content. Speaking skills are practiced daily in class discussions and prepared conversations. Students will be able to express themselves and understand others in increasingly complex situations.

25031/2 MANDARIN CHINESE 3 (1.0 Credit)

Prerequisite: Grades 10 - 12 - Successful completion of Mandarin Chinese 2

Course Description: This course establishes a higher level of study of Chinese in the four language skills: listening, speaking, reading and writing. Students learn to produce correct sentences, write in paragraphs, create cohesive discourse, and express themselves. Students will read varieties of authentic materials including magazines, newspapers, short stories and other pertinent passages of literature and general interests. Students will gain extensive Chinese cultural knowledge, and acquire cross-cultural awareness and international perspectives.

21011/2 SPANISH 1 (1.0 Credit)

Prerequisite: Grades 8 -10

Course Description: This course is an introduction to the language and its culture. It establishes a foundation of the Spanish language in the four skills: listening, reading, writing, and speaking. Students will be able to express themselves, understand others and function in simple everyday situations. Basic grammar and vocabulary are taught using the communicative approach and structural analysis. Students listen to recordings by native speakers, participate in daily speaking and listening activities, and write simple, guided sentences.

21021/2 SPANISH 2 (1.0 Credit)

Prerequisite: Grades 10 -12 Successful completion of Spanish I

Course Description: This course is a continuation of the development of the four language skills, listening, reading, writing, and speaking. Listening skills are developed through prepared listening activities, songs, and increased use of the target language in the classroom. Theme-based, culturally authentic reading selections are presented for increasing comprehension while practicing new vocabulary and grammar. Writing practice is limited to structural drills and short paragraphs with specific criteria for structure and content. Speaking skills are practiced daily in prepared dialogues and spontaneous conversations. Vocabulary and grammar are presented visually and in a meaningful context using a wide range of technology tools. Students will gain

cultural knowledge that result in the appreciation and understanding of the differences between other cultures and their own.

21031/2 SPANISH 3 (1.0 Credit)
Prerequisite: Grades 10 -12 Successful completion of Spanish 2
Course Description: This course is an expansion of the four language skills: listening, reading, writing, and speaking. Listening skills are developed through prepared listening activities, songs, and increased use of the target language in the classroom. Theme-based, culturally authentic reading selections are presented for increasing comprehension while practicing new vocabulary and grammar. Writing practice includes structural drills and short essays with specific criteria for content, structure and organization. Speaking skills are practiced daily in prepared dialogues and spontaneous conversations. More complex grammatical structures are studied and cultural practices and perspectives are further explored.

21041/2 SPANISH 4 (1.0 Credit)
Prerequisite: Grades 10 - 12 Successful completion of Spanish 3
Course Description: This is an intensive course of the most advanced grammatical concepts in the Spanish language. Listening, reading, writing, and speaking skills will improve as the themes, topics and language become more complex. Listening skills are developed through complex listening activities, incorporating a variety of media tools, such as songs, video clips, news reports, and increased use of the target language in the classroom. Theme-based, culturally authentic reading selections are presented for increasing comprehension while practicing new vocabulary and grammar. Writing practice includes essays with specific criteria for content, structure, and organization with a focus on advanced language skills. Speaking skills will further develop through frequent oral presentations based on current events and selected readings. Cultural knowledge and understanding continues to be a focal point as part of the language learning experience.

21061/2-OTL AP SPANISH (online) (1.0 Credit)
Prerequisite: Grades 10 -12 - Successful completion of Spanish 4
Course Description: This course will help prepare students to demonstrate their level of Spanish proficiency across three communicative modes (Interpersonal [interactive communication], Interpretive [receptive communication], and Presentational [productive communication]), and the five goal areas outlined in the Standards for Foreign Language Learning in the 21st Century (Communication, Cultures, Connections, Comparisons, and Communities). These standards aim to develop students “who are linguistically and culturally equipped to communicate successfully in a pluralistic American society and abroad.” In other words, “Knowing how, when, and why to say what to whom.” In doing so, the AP Spanish course will have at its foundation instructional content and practices that will connect students with the world in an authentic context that develops and yields communicative competence.

Visual & Performing Arts

73024 AP ART HISTORY (1.0 Credit)
Prerequisite: Grades 11 -12
Course Description: The AP Art History course engages students at the same level as an introductory college art history survey. The course involves critical thinking and develops an understanding and knowledge of diverse historical and cultural contexts of architecture, sculpture, painting and other media. In the course, students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. While visual analysis is a fundamental tool of the art historian, art history emphasizes understanding how and why works of art function in context, considering such issues as patronage, gender and the functions and effects of works of art. Students are expected to engage themselves throughout the year and take the AP test in May.

54040/1 AP STUDIO ART (1.0 Credit)
Prerequisite: Grades 11-12 Successful completion of Design & Media 1 and 2 or teacher approval
Course Description: In this course students will learn to use 2-D design principles to organize an image on a picture plane in order to communicate content and demonstrate mastery through any two-dimensional medium or process, such as graphic design, digital imaging, photography, collage, fabric design, weaving, fashion design, fashion illustration, painting and printmaking. Students will also develop technical skills and familiarize themselves with the functions of visual elements as they create an individual portfolio of work for evaluation at the end of the course.

55025 JEWELRY (.5 Credit)
Prerequisite: Grades 11-12 Taken concurrently with 3-Dimensional Art
Course Description: In this course students will be presented with technical, conceptual, and aesthetic issues pertaining to the art of jewelry. They will develop an understanding and a working knowledge of basic jewelry processes, materials, and equipment. Projects included will incorporate beadwork, metal, leather and wire. All content will meet the requirements outlined in the Michigan Department of Education, Arts Education High School Content Standards and Benchmarks.

54006/7 DESIGN AND MEDIA (1.0 Credit)
Prerequisite: Grades 11 - 12
Course Description: In this course students will examine the fundamentals of two-dimensional design through the study of art history, art criticism, aesthetics and art production. The exploration of various art media and process will be implemented. All content will meet the requirements outlined in the Michigan Department of Education, Arts Education High School Content Standards and Benchmarks.

55020 3-DIMENSIONAL ART (.5 Credit)
Prerequisite: Grades 11-12 Taken concurrently with Jewelry
Course Description: In this course students will examine the fundamentals of three-dimensional art through the study of history, art criticism, aesthetics and production. The exploration of various media and process will be implemented. All content will meet the requirements outlined in the Michigan Department of Education, Arts Education High School Content Standards and Benchmarks.

57011/ 2 ORCHESTRA/STRINGS (1.0 Credit)
Prerequisite: Grades 10-12 Students must play an orchestral instrument (may require instrument ownership)

Course Description: The school orchestra gives regular concerts for the public throughout the year. Students are introduced to basic orchestral literature and have their musical appreciation greatly enriched. In order to continue the student's technical growth, the teacher may recommend exercises to be played individually at sectionals.

56031/2 VARSITY CHOIR (1.0 Credit)
Prerequisite: Grades 11 -12
Course Description: Choral classes are open to all students with or without prior singing experience. Students will study the art of singing including fundamental vocal techniques, correct posture and breathing control and diction. Students will also improve intonation, sight-reading skills and ear training. Throughout the course, students will have the opportunity to perform at various school concerts and/or community festivals.

SEMINAR

Integrated Seminar – **All students will automatically be scheduled for this course according to grade level.*

*Freshman Integrated Seminar	76003/4	**(.25 Credit each semester)**
*Sophomore Integrated Seminar	76005/6	**(.25 Credit each semester)**
*Junior Integrated Seminar	76007/8	**(.25 Credit each semester)**
*Senior Integrated Seminar	76009/10	**(.25 Credit each semester)**

The Integrated Seminar course is taken in grades 9-12. In this course students engage in the following: Financial Literacy Series, College Readiness Series and time for additional academic support. A rotating class schedule is developed each school year; therefore, all students receive the same instruction.

FINANCIAL LITERACY

Ninth Grade
Units of Study: Why is it important to have a plan for your money? Banking: What is it? What are the various types of financial services available? How do you manage savings and checking accounts and debit cards? What is the difference between a debit and credit card? What is identity theft? Introduction to SMART goals.

Tenth Grade
Units of Study: Budgeting: Making the most of your money; Needs vs. Wants and budget building including PYF (paying yourself first. How does budgeting change throughout your life cycle? Investing: What is the difference between savings and investing? This includes comparing investing options and recognizing risks and rewards of investing.

Eleventh Grade
Units of Study: What is credit/credit score? What are the advantages/disadvantages of credit? Managing credit responsibly and the consequences of excessive debt. What should you expect when you reach 18 and when you matriculate to college/university?

Senior Year
Units of Study: Your career and how your career choice and lifestyle effect your financial plan. Employment testing and how you spend today may affect your tomorrow. Financing your college education.

UHSA College Readiness Series

Freshman Year

- College application exploration & preparation - students will study and complete the Common Application. This thorough application will require students to provide details regarding their extracurricular involvement, discipline history, college entrance exam scores, and other pertinent information. After completing the applications, students will be able reflect on their current academic status and level of preparation. Therefore, the application will be used as a diagnostic tool, allowing the students to review their progress and improve their decision making skills yearly, as they progress toward the senior year. Complete EDPs and take the PLAN test (with data review & SMART goals).

Sophomore Year

- Mock On-site College Admissions Interviews - students will meet individually with college admissions reps. During the interviews, reps will give a *projected admissions decisions based on the students' current transcript (3 semesters of final grades), extra-curricular involvement, and PLAN scores. Upon receiving feedback, students will have an additional 3 semesters to work toward a favorable admission decision. *Admissions decisions are projections and non-binding. College essays submitted to college reps for feedback. Complete EDPs and take the PLAN test (with data review & SMART goals).

Junior Year

- College Exploration and/or Visitation- having had adequate academic preparation, the students will be guided through the college selection process. After choosing at least three colleges that fit their educational profile, students will be prepared to visit schools and make final selections. The Junior Counselor Interview assignment will be due in late April. Students will also take a fall practice ACT, register for online transcripts, take the PSAT (with data review and action plan), and complete EDPs.

Senior Year

- Application and Scholarship Submission - At this point, all of the "guesswork" and confusion will have been eliminated. Students will know how to submit applications and will be equipped with the academic skills, character, involvement and preparation necessary to enter the college of their choice. As a part of their senior seminar grade, all students will be required to submit at least 3 college applications and 3 scholarship applications. Each student will attend an interview with their counselor regarding the above.

ACADEMIC SUPPORT

Based on academic progress, students receive extra learning support from their teachers.

Southfield Public Schools

BOARD OF EDUCATION

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Administration

Dr. Jennifer Green, Superintendent of Schools
Dr. Lanisse Freeman, Deputy Superintendent
James Jackson, Chief of Staff
Jazell Hogans, Chief Talent Management and Organizational Efficacy Officer
Marc Ingram, Chief Financial and Operational Officer
Joseph Corace, Chief Operations Officer
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