CURRICULUM GUIDE

CLARKSTON HIGH SCHOOL | 2021-2022

Clarkston Community Schools

CLARKSTON HIGH SCHOOL GRADUATION REQUIREMENTS		
SUBJECT	**CREDITS**	**SPECIFIC INFORMATION**
LANGUAGE ARTS	**4**	1.0 ELA 9 1.0 ELA 10 1.0 ELA 11 0.5 ELA 12 0.5 ELA Elective
SOCIAL STUDIES	**3**	1.0 U.S. History/Geography 1.0 World History/Geography 0.5 Economics 0.5 Civics
MATH	**4**	1.0 Algebra 1 1.0 Geometry 1.0 Algebra 2 1.0 Math Elective *Must take a math course senior year*
SCIENCE	**3**	1.0 credit Biological Science 1.0 credit Physics or Chemistry 1.0 credit Science Elective
WORLD LANGUAGE	**2**	2.0 credits in the same language
PHYSICAL EDUCATION	**1**	0.5 credit PE/Health 0.5 credit PE Elective
VISUAL, PERFORMING, & APPLIED ART	**1**	Any combination of: Performing Arts, Visual Arts, Career and Technical Education, & OSTC
ELECTIVES	**4**	Any courses that cannot be counted in other categories. This includes core courses in which the student has gone above the minimum requirements listed above.
TOTAL REQUIRED:	**22**	

Students can log into StudentVue to check which graduation requirements have been met.
Click on "Course History", then "Graduation Status" in the upper right-hand corner.

COURSES THAT FULFILL 4TH YEAR MATH ELECTIVE REQUIREMENT:

In addition to traditional math courses, the following non-traditional math courses have been approved to meet the math elective credit required in senior year. Course descriptions can be found in the Applied Technology section of the curriculum guide.

Accounting
Advanced Accounting
AP Computer Science
AP Computer Science Principles
Architecture 1
Building Wealth
Business Entrepreneurship
Business Management
Civil Engineering and Architecture
Construction Math
Engineering Graphics
Marketing & Advertising
Marketing 2 School Store Workshop
Mathtastic Art

Math elective credit can also be obtained through all Oakland Schools Technical Campus Programs

COURSES THAT FULFILL THE VISUAL, PERFORMING & APPLIED ART REQUIREMENT :

Visual Arts
Advanced Digital Photography
Advanced Drawing & Painting
Art Introduction
Design
Digital Illustration
Digital Photography
Drawing
Mathtastic Art
Mixed Media
Painting
Photoshop
Video Game Design

Performing Arts
Chamber Orchestra
Concert Choir
IB Music Theory
Jazz Band
Madrigals
Music Performance
Symphonic Band
Symphonic Orchestra
Symphonic Wind Ensemble
Wind Ensemble

Applied Technology
Accounting
Advanced Accounting
AP Computer Science
AP Computer Science Principles
Architecture 1 & 2
Building Wealth
Civil Engineering and Architecture
Computer Networking 1,2,3
Computer Programming 3
Construction Tech 1, 2, 3
Interior Design
Marketing & Advertising
Marketing 2 School Store Wkshp
Mechanical Engineering 1 & 2
Media/TV Production
Web Design 1 & 2

Family & Consumer Science
Family Studies
Human Relations
Nutrition & Wellness

Education and Training
Child Development
Education Practicum 1 & 2
Education Practicum 3 (Teacher Cadet)

OSTC
Agriscience & Env Technology
Automotive Technology
Business Mgmt./Entrepreneurship
Collision Repair/Refinishing
Construction Technology
Computer Programming
Cosmetology
Culinary Arts/Hospitality
Energy/Electrical Tech
Engineering/Mechatronics
Entrepreneurship/Adv Marketing
Graphic & Commun Design
Health Science

Social Studies
Art History
Business Law
Personal Economics

CSMTech
A+ Certification
AP Bio Lab
AP Chemistry Lab
Engineering/CAD
Internships
Multimedia 1 & 2
Programming
Science Topics
Senior Portfolio
Tech Tools 1 & 2

Grade Point Average:

CHS operates on a **weighted 4.0 grading scale.** The cumulative grade point average (GPA) on a transcript includes all courses taken in grades 9-12. If students have enrolled in Advanced Placement courses, equivalent International Baccalaureate courses, or 5th year World Language courses, weighted grade points will be assigned.

Only semester grades are used for calculating cumulative GPA. GPA values are as follows:

	Grading Scale	Grade Point Value	Weighted Grade Point Values
A	**92.5 – 100%**	**4.0**	**5.0**
A-	**89.5 – 92.4%**	**3.7**	**4.7**
B+	**86.5 – 89.4%**	**3.4**	**4.4**
B	**82.5 – 86.4%**	**3.0**	**4.0**
B-	**79.5 – 82.4%**	**2.7**	**3.7**
C+	**76.5 – 79.4%**	**2.4**	**3.4**
C	**72.5 – 76.4%**	**2.0**	**3.0**
C-	**69.5 – 72.4%**	**1.7**	**2.7**
D+	**66.5 – 69.4%**	**1.4**	**2.4**
D	**62.5 – 66.4%**	**1.0**	**2.0**
D-	**59.5 – 62.4%**	**0.7**	**1.7**
E	**59.4 & Below**	**0.0**	**0.0**

Courses That Operate on a 5.0 Scale

AP English Language and Composition (11th grade)
AP Literature and Composition (12th grade)
IB1 English HL (11th grade)
IB2 English HL (12th grade)

AP Biology
AP Chemistry
AP Physics
AP Environmental Science
IB1 Biology HL (11th grade)
IB2 Biology HL (12th grade)
IB1 Chemistry HL (11th grade)
IB2 Chemistry HL (12th grade)
CSMTech AP Biology
CSMTech AP Chemistry
CSMTech AP Physics

French V
German V
Japanese V
Spanish V
IB2 French SL (12th grade)
IB2 German SL (12th grade)

AP US History
AP Government
AP Microeconomics
AP Macroeconomics
AP European History
AP Psychology
IB Psychology SL
IB1 History HL (11th grade)
IB2 History HL (12th grade)

AP Statistics
AP Calculus AB
AP Calculus BC
IB Math Analysis & Approaches SL (12th grade)
CSMTech AP Calculus AB

AP Computer Science Principles
AP Computer Science
IB Music Theory

IB2 Japanese SL (12th grade)
IB2 Spanish SL (12th grade)

SCHEDULING INFORMATION:

Course Selection: It is important that all students and parents understand that course selection is important and the necessary time should be given to this process. Students are encouraged to meet with their academic teachers to obtain recommendations for courses to enroll in based on course content, and the student's course history and ability.

Schedule changes: Student schedules are final as of May 1st for the following school year. Schedules will only be changed for those students who have failed a course, or who are missing a course required for graduation. Staffing is predicted upon student class requests. Schedule changes at the beginning of the school year or throughout the school year will not be permitted because the student has changed their mind about which course to take. We simply do not have that flexibility.

Waiver: A student may choose to override a teacher's recommendation only if the student has met all of the course prerequisites for that class and a waiver form is completed. Students cannot use a waiver form to opt out of a prerequisite for an advanced course, or to exempt themselves from any portion of a course. The student must obtain a waiver form from his/her counselor. This form must be signed by the student and parent then returned to the counselor. Students will not be able to drop the class once it begins.

TRANSCRIPT INFORMATION:

High School Courses completed PRIOR to the 9th Grade: Students who have completed courses that meet the Michigan Merit Curriculum benchmarks for high school level courses prior to 9th grade will earn credit for the course. The course grade will be reflected on the high school transcript, and a letter grade will be given. The letter grade will not be factored into the high school GPA. Only courses completed in grades 9-12 will be used toward cumulative GPA calculation.

Transfer In Credits: Students who earn credit outside of the Clarkston Community school district may transfer those credits into CHS, provided that the credits earned elsewhere are reflected on an official transcript from an accredited institution. The letter grade earned in the course will be transferred in, and will be calculated into the Clarkston High School GPA.

Course Retake: If a student is retaking a course for grade improvement, the original grade will stay on the transcript. The new grade will be reflected in addition to the original grade after completion of the course. Per student request, the original grade can be removed from the calculated GPA.

Pass / Fail Courses: Courses in which a traditional letter grade is not given will be reflected on the transcript as an S (Satisfactory) or U (Unsatisfactory). These grades are not used in the calculated GPA.

Incomplete: Students who earn a grade of Incomplete "I" will be given two weeks after the end of the semester to make up any missing work/exams. If the work is not made up in the allotted time, the grade is changed to the grade as it stands. Requests for consideration of an Incomplete must be approved by administration. .

Testing Out of a Class:

- Students may attempt to test out of any class by following the procedure outlined on page 18. If a student scores 78% or higher on the test out, transcripts will be updated and credit will be given for that course.
- No letter grade is given. A "S"grade (Satisfactory) will be reflected on the transcript. Test out will be indicated on the transcript as "TO" next to the course title
- Students testing out for credit recovery (rather than advancement): credit will be granted, but the original grade will stay on the transcript. Per student request, the original grade can be removed from the calculated GPA.

Dual Enrollment:

- Students dual enrolling in a college course may transfer the credit back to the high school for credit, if desired, by providing CHS with an official transcript from the college/university where the course was taken. Students are encouraged to check with the various colleges or universities that they are interested in attending after graduation regarding their policies on accepting dual enrollment credit. Many colleges will not accept the credit for college credit if the student chooses to use it for high school credit as well.

TEST OUT INFORMATION / PROCESS:

Students who wish to test out of a class for credit may attempt to do so by following the process outlined below. Under a semester system, test outs are held twice per year (August and December).

1. Students will submit a test out form, available on the CHS counseling website under "Credit recovery and Test Out." **CHS Counseling Test Out Link (Click Here)**
2. Study materials, if available, can be found on the CHS counseling website under "Credit recovery and Test Out."
3. Once the test is scored, the Department Chair will email students their test results and return the form(s) to the CHS Counseling Department with a percentile score on it.
4. If a student scores 78% or higher, transcripts will be updated and credit will be given for that course.
    a. No letter grade is given. A "S"grade (Satisfactory) will be reflected on the transcript. Test Out will be indicated on the transcript as "TO" next to the course title (i.e. Civics –TO .500 cr.)
    b. Students testing for credit recovery (rather than advancement): credit will be granted, but the original grade will stay on the transcript.
5. It is the student's responsibility to contact their counselor to discuss any necessary schedule changes.

PERSONAL CURRICULUM

The personal curriculum is a documented process that modifies certain requirements of the Michigan Merit Curriculum based on a student's individual course selection and ability to complete all graduation requirements.

The Personal Curriculum (PC), requested by the parent, legal guardian, or emancipated student, allows the board of a school district or public school academy to award a high school diploma provided the student completes the PC, including as many of the content expectations of the MMC as practicable.

Utilizing a Personal Curriculum can be discussed at any time it is determined that all graduation requirements will not be met through a traditional schedule. However, the Personal Curriculum document is not approved until semester two of Senior year and is typically prepared and initiated by the appropriate caseload counselor.

For more details on "Personal Curriculum", click here to review the document: Personal Curriculum

EDUCATIONAL DEVELOPMENT PLANS & XELLO:

Educational Development Plans (EDP's):

- Students are expected to update their educational development plans (EDP) prior to scheduling and course selection period. The EDP is a tool designed to help students identify Career Pathways that match their skills and interests. A Career Pathway is a sequence of courses, which provide focus and direction to the student and their educational and career goals.
- Students complete updates to EDP's in ELA classes throughout the year based on career and college units. Each grade level may be working on their EDP at different times. Ask your student to access their Xello account and show you all of their updates, plans and progress through the years.

XELLO:

- XELLO is an online tool that helps students research careers, schools, career clusters, and more. Xello allows students to create an Educational Development Plan (EDP) including educational and career goals based on the research and resources they access through the XELLO program. XELLO offers a password protected, secure, private area for 8th-12th grade students to store individual information on their career choices, skills, interests, future plans, course requests and EDP's.

- **XELLO Log In Directions**

Michigan's Career Pathways

Career Pathways are large groupings of careers that share common interests, skills and strengths. Each pathway contains careers that range from entry level to highly specialized. The education levels in each pathway also span high school graduation to advanced degrees. **Selecting your top Career Pathways may help you identify the courses needed to prepare for specific careers**.

Arts and Communications- Are you a creative thinker? Are you imaginative; innovative; original? Do you like to communicate ideas? Do you like crafts, drawing, playing an instrument, taking pictures, or writing stories?Careers in this pathway are related to the humanities, the performing, visual, literary, and media arts. These include architecture; graphic, interior, and fashion design; writing; film; fine arts; journalism; languages; media; advertising; and public relations.Programs of study may include advertising, architectural drafting, broadcasting, creative writing, education, film production, fine arts, graphic arts, journalism, public relations, sculpture, etc.

Business, Management, Marketing & Technology- Do you enjoy being a leader, organizing people, planning activities, and talking? Do you like to work with numbers or ideas? Do you enjoy carrying through with an idea and seeing the end product? Do you like things neat and orderly? Would you enjoy balancing a checkbook, following the stock market, holding an office in a club, or surfing the Internet? Careers in this pathway are related to all aspects of business including accounting and personnel; economics and finance; business administration and management; computer systems and information processing; sales and marketing. Programs of study include accounting, computer systems and support, economics and management, entrepreneurship, finance, hospitality and tourism, office administration, personnel, sales and marketing, etc.

Engineering, Manufacturing & Industrial Technology- Are you mechanically inclined and practical? Do you like reading diagrams and blueprints, and drawing building structures? Are you curious about how things work? Would you enjoy painting a house, repairing cars, wiring electrical circuits, or woodworking. Careers in this pathway are related to technologies necessary to design, develop, install, or maintain physical systems. These include engineering, manufacturing, construction, service, and related technologies.Programs include architecture, construction, drafting, electronics, engineering and related technologies, math, mechanics and repair, manufacturing technology, physical sciences, physics, machine tools, robotics...

Health Sciences- Do you like to care for people or animals who are sick or help them stay well? Are you interested in diseases and how the body works? Do you enjoy reading about science and medicine? Would it be fun to learn first aid or volunteer at a hospital or veterinary clinic? Careers in this pathway are related to the promotion of health as well as research and the prevention and treatment of injuries, conditions, and disease.Programs include animal care, biological sciences, chemistry, dentistry, fitness, health education, nursing, nutrition, therapy, rehabilitation, hygiene, etc.

Human Services- Are you friendly, open, understanding, and cooperative? Do you like to work with people to solve problems? Is it important to you to do something that makes things better for other people? Do you like to help friends with family problems? Do you like reading, storytelling, traveling, or tutoring young children?Careers in this pathway are related to economic, political, and social systems, including child care, civil service, education, government, hospitality, law and law enforcement, leisure and recreation, military, religion and social and personal services. Programs include child and family services, cosmetology, culinary arts, language arts, law and legal studies, law enforcement, political science, psychology, religion, social services, etc.

Natural Resources & Agriscience- Are you a nature lover? Are you practical; curious about the physical world; interested in plants and animals? Do you enjoy hunting or fishing? Do you like to garden or mow the lawn? Are you interested in the environment? This pathway could have your name on it! Careers in this pathway are related to natural resources, agriculture, and the environment. These include agricultural sciences, earth sciences, environmental sciences, fisheries, forestry, horticulture, and wildlife. Programs include agriculture, astronomy, biological sciences, botany, chemistry, earth science, fisheries management, forestry, geography, horticulture, wildlife management, etc.

NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA) INFORMATION

Steps to Achieving Your Eligibility- High School Timeline

Freshmen - PLAN

- Start planning now! Take the right courses and earn the best grades possible.
- Be sure you are taking NCAA approved courses- see next page for CHS approved courses.
- Sign up for a free Profile Page account at www.eligibilitycenter.org for information on NCAA requirements.

. **Sophomores - REGISTER**

- Register for a Profile Page or Certification account with the NCAA Eligibility Center at www.eligibilitycenter.org
- If you fall behind academically, be sure to speak to your counselor about finding approved courses to take.
- Monitor your Eligibility Center account for next steps
- At the end of the year, request an official transcript be sent to NCAA through Parchment.

Juniors - STUDY

- Make sure you are on track to complete the required number of NCAA-approved courses and graduate on time.
- Take the SAT/ACT and submit your scores to the NCAA Eligibility Center using code 9999.
- Ensure your sports participation information is correct in your Eligibility Center account.
- At the end of the school year, request that an official transcript is uploaded to your Eligibility Center account through Parchment.

Seniors - GRADUATE

- Complete your final NCAA-approved courses as you prepare to graduate
- Take the SAT/ACT again, if necessary, and submit your scores to the NCAA Eligibility Center using code 9999.
- Request your final amateurism certification beginning April 1 (fall enrollees) or October 1 (winter/spring enrollees) in your Eligibility Center account at **www.eligibilitycenter.org**
- Have your final official transcript uploaded to NCAA by requesting through Parchment.

Student Registration: To get started, choose from our two account types:

1. **Profile Page Account:** If you plan to compete at a Division III school or currently are not sure in which division you want to compete, create a Profile Page account. If at any time you wish to pursue a Division I or II path, you'll be able to transition to a Certification account. (You cannot move from a Certification account to a Profile Page account.)

2. **Certification Account:** You must be certified by the NCAA Eligibility Center to compete at an NCAA Division I or II school. Before you can make official visits or sign a Division I or Division II National Letter of Intent, you must have completed the Certification account registration (including payment or fee waiver). For Certification accounts, please allow between 30 and 45 minutes to register completely. If you need to exit and come back at a later time, you can save and exit once your account is created

NCAA ELIGIBILITY REQUIREMENTS:

Division I Eligibility Requirements: Division I schools require college-bound student-athletes to meet academic standards for NCAAapproved core courses, core-course GPA and test scores. To be eligible to practice, compete and receive an athletics scholarship in your first full-time year at a Division I school, you must meet all of the following requirements:

• Graduate from high school & complete these 16 core courses:
- 4 years of English
- 3 years of math (Algebra 1 or higher)
- 2 years of natural or physical science
- 1 extra year of English, math, or science
- 2 years of social science
- 4 years of extra core courses (or foreign language)

• Complete 10 of your 16 core courses, before the start of your seventh semester. Once you begin your seventh semester, any course that is needed to meet the 10/7 requirement cannot be replaced or repeated.
• Complete the 16 NCAA-approved core courses in eight academic semesters or four consecutive academic years from the start of ninth grade. If you graduate from high school early, you still must meet core-course requirements.
• Earn an SAT combined score or ACT sum score that matches your core-course GPA (minimum 2.300) on the Division I full-qualifier sliding scale. Review the sliding scale (right) to ensure your score meets Division I requirements. All SAT and ACT scores must be reported directly to the NCAA eligibility center by the testing agency.

Division II Eligibility Requirements: Division II schools require college-bound student-athletes to meet academic standards for NCAA-approved core courses, core-course GPA and test scores. To be eligible to practice, compete and receive an athletics scholarship in your first full-time year at a Division II school, you must meet all of the following requirements:
• Graduate from high school & complete these 16 core courses:
- 3 years of English
- 2 years of math (Algebra 1 or higher)
- 2 years of natural or physical science
- 3 additional years of English, math, or science
- 2 years of social science
- 4 years of additional core or world language courses
• Earn an SAT combined score or ACT sum score that matches your core-course GPA (minimum 2.200) on the Division II full-qualifier sliding scale (see right).

Sliding Scale for Division II

Division II uses a sliding scale to match test scores and GPAs to determine eligibility. The sliding scale balances your test score with your GPA. Find more information about test scores on page 12 or visit ***ncaa.org/test-score***

DIVISION II FULL QUALIFIER SLIDING SCALE

USE FOR DIVISION II BEGINNING AUGUST 2018

Core GPA	New SAT*	Old SAT (Prior to 3/2016)	ACT Sum
3.300 & above	400	400	37
3.275	410	410	38
3.250	430	420	39
3.225	440	430	40
3.200	460	440	41
3.175	470	450	41
3.150	490	460	42
3.125	500	470	42
3.100	520	480	43
3.075	530	490	44
3.050	550	500	44
3.025	560	510	45
3.000	580	520	46
2.975	590	530	46
2.950	600	540	47
2.925	620	550	47
2.900	630	560	48
2.875	650	570	49
2.850	660	580	49
2.825	680	590	50
2.800	690	600	50
2.775	710	610	51
2.750	720	620	52
2.725	730	630	52
2.700	740	640	53
2.675	750	650	53
2.650	750	660	54
2.625	760	670	55
2.600	770	680	56
2.575	780	690	56
2.550	790	700	57
2.525	800	710	58
2.500	810	720	59
2.475	820	730	60
2.450	830	740	61
2.425	840	750	61
2.400	850	760	62
2.375	860	770	63
2.350	860	780	64
2.325	870	790	65
2.300	880	800	66
2.275	890	810	67
2.250	900	820	68
2.225	910	830	69
2.200	920	840 & above	70 & above

DIVISION II PARTIAL QUALIFIER SLIDING SCALE

USE FOR DIVISION II BEGINNING AUGUST 2018

Core GPA	New SAT*	Old SAT (Prior to 3/2016)	ACT Sum
3.050 & above	400	400	37
3.025	410	410	38
3.000	430	420	39
2.975	440	430	40
2.950	460	440	41
2.925	470	450	41
2.900	490	460	42
2.875	500	470	42
2.850	520	480	43
2.825	530	490	44
2.800	550	500	44
2.775	560	510	45
2.750	580	520	46
2.725	590	530	46
2.700	600	540	47
2.675	620	550	47
2.650	630	560	48
2.625	650	570	49
2.600	660	580	49
2.575	680	590	50
2.550	690	600	50
2.525	710	610	51
2.500	720	620	52
2.475	730	630	52
2.450	740	640	53
2.425	750	650	53
2.400	750	660	54
2.375	760	670	55
2.350	770	680	56
2.325	780	690	56
2.300	790	700	57
2.275	800	710	58
2.250	810	720	59
2.225	820	730	60
2.200	830	740	61
2.175	840	750	61
2.150	850	760	62
2.125	860	770	63
2.100	860	780	64
2.075	870	790	65
2.050	880	800	66
2.025	890	810	67
2.000	900	820 & above	68 & above

*Final concordance research between the new SAT and ACT is ongoing.

Division III Eligibility Requirements
If you are planning to attend a Division III school, you can create a free Profile Page account at eligibilitycenter.org to learn more about college sports. Division III schools set their own admissions and eligibility standards. You can visit ncaa.org/d3 or contact the D-III school you are planning to attend to learn more.

CLARKSTON HIGH SCHOOL NCAA APPROVED CORE CLASSES

SCIENCE	MATH	SOCIAL STUDIES	ENGLISH	ADDITIONAL CORE
ADVANCED BIOLOGY	**LRC MATH	ANCIENT WORLD HISTORY	AP ENGL LANG * COMP	FRENCH I
AP BIOLOGY	ALGEBRA 2 2 YR / YR 1 (.5 CREDIT)	AP EUROPEAN HISTORY	AP ENGL LIT & COMP	FRENCH II
AP CHEMISTRY	ALGEBRA 2 2 YR / YR 2 (.5 CREDIT)	AP MACROECONOMICS	CREATIVE WRITING	FRENCH III
AP ENVIRONMENTAL SCIENCE	ALGEBRA 1	AP MICROECONOMICS	ELA 9	FRENCH IV
AP PHYSICS C ELECT/MAGNET	ALGEBRA 2	AP PSYCHOLOGY	**FUND. OF ELA 10	FRENCH V
AP PHYSICS C MECHANICS	AP CALCULUS AB	AP US GOVERNMENT	**FUND. OF ELA 11	GERMAN I
BIOLOGY	AP CALCULUS BC	AP US HISTORY	**FUND. OF ELA 12	GERMAN II
CHEMISTRY	AP COMPUTER SCIENCE A	CIVICS	**FUND. S OF ELA 9	GERMAN III
CONCEPTUAL PHYSICS	AP COMPUTER SCIENCE PRINCIPLES	CURRENT EVENTS	HONORS ELA 9	GERMAN IV
CSMT ADVANCED BIOLOGY	AP STATISTICS	ECONOMICS	HONORS ELA 10	GERMAN V
CSMT AP BIOLOGY	CALCULUS	HONORS US HISTORY / GEOGRAPHY	IB ENGLISH HL	IB FRENCH AB INITIO
CSMT AP CHEMISTRY	CMST ALGEBRA 2	HONORS WORLD HISTORY / GEOGRAPHY	LITERATURE AND FILM	IB FRENCH SL
CSMT AP PHYSICS C ELEC/MAGNET	CSM-PRECALC	IB HISTORY HL	ORAL COMMUNICATION	IB GERMAN SL
CSMT AP PHYSICS C MECHANICS	CSMT AP CALC AB	IB PSYCHOLOGY SL	SHAKESPEARE	IB JAPANESE SL
CSMT BIOCHEM	CSMT GEOMETRY	LAW & SOCIETY 1		IB SPANISH SL
CSMT CHEMISTRY	CSMT PRE-CALC/TRIG	LAW & SOCIETY 2		JAPANESE I
CSMT PHYSICS	GEOMETRY	MEDIEVAL WORLD HISTORY		JAPANESE II
ECOLOGY	HONORS ALGEBRA 2	PSYCHOLOGY 1		JAPANESE III
ENVIRONMENTAL CHEMISTRY	HONORS GEOMETRY	PSYCHOLOGY 2		JAPANESE IV
FORENSIC SCIENCE	IB MATH ANALYTICS & APPROACHES	SOCIOLOGY		JAPANESE V
HONORS BIOLOGY	IB MATH APPLICATIONS & INTERPRETATIONS	US HISTORY/GEO		SPANISH I
HONORS CHEMISTRY	MATH ANALYSIS	WORLD HISTORY / GEOGRAPHY		SPANISH II
HUMAN ANATOMY & PHYSIOLOGY	PRE-CALCULUS/TRIG			SPANISH III
IB BIOLOGY HL	STATISTICS			SPANISH IV
IB CHEMISTRY HL				SPANISH V
PHYSICS				

All Dual Enrollment courses level 100 or higher are approved.

CLARKSTON HIGH SCHOOL: UNIQUE ACADEMIC PROGRAMS:

Clarkston Schools is dedicated to offering our students unique program options that best meet a student's interests and aspirations. Whether the student is interested in participating in CHS' rigorous College Preparatory Program or involvement in Career Technical Education; there is a perfect curriculum for each and every Clarkston High School student. Current Options include:

- Advanced Placement Program
- Advanced Studies Endorsement
- Clarkston Career Technical Education (CTE)
- Clarkston Science, Math & Technology Academy (CSM Tech)
- Clarkston Virtual: Blended & Online Learning
- Dual Enrollment
- Oakland ACE Early College Program
- Oakland Schools Technical Campus (OSTC)
- Oakland Schools Technical Campus Early College Program: (OTEC)
- International Baccalaureate Program (IB)
- University of Michigan Flint, Dual Enrollment Educational Partnership (DEEP)

ADVANCED PLACEMENT PROGRAM

The Advanced Placement Program® is a cooperative educational endeavor between secondary schools and colleges and universities. Since its inception in 1955, the Program has provided motivated high school students with the opportunity to take college-level courses in a high school setting. Students who participate in the Program not only gain college-level skills, but in many cases they also earn college credit while they are still in high school. AP courses are taught by dedicated and enthusiastic high school teachers who follow course guidelines developed and published by the College Board.

The Program's success is rooted in the collaborative efforts of motivated students, dedicated teachers, and committed schools. By participating in the Program, secondary schools make the commitment to organize and support at least one class that is equivalent to a first-year college course.

Clarkston High School is pleased to offer a series of Advanced Placement classes to its students. These classes are designed for motivated students who desire an academically rigorous curriculum to reach their full potential. These classes may require advanced research, reading, writing, and prepare students during their high school years to complete college-level work.

Registration in Advanced Placement courses should be carefully considered because the work in these courses and the pace at which the courses are taught will be advanced and commensurate to college-level work. Classes for next year will be sectioned based on the number of student requests. In the event that the number of requests for AP classes is too small to run a section, the course will not be offered, and the student will be asked to select a different class. Students must understand that, upon registering for an Advanced Placement course, they are committed to that decision and understand that they will not be allowed to drop the course(s).

CHS AP Course Offerings:

MATH	SCIENCE	ENGLISH	SOCIAL STUDIES	COMPUTER SCIENCE
AP Calculus AB	AP Chemistry	AP English Literature & Composition*	AP US Government	AP Comp Sci Principles
AP Calculus BC	AP Biology	AP English Language & Composition*	AP Psychology	AP Computer Science A
AP Statistics	AP Physics C	***Summer reading/project required***	AP U.S. History#	
	AP Env Science		AP European History#	
			AP Microeconomics#	

AP Macroeconomics# **#Offerd on an e/o year basis**

ADVANCED STUDIES ENDORSEMENT

Criteria for Student Selection:
The Clarkston Community Schools Advanced Studies Endorsement is designed for students who wish to participate in a continuously rigorous, challenging academic program that will lead to an Advanced Studies Endorsement on their high school diploma at the end of their senior year.

Prerequisites:
• Demonstrated academic ability in the core curriculum with a minimum of a 3.0 grade point average in language arts, science, mathematics, social studies and foreign language.
• May be required to provide additional evidence in the area of language arts which supports solid foundation of higher level academics in the area of writing skills (examples may include but are not limited to: on-site writing example(s), portfolio with examples of a variety of genres)
*To be eligible the applicant must be a qualifying resident of Oakland County or a contiguous ISD. This includes schools in the counties of Genesee, Lapeer, Livingston, Macomb, Washtenaw and Wayne.
*Out of district students must complete the application (found on the Clarkston Community Schools website) prior to filling out enrollment paperwork to ensure eligibility. In district students must apply for the endorsement by November 1st of their senior year.
*The application can be found on the Clarkston Community Schools website under the "Academics" tab, and contains a narrative essay indicating why student wishes to enter the program and describing how past experiences in school have prepared them for the program as well as a letter of intent signed by parent indicating understanding of and responsibility for ensuring their student enrolls in the required classes for the Advanced Studies Endorsement.

Curriculum Requirements:
Minimum Required Ninth Grade Course of Study
- Geometry (may be taken concurrently with Algebra I)
- Honors English/Language Arts
- Honors Biology or higher level science
- Honors United States History
- Foreign Language

Minimum Required Tenth Grade Course of Study
- Algebra 2
- Honors English/Language Arts
- Honors Chemistry or higher level science
- Honors World History
- Foreign Language

Minimum Required Eleventh Grade Course of Study
- IB Program Inclusive or a minimum of 3 Advanced Placement Classes and/or IB courses

Minimum Required Twelfth Grade Course of Study
- IB Program Inclusive or a minimum of 3 Advanced Placement Classes and /or IB courses
- Geometry (may be taken concurrently with Algebra I)
- Honors English/Language Arts
- Honors Biology or higher level science
- Honors United States History
- Foreign Language

*Each CSMTech AP course counts towards the three total but does not meet the total number required for the endorsement.. See counselor for additional information. Year five of a foreign language and dual enrollment courses

will count as one AP course*

CLARKSTON SCIENCE, MATHEMATICS, AND TECHNOLOGY (CSMTECH) ACADEMY

CSMTech was founded in 1994, with 27+ years of growth and development. It is a science, mathematics and technology academy (STEM program), where learning is celebrated! The students apply in the 8th grade to commit to the four year program. It is an integrated program with acceleration within the courses. Students learn technology tools in the 9th and 10th grades which carry them through the four year program. The math and sciences are taught in an integrated curriculum, demonstrating real world applications and connections. Students who attend this program are excited about math and science and love the atmosphere, that "learning is cool".

The CSMTech Curriculum:

The curriculum allows students to study through AP Calculus, AP Biology, AP Chemistry and AP Physics. The material is taught in a comfortable setting which encourages help from teachers as well as fellow students. Activities/labs often follow-up or initiate learning in the classroom, allowing the students to apply the material to the real world. It is more than a Science, Mathematics and Technology program, it is an environment, a culture and a family. The result being a deeper understanding of "when are we ever going to use this?" Along with math and science, technology is an integral part of the curriculum. 9th and 10th graders experience 6 **Tech Weeks** per year, where they learn a variety of technologies including computer programs such as Flash, Photoshop and moving making software - to name a few. The 11th and 12th graders have 5-week long **Technology Blocks** in which they can choose from a variety of intensive technology classes. Each student is encouraged to participate in an internship prior to graduation (through their Tech Block).

Since 1994, students have graduated and gone onto reputable colleges and universities. The program has graduated many engineers, doctors, orthopedic surgeons, veterinarians, computer and robotics engineers and computer scientists as well as teachers! Some of the esteemed universities attended include: Kettering, U of M, MTU, MSU, MIT, RIT, Purdue, Cornell, WPI and Embry Riddle to name a few.

CSMTech Benefits include:

- Students experience connections between math/science and technology
- Teamwork expectation where students work together to increase communication skills and group interaction skills
- Problem solving expectations yielding great thinkers and academic risk takers
- Time management skills that transfers to their other studies
- Whole-student learning including enhancement/enrichment days, mindfulness, growth mindset
- Mathematics software enhances student learning
- Final exams are based on real world problems connecting math/science
- Exciting atmosphere where learning is celebrated
- Students attend from other districts (school of choice students attending)
- Personal, student-centered, blended, hands-on learning environment
- Cohort of students lasting four years
- State of the art technology
- Technology applications enhancing connections
- Every student is assigned a Mac laptop and Adobe Suite for school/Tech assignments
- Career focused opportunities

CSMTech requires its students to be **responsible learners** with a **great work ethic**. Students attending should have a **positive attitude** toward learning, completing assignments fully and on time, as well as the **desire to learn.** The student should also be accustomed to working with other students in groups where many of the projects and assignments are based on **teamwork**

CAREER AND TECHNICAL EDUCATION

"The Mission of the Clarkston Career & Technical Education program is to prepare students so they have the necessary academic, technical, and work behavior skills to enter, compete, and advance in education and their careers."

CLARKSTON CAREER TECH

Career Tech may be of interest to you if you would like to explore your interest in:

Accounting, Business Management & Administration, Computer Software Design & Information Technology, Engineering & Drafting, Education, Family & Consumer Sciences, Marketing, Media & Television Production

Why take Career Tech courses at Clarkston High School?

- Career Tech courses are based on the U. S. Labor Department's top ten highest paid and most in demand occupations. We prepare you for the real world of work and give you an appreciation for the career you may or possibly should be considering now.
- Most Career Tech courses allow for credit to be earned at local Colleges and Universities (See below).
- Career Tech teachers have work experience in the fields that they teach.
- Most Career Tech courses are Project-Based and allow you to demonstrate your understanding through your own creativity.
- Additional State and Federal funding for Career Tech courses help us ensure that the most current technology and resources are available for our career tech students.

New Career and Technical Education Options for Michigan Merit Curriculum Core Requirements:

1. Students may elect to use a successfully completed Career and Technical Education course of study to fulfill core graduation requirements. By completing the **entire** course of study, students may elect to exchange:
   - one required World Language graduation requirement
   - the required Science elective requirement
   - both required World Language and Science elective requirements.

Students will not earn Science or World Language credits. They can choose to let their CTE program credits fulfill those graduation requirements. Students can fill out a Science/World Language Graduation Requirement Exchange form in the high school counseling office at the completion of the CTE program.

CHS has the following state-approved courses of study:

- Accounting
- Architectural Drafting and Design
- Computer Programming
- Computer and Network Technology
- Construction Trades
- Education
- Marketing
- Mechanical Engineering

Both CHS & RHS have the following state-approved courses of study:

- Business Administration Management and Operations
- Web Design

2. Computer Science is now a state-approved Science elective credit. Students at CHS can choose from AP Computer Science Principles, or AP Computer Science

CHS/CTE ARTICULATION AGREEMENTS WITH POST-SECONDARY SCHOOLS

An articulation program is when a post-secondary institution awards advanced placement credits to students enrolled in approved Cla Clarkston High School CTE course(s) or an OSTC Northwest program in which the student meets all requirements.

Clarkston High School Course	Post-Secondary Institution	Credits Approved	Additional Requirements
Business Management, Finance & Marketing			
Accounting	Baker College Davenport University	4 Credits	Baker (80% course grade) Davenport (3.0 or higher)
Advanced Accounting	Baker College Davenport University	4 Credits	Baker (80% course grade) Davenport (3.0 or higher)
Business Management	Baker College Davenport University Oakland Community College Ferris State University	4 Credits 3 Credits 3 Credits 3 Credits	Baker (80% course grade) Davenport (3.0 or higher) Oakland Comm Co (3.0 or higher) Ferris State (B or Better)
Entrepreneurship	Baker College Davenport University Oakland Community College Ferris State University	4 Credits 3 Credits 3 Credits 3 Credits	Baker (80% course grade) Davenport (3.0 or higher) Oakland Comm Co (3.0 or higher) Ferris State (B or Better)
Marketing & Advertising	Baker College Davenport University Oakland Community College	4 Credits	Baker (80% course grade) Davenport (3.0 or higher) Oakland Comm Co (3.0 or higher)
Marketing 2 School Store Wkshp	Baker College Davenport University	4 Credits	Baker (80% course grade) Davenport (3.0 or higher)
Computer Information Systems & Problem Solving			
Computer Hardware Repair	Baker College Davenport University	4 Credits 3 Credits	Baker (80% course grade) Davenport (3.0 or higher)
Computer Networking	Baker College Davenport University Ferris State University	4 Credits 3 Credits 3 Credits	Baker (80% course grade) Davenport (3.0 or higher) Ferris (B or Better, Net + Cert)
Web Design 1	Baker College Davenport University	4 Credits 3 Credits	Baker (80% course grade) Davenport (3.0 or higher)
Web Design 2	Baker College Davenport University	4 Credits 3 Credits	Baker (80% course grade) Davenport (3.0 or higher)
Intro to Programming	Baker College Davenport University	4 Credits 6 Credits	Baker (80% course grade) Davenport (3.0 or higher)
AP Computer Science	Baker College Davenport University Ferris State University	4 Credits 6 Credits 6 Credits	Baker (80% course grade) Davenport (3.0 or higher) Ferris (B or Better, Java Cert
Engineering and Design Technology			
Architecture 2, Mechanical Engineering 2	Oakland Community College Baker College Ferris State University	4 Credits 8 Credits	Must take both classes Must earn a B+ or better
Engineering Graphics	Oakland Community College Baker College Ferris State University	3 Credits	Must earn a B+ or better
Civil Engineering and Architecture	Ferris State University	3 Credits	85% course grade & pass the end of course assessment
Interior Design	Oakland Community College	3 Credits	Must earn a B+ or better
Education			
Child Development	Oakland Community College	2 Credits	Must earn a B+ or better
Education Practicum 1 & 2	Oakland Community College	4 Credits	Must take both EP1 & EPB2 Must earn a B+ or better
Teacher Education	Central Michigan University	45 Pre-Student Teaching Hours & 3 Credits	Must earn a B or better & pass the MTTC exam

CHS/OSTC ARTICULATION AGREEMENTS WITH POST-SECONDARY SCHOOLS

An articulation program is when a post-secondary institution awards advanced placement credits to students enrolled in approved Cla Clarkston High School CTE course(s) or an OSTC Northwest program in which the student meets all requirements.

Oakland Schools Technical Campus (Northwest) Program	Post-Secondary Institution	Credits Approved	Additional Requirements
Graphics & Communication Design	Baker College Ferris State University The Art Institute of Michigan Davenport University Henry Ford CommunityCollege Schoolcraft CommunityCollege	9 Credits 3 Credits 20 Credits 9 Credits 9 Credits 5 Credits	Contact OSTC-NW
Automotive Technology	Macomb Community College Ferris State University Baker College UNOH	25 Credits 4 Credits 23 Credits 18 Credits	Contact OSTC-NW
Biotechnology & Environmental Science	Oakland Community College	6 Credits	Contact OSTC-NW
Information Technology, Entrepreneurship & Advanced Marketing (iTeam)	Baker College Oakland Community College Macomb Community College Davenport University Northwood University	24 Credits 15 Credits 15 Credits 25 Credits 15 Credits	Contact OSTC-NW
Automotive Collision Repair/Refinishing	Oakland Community College	4 Credits	Contact OSTC-NW
Construction Technology	Davenport University Oakland Community College	13 Credits 10 Credits	Contact OSTC-NW
Culinary Arts/Hospitality	Ferris State University Henry Ford Community College Macomb Community College The Art Institute of Michigan Baker College Davenport University	21 Credits 8 Credits 9 Credits 15 Credits 10 Credits 13 Credits	Contact OSTC-NW
Engineering & Emerging Technologies	Ferris State University Oakland Community College Baker College Lawrence Tech University Macomb Community College	7 Credits 11 Credits 15 Credits 6 Credits 6 Credits	Contact OSTC-NW
Health Sciences	Ferris State University Oakland Community College Baker College	2 Credits 7 Credits 9 Credits	Contact OSTC-NW

CLARKSTON VIRTUAL: ONLINE & BLENDED LEARNING

Clarkston Virtual was developed to provide families with choice in their child's education. Traditional public schooling isn't for everyone. No two students are the same. At Clarkston Virtual we embrace the fact that every student is original, and has their own unique learning style. We also know that every student has a past, a story, and a bright future ahead of them. Clarkston Virtual offers students the opportunity to work at their own pace, on their own time schedule, from the comfort of their own home. Families have found that Clarkston Virtual students benefit from the additional flexibility of being able to work around their extracurricular activities, jobs/internships or other outside interests. Clarkston Virtual students can work virtually from anywhere in the world.

Our VISION: to deliver high quality, innovative K-12 education today, in order to create tomorrow's leaders.

Our MISSION: to provide K-12 students with flexible and rigorous virtual learning opportunities using innovative technologies, well-rounded curriculum(s), and an individualized educational delivery that will help them acquire the knowledge and skills necessary for future success.

Our PHILOSOPHY: Clarkston Virtual helps students meet their fullest potential by working in partnership with families to provide rigorous virtual education that is CCS teacher-mentored and tailored to meet the needs of students from all academic backgrounds. Clarkston Virtual provides students with a top-notch education and maintains valuable family relationships based on the shared belief that the student always comes first.

The choice is available for parents to request that their students(s) in grades K-12 be enrolled in virtual learning. Students in grades K-12 may choose complete (full day) online schooling or individual courses. Clarkston Community schools utilize the following curriculum providers for full-time students as well as students taking a portion of their classes virtually:

- Lincoln Learning
  - **Lincoln Learning K-5 Course Catalog**
- Pearson Connexus
  - **CCS Pearson 6-8 Course Catalog**
  - **CCS Pearson 9-12 Course Catalog**
- HighPoint Hybrid
  - **Course Catalog**
- Homeschool Connections
  - **Course Catalog**
- GenNET Online Learning
  - **Course Catalog**

Please visit the **Clarkston Virtual website** if you have any additional questions about online learning opportunities. If you would like to further discuss the online option, please contact Ken Janczarek, Director of Special Programs at 248.623.5440

DUAL ENROLLMENT INFORMATION / PROCESS:

Effective April 1, 1996, Public Act 160 created the Postsecondary Enrollment Options Act, commonly referred to as Dual Enrollment. This law directs school districts to assist students in paying tuition and fees for courses at Michigan public or private colleges or universities, if all of the following conditions are met:

1. Students are in grade 11 or grade 12.
2. An eligible course for dual enrollment is one that is not offered by the school district, or that is offered by the school district but is determined by the governing board not to be available to the student because of a scheduling conflict beyond the student's control.
3. "Not available due to a scheduling conflict" is defined as:
   a. A scheduling conflict that exists between two core courses,
   b. A scheduling conflict exists between a core and an elective course in which the student has established an ongoing academic history in the elective program and/or a post-secondary educational plan has been established in the elective area. Students would then take the elective course at CHS, and Dual Enroll for the core class.
   c. A scheduling conflict exists due to a student's IEP.
4. The college courses cannot be an elective, hobby, craft, or recreation course, or in the subject areas of physical education, theology, divinity, or religious education.
5. Students must be enrolled in both the school district and post-secondary institution during the local school district's regular academic year and must be enrolled in at least one high school class all year long.
6. Students can qualify for dual enrollment by taking one of the following assessments and receiving a qualifying score: PSAT, SAT, ACT PLAN, ACT, or MME
7. Dual Enrollment is only allowed at Michigan postsecondary institutions.

School districts are required to pay the lesser of:

1. The actual charge for tuition, mandatory course fees, materials fees and registration fees; or
2. That state portion of the students' foundation allowance, adjusted to the proportion of the school year they attend the post-secondary institution.

If you believe you are eligible for dual enrollment and wish to participate; review and complete the following Dual Enrollment Paperwork: **2021-2022 CHS Dual Enrollment Process**

INTERNATIONAL BACCALAUREATE PROGRAM

The International Baccalaureate Organization was founded in 1968 and currently works with more than 4,000 schools around the world. Students enrolled in the IB Diploma Programme are involved in a demanding international curriculum that encourages divergent learning. Students share academic experiences which emphasize critical thinking and intercultural understanding. The curriculum coincides with state and national requirements. Students interested in earning the IB Diploma in addition to Clarkston Community Schools' Diploma enter the two-year program as a high-school junior (ages 16 to 19).

The IB Diploma Programme is a comprehensive and challenging pre-university course that demands the best from both motivated students and teachers. The curriculum and pedagogy of IB programmes focus on international perspectives of learning and teaching, while insisting that students fully explore their home culture and language. This sophisticated two-year curriculum covers a wide range of academic subjects and its graduates are welcomed by the world's leading universities.

The education of the whole person is manifested through domains of knowledge with coursework that:
• Covers a broad range of subjects drawing on content from educational cultures across the world.
• Gives special emphasis to language acquisition and development.
• Encourages learning across disciplines and focuses on developing the skills of learning.
• Includes study of individual subjects and of transdisciplinary areas.
• Provides opportunities for individual & collaborative planning and research.
• Includes a community service component requiring action and reflection.

Diploma students take a minimum of six IB designated subjects in addition to submitting a 4,000 word extended essay, completing a curriculum in theory of knowledge (TOK), and participating in creativity, activity, and service (CAS) projects. The diploma is well recognized by the world's leading universities. Students are assessed both internally and externally in ways that measure individual performance against stated objectives for each subject.

Why choose IB?
• Broad range of content from cultures around the world
• Internationally respected curriculum and assessment
• Fosters independent thinking and study habits
• Develops oral communication skills
• Breadth and depth of coursework produces diverse skills valued by employers
• Encourages learning across disciplines
• Provides opportunities for individual and collaborative research
• Engages students in creativity, activity, and service projects

IB prepares students to:
• Ask challenging questions.
• Learn how to acquire knowledge.
• Develop a strong sense of their own identity and culture.
• Develop the ability to communicate with and understand people from other cultures and countries.

UNIVERSITY OF MICHIGAN-FLINT (UM-FLINT) DUAL ENROLLMENT EDUCATIONAL PARTNERSHIP (DEEP)

Overview: The DEEP program allows motivated and qualified students to earn college credit by taking

accredited courses through UM-Flint on the CHS Campus. DEEP courses are taught on a Monday/Wednesday or Tuesday/Thursday schedule each week. Courses are taught during the regular high school academic day, providing students with time to participate in additional classes and after-school activities. DEEP courses generally follow the UM-Flint academic calendar. However, UM-Flint faculty will accommodate each high school's Spring Break.

Program Qualifications: A selection process and criteria will be developed by the school district in cooperation with UM-Flint. UM-Flint has established the following general expectations for DEEP program enrollees:

- An overall grade point average of 3.0+
- An interest in post-secondary study in the appropriate professional field
- The ability, maturity, and motivation to undertake successfully the rigor and content of college-level coursework
- A favorable recommendation from the high school principal or counselor addressing the success of the applicant in a college preparatory high school curriculum, including successful completion of 3+ years of HS English with strong writing skills, and other similar characteristics
- Excellent attendance in high school courses

Cost: The DEEP program will be offered to CHS students and families at a reduced-tuition rate.

University Credit:

- Students who participate in this program will be dual-enrolled in their home high schools and the UM-Flint. Credit earned will be part of an official UM-Flint transcript. These credits are applicable to four-year degree programs at UM-Flint and potentially transferable to other institutions.

- Students who intend to transfer these credits to another institution are advised that their intended/preferred transfer institution determines which credits will transfer. The UM-Flint courses selected for the DEEP program are considered by faculty as desirable because they will:
    - Help students develop a stronger academic foundation in the profession being studied, and
    - Accustom students to the rigors of college-level work.

Program Offerings:

- Medical Science (13 College Credits)
- Humanities (12 College Credits)
- Liberal Arts (12 College Credits)

For information about courses in each program and additional information, please click here

*Program courses are subject to change according to UM-Flint discretion.

Applications are available in the CHS Counseling office, and should be turned in to the CHS counselor at the time of schedule card collection.

DEEP Courses Available: https://www.umflint.edu/k12/clarkston-community-schools

OAKLAND SCHOOLS TECHNICAL CAMPUS (North West)

Oakland Schools Technical Campus Northwest is an extension of CHS in which students attend half their day at CHS and the other half at OSTC NW. The educational and training opportunities are structured with offerings called clusters. These clusters (there are twelve at OSTC NW) are developed around broad occupational areas and contain many different, but related, career training options for students. A team of specialized instructors that possess a Michigan Vocational Authorization, staff these clusters; which ensures necessary technical expertise and knowledge of best instructional methodology practices.

Eligibility and Enrollment: The programs at OSTC are designed primarily as two-year programs with enrollment beginning in the junior year of high school. Juniors, or other first year students, are enrolled in the morning session. These students will receive 1.5 credits. All students may apply for enrollment, but priority will be given to those students that have visited the campuses and have identified the cluster as a career pathway on their EDP. Seats for the host school are limited so early exploration and application is encouraged. Applications for the following year are available at the OSTC website beginning Oct 1st: **Apply to OSTC- NW**

Students interested in applying to OSTC for the 2021-2022 School Year were encouraged to follow this Step by Step Application Process by January 15, 2021 to secure a spot in order to finalize their 2021- 2022 course selections. However, students may apply to OSTC until the end of the school year (June 1st) at which time ALL schedules are FINAL.

Student transportation: Students may choose the bus services provided by Clarkston school district to the North West campus, or provide their own transportation. Students who elect to drive or ride with another assume all responsibilities connected with transportation.

Credit: Oakland Schools Technical Campuses will recommend high school credit for students based on the local district requirement upon successful completion of the cluster requirements. Articulated and direct credits for college courses may be available based on agreements with many post secondary institutions. Credit awards for students will be based on student achievement and the agreement with the particular college or university.

PROGRAM CLUSTERS:
****Click on each cluster below to learn more about each program option****

- **Agriscience and Environmental Technologies**
- **Automotive Technology**
- **Collision Repair and Refinishing**
- **Computer Programming**
- **Construction Technology**
- **Culinary Arts/Hospitality**
- **Energy-Electrical Technology**
- **Engineering, Robotics & Mechatronics**
- **Entrepreneurship and Advanced Marketing**
- **Graphic and Communication Design**
- **Health Sciences**
- **Machining**
- **Cosmetology (NorthEast Campus Only)**

OSTC Oakland Schools TECHNICAL CAMPUSES

OAKLAND SCHOOLS TECHNICAL CAMPUS EARLY COLLEGE PROGRAM

Oakland Technical Early College (OTEC) is an intensive program offering 11th grade students the opportunity to earn an associate degree related to the technical program the student is enrolled in OSTC. Oakland Schools Technical Campuses have partnered with Oakland Community College to bring Early College opportunities to our campuses. In 11th and 12th grades students take college courses along with their Home High School and OSTC coursework. Students attend Oakland Community College full time during an added 5th year, earning both their associate's degree and a high school diploma. There is no student cost related to college tuition or books.

Requirements:

- Currently a 10th grade student who will be attending a program that is part of OSTC in 11th grade
- Minimum 2.0 High School GPA
- Will complete all 9th and 10th grade graduation requirements by the end of 10th grade
- Complete a separate Oakland Technical Early College application, Counselor Recommendation Form, Transcript, Oakland Community College Application & Oakland Community College placement test.
- Complete a seminar to prepare for OTEC during the summer after 10th grade
- Be enrolled in a participating school district
- Personal transportation is needed for coursework that will be at Oakland Community College or an OSTC location after normal school hours

***For more information watch this OTEC Overview**

OAKLAND ACE EARLY COLLEGE PROGRAM

ACE is an early college program offered at no-cost to high school students who wish to get a jump start on earning college credits while still in high school.

Oakland ACE Program

Start College in High School

The 3-year ACE program (a partnership between Oakland Schools and OCC) provides a gradual transition from high school to college in a supportive and monitored environment. Students apply in the 10th grade and start taking classes at OCC when they are juniors. In addition to the opportunity to earn college credits, the program provides college and career guidance, along with soft-skills instruction.

Students stay enrolled as full-time students at their high school all three years of the program. In the 11th and 12th grade, students divide their time between high school classes and classes at OCC. In the added fifth year of high school, students take all of their final high school requirements at OCC. Students will still walk at DTE with their class, and may participate in all end of senior year activities. At the end of the fifth year, students will be awarded with their CHS diploma, as well as an Associate Degree from OCC.

ACE program staff handle all the student scheduling at OCC, placement testing, textbook purchasing, monitoring of academic progress, college applications, and applications for financial aid and scholarships - in addition to delivering a college-success and soft-skills curriculum in weekly seminars with students.

Application materials and more information can be found under "Application Process" on the website: www.oaklandace.org. Applications are accepted on a rolling basis starting in February each year.

DEPARTMENTAL OFFERINGS:

ENGLISH LANGUAGE ARTS

Course Title	Length	Grade Offered	Prerequisite
ELA 10	2 semesters	10	None
Honors ELA 10	2 semesters	10	A- in ELA 9 or B+ in Honors ELA 9
ELA 11	2 semesters	11	None
AP Language & Composition	2 semesters	11	See course description
ELA 12	1 semester	12	None
AP English Literature	2 semesters	12	See course description
Literature and Film	1 semester	12	None
Creative Writing	1 semester	11, 12	None
Oral Communications	1 semester	10,11,12	None
Shakespeare	1 semester	12	None
Yearbook	2 semesters	10,11,12	Application

Career Pathways:
a = arts and communications
b = business, management, marketing & technology
e = engineering and industrial
h = human services
n = natural resources
s = health services

English Language Arts 10	**A (B10061)**	**B (B10062)**	**all pathways**	**NCAA**	**1 Credit**
English Language Arts 10 is designed to help students develop an enjoyment of literature by focusing on reading, speaking, listening, and thinking. Students will engage in both creative and expository writing and will read extensively from a variety of genres including poetry, fiction, and informational texts. This course also focuses on preparing students for the Michigan Merit Exam/ SAT which will be taken during their junior year.					
Grade(s) Taught: 10	Prerequisite: None				

Honors ELA 10 A	**A (B10091)**	**B (B10092)**	**all pathways**	**NCAA**	**1 Credit**
Students will be actively involved in whole class and group dialogue, presentations, on-demand literary commentaries (speaking), other presentations, projects, research, and writing. Students will develop their understanding and analysis of the effects of literary features and their ability to express themselves in formal persuasive writing and literary analysis. Students will be asked to think about the various course texts more deeply and widely than previously expected and consider texts of a higher reading level. They will read and analyze a variety of texts including short stories, classic novels, poems and various non-fiction texts. They will strengthen their skills in preparation. The learner profile for this course includes students who are inquiring, risk-takers, thinkers, reflectors, communicators, collaborators, enthusiastic, motivated, and compassionate. **Summer reading and project REQUIRED**					
Grade(s) Taught: 10	Prerequisite: A- in ELA 9 or B+ Honors ELA 9 **Honors Language Arts Contract REQUIRED**				

ELA 11	A (B10121)	B (B10122)	all pathways	NCAA	1 Credit
This rigorous year-long course focuses on the reading and writing skills outlined in the Common Core for 11th grade. Students will do extensive thinking and analysis by reading independent novels and whole class literature and writing analysis and argumentative essays. There is also a narrative writing and an argumentative research paper based on a global issue**.** College/Career education is included as well as reflective/metacognitive essays**,** and individual/group projects and presentations. This course also focuses on the reading and writing skills necessary to prepare for the SAT and Michigan Merit Exam (MME).					
Grade(s) Taught: 11	Prerequisite: none				

Advanced Placement English Language & Composition	A (B10111)	B (B10112)	all pathways	NCAA	1 Credit
AP English Language and Composition is an introductory college-level composition course. The course focuses on the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise, as well as the development and revision of evidence-based argumentative writing, It also focuses on the close reading skills needed for a variety of nonfiction texts. Students will study various modes of writing and rhetoric as well as study the grammatical features of sophisticated writing. Career/College planning is included. This course also focuses on the reading and writing skills necessary to prepare for the SAT and MME. This course prepares for the AP Exam with what students should know and be able to do to qualify for college credit or placement. Students are expected to take the AP test in May. This course operates on a 5.0 grading scale. **Summer reading and writing are required.**					
Grade(s) Taught: 11	Prerequisite: Semester grade of B+ if currently enrolled in ELA 10 Honors; or semester grade of A -, teacher recommendation, and portfolio review if *not* enrolled in an ELA 10 Honors class. **AP Language Arts Contract REQUIRED**.				

ELA 12	(B10193)	all pathways	NCAA	.5 Credit
Students in this course will read and discuss a variety of modern and classic texts from the United States and around the world. Students will strengthen reading skills through analysis of multiple genres. Students will also strengthen their writing skills and exhibit their learning through several major writing assignments including but not limited to: literary analysis and argument writing. Discussion, and class participation in general, will be an integral part of the class. This course reflects the culmination and progression of key language arts skills and standards developed by Clarkston Community Schools' language arts teachers to comply with the Common Core Standards. This course is required unless a student takes A.P. Literature & Composition or IB2 English HL.				
Grade(s) Taught: 12	Prerequisite: None			

Advanced Placement English Literature & Composition	A (B10551)	B (B10552)	all pathways	NCAA	1 Credit
This course is designed to prepare students for the Advanced Placement English Literature and Composition Exam. Emphasis is placed on testing strategies, poetry, prose and drama interpretation, essay response, and independent thinking. Students are expected to take the AP test in May. This course operates on a 5.0 grading scale. **Summer reading/writing required.**					
Grade(s) Taught: 12	Prerequisite: Semester grade of B+ if enrolled in 11th grade AP Language and Composition; or semester grade of A -, teacher recommendation, and portfolio review				

	if *not* enrolled in the AP class. **AP Language Arts Contract REQUIRED.**

Creative Writing	**(B10220)**	**h**	**NCAA**	**.5 Credit**
This course will require students to become practicing writers by writing daily. Students will share their poetry and short story writing in writers' groups, will read in an area of interest, and complete a portfolio of personal writing. Teacher directed lessons and independent choice situations should be expected.				
Grade(s) Taught: 11, 12	Prerequisite: None			

Literature and Film	**(B10301)**	**a,h**	**NCAA**	**.5 Credit**
This semester course focuses on the close study of literature and film. The course includes daily reading and writing, weekly screenings, as well as whole-class discussions. Students will develop analysis and interpretive skills through the reading of classic and contemporary literature, as well as the viewing of classic and contemporary film. Students will learn the vocabulary of literature and film, and will be required to apply this knowledge in three well-developed essays. The three major writing assignments include a review, a film analysis, and a compare/contrast essay.				
Grade(s) Taught: 12	Prerequisite: None			

Oral Communications (Speech)	**(B10210)**	**h,b**	**NCAA**	**.5 Credit**
This course is designed to acquaint students with the fundamentals of oral communication. The major emphasis of the course is the presentation of speeches, conversation skills, listening techniques, speech presentation and evaluation, interviewing and library skills. Several speeches will be based on student research and writing. Career education is included. **(May not be viewed by colleges as English credit)**				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Shakespeare	**(B10370)**	**all pathways**	**NCAA**	**.5 Credit**
What makes Shakespeare so great? Take this semester-long course to find your answer! This course includes the introductory study of some of the great author's comedies, tragedies, and history plays, along with his sonnets. There is no requirement that students be experienced and confident readers of Shakespeare already, only that they are willing to patiently and earnestly explore the sometimes challenging—but often enlightening—language of English's most renowned writer. The course will use both film and some short student performance, in addition to close reading and discussion, to help reveal Shakespeare's storylines, characters, and themes as particularly meaningful to today's times. The author's life and times, as well as the debate over whether in fact, Shakespeare is the actual author of these works, will also be studied. Students in the course are expected to come prepared to class having completed the daily assignments in order to participate fully in the class activities and discussions that are the heart of the course exploring the social, political, and formal issues developed in his works. In addition, both outside and in-class writing—personal, creative, and, most significantly, analytical—are among the core assessments for the class. By successfully completing this course, students will be able to describe who Shakespeare is, what techniques he used in his works and his important role in history and literature.				

Grade(s) Taught: 10, 11, 12	Prerequisite: None

Yearbook	**A (B20731)**	**B (B20732)**	**a**		**1 Credit**
Looking for a challenge next year? Then apply for the yearbook class and join the hardest working staff in the building. We're interested in motivated individuals who have a positive outlook on life at CHS, who don't mind writing and photography and want to be a part of a team that will assemble next year's, award-winning Hilltopper yearbook. This is an application course, and applicants will be interviewed prior to being accepted on to the staff. Note: Students will receive 1.0 ELA credit and the class must be taken for 2 semesters. **(May be viewed by colleges as an elective credit)**					
Grade(s) Taught: 10, 11, 12	Prerequisite: Application				

SOCIAL STUDIES			
Course Title	**Length**	**Grade Offered**	**Prerequisite**
World History & Geography	2 semesters	10	None
Honors World History & Geography	2 semesters	10	B+ in US History/Geography or B in Honors US History/Geography
Economics	1 semester	11	None
Civics	1 semester	12	None
AP Macroeconomics	2 semesters	11, 12	Teacher Recommendation
AP Microeconomics	2 semesters	11,12	Teacher Recommendation
AP European History	2 semesters	10, 11, 12	Teacher Recommendation
AP Government	2 semesters	11, 12	Teacher Recommendation
AP Psychology	2 semesters	11, 12	Teacher Recommendation
AP U. S. History	2 semesters	10, 11, 12	Teacher Recommendation
Ancient World History	1 semester	10,11,12	None
Art History	1 semester	10, 11, 12	None
Current Events	1 semester	10, 11, 12	None
Law and Society 1	1 semester	11, 12	None
Law and Society 2	1 semester	11, 12	Law and Society 1
Medieval World History	1 semester	10, 11, 12	None
Personal Economics	1 semester	10, 11, 12	None
Psychology 1	1 semester	11, 12	None
Psychology 2	1 semester	11, 12	Psychology 1
Sociology	1 semester	11, 12	None
Special Topics in History	1 semester	10, 11, 12	Teacher Recommendation

Career Pathways:
a = arts and communications
b = business, management, marketing & technology
e = engineering and industrial
h = human services
n = natural resources
s= health services

World History and Geography	**A (C10121)**	**B (C10122)**	**all pathways**	**NCAA**	**1 Credit**
This class will focus on large-scale patterns that have occurred during the course of history. These patterns include the birth and collapse of empires, the growth of trade networks, war, industrialism and the growth and diffusion of religions. Other large-scale historical and geographic patterns that students will examine include: changes in human governance and economic systems, interactions among societies and regions as well as the impact of demographic, technological, and environmental changes on people and their culture. Students will also be asked to evaluate the events, trends, and forces that are increasing global interdependence. **Required for all 10th graders**					
Grade(s) Taught: 10	Prerequisite: None				

Honors World History and Geography	**A (C10141)**	**B (C10142)**	**all pathways**	**NCAA**	**1 Credit**
This class will focus on large-scale patterns that have occurred during the course of history. These patterns include the birth and collapse of empires, the growth of trade networks, war, industrialism and the growth and diffusion of religions. Other large-scale historical and geographic patterns that students will examine include; changes in human governance and economic systems, interactions among societies and regions as well as the impact of demographic, technological and environmental changes on people and their culture. Students will also be asked to evaluate the events, trends and forces that are increasing global interdependence. In addition, intensive history stresses the reading, writing, and thinking skills that are the foundations which help prepare students for the AP or IB programs in 11th and 12th grade. Students should be curious, independent learners who can think about the causes and impact of historic events and can analyze ideas and philosophies, not simply remember chronologies.					
Grade(s) Taught: 10	Prerequisite: B+ in US History/Geography or B in Honors US History/Geography				

Economics	**(C10020)**	**all pathways**	**NCAA**	**.5 Credit**
This course provides students with an introduction to basic microeconomic and macroeconomic principles; with special focus given to the free enterprise system of the United States. Basic math, graphing skills will be utilized and reinforced. **Required for all 11th graders**				
Grade(s) Taught: 11	Prerequisite: None			

Civics	**(C10010)**	**all pathways**	**NCAA**	**.5 Credit**
This class is the study of the conceptual foundations of civic and political life, as well as studying the origins and foundations of the government of the United States. Students will focus on the study of structures and functions of the American Government, citizenship, and applying all of these into everyday action. Emphasis will be placed on citizens' rights and freedoms, the three branches of government and the role of the U.S. citizens within each of these branches. All students will complete a project-based learning project dealing with civic action within our community. **Required for all 12th graders.**				
Grade(s) Taught: 12	Prerequisite: None			

Advanced Placement Macroeconomics	**A (C10681)**	**B (C10682)**	**h,b**	**NCAA**	**1 Credit**
Advanced Placement Macroeconomics is a yearlong course covering basic Macroeconomic theory. This includes economic systems with a focus on national income, price determination, economic growth, monetary and fiscal policy, as well as international trade. Completion of Macroeconomics will enable students to better grasp and analyze national and world economic issues, as well as their proposed solutions.This course will prepare students to take the AP Macroeconomics exam in the spring, and if successful, the granting of three semester hours of college credit in Macroeconomics. Students are expected to take the AP Exam. This course operates on a 5.0 grading scale. **This course will be offered on a rotating basis with AP Microeconomics. AP Macroeconomics WILL be offered for the 2021-2022 school year. This course fulfills the required 11th grade Economics graduation requirement.**					
Grade(s) Taught: 11, 12	Prerequisite: Teacher Recommendation				

Advanced Placement Microeconomics	A (C10671)	B (C10672)	h,b	NCAA	1 Credit
Microeconomics is a yearlong course which studies the economic decision making of consumers and businesses. Emphasis will be placed on supply and demand, markets, market efficiency, and the role of government in the economy. Completion of Microeconomics will enable students to better grasp economic issues, and their proposed solution as it relates to businesses and consumers. This course will prepare students to take the AP Microeconomics exam in the spring and if successful the granting of three semester hours of college credit in Microeconomics. Students are expected to take the AP Exam. This course operates on a 5.0 grading scale. **This course will be offered on a rotating basis with AP Macroeconomics. AP Microeconomics WILL NOT be offered for the 2021-2022 school year. This course fulfills the required 11th grade Economics graduation requirement.**					
Grade(s) Taught: 11, 12	Prerequisite: Teacher Recommendation				

Advanced Placement European History	A (C10761)	B (10762)	all pathways	NCAA	1 Credit
Advanced Placement European History is a survey course covering major events of the past six centuries, highlighted by study of the Renaissance, art, Reformation, Scientific Revolution, Enlightenment, various political revolutions, Industrial Revolution, World Wars, the Cold War, and modern issues. Extensive reading of (and reflection on) scholarly material will be required. Writing short, long, and document-based essays is also emphasized. Students are expected to take the AP Test in May. This course operates on a 5.0 grading scale**. This course will be offered on a rotating basis with AP US History. AP European History WILL be offered for the 2021-2022 school year.**					
Grade(s) Taught: 10, 11, 12	Prerequisite: Teacher Recommendation				

Advanced Placement U.S. History	A (C10351)	B (C10352)	all pathways	NCAA	1 Credit
Advanced Placement U.S. States History is a survey course. After briefly visiting pre-1492 America, the curriculum dives into the Colonial Era, Founding, rise of Mass Democracy, Civil War, the rise of Industry, Manifest Destiny, Imperialism, Great Depression, World Wars, the Cold War, and modern issues. Extensive reading of (and reflection on) scholarly material will be required. Writing short, long, and document-based essays is also emphasized. Students are expected to take the AP Test in May. This course operates on a 5.0 grading scale. **This course will be offered on a rotating basis with AP European History. AP US History WILL NOT be offered for the 2021-2022 school year.**					
Grade(s) Taught: 10, 11, 12	Prerequisite: Teacher Recommendation				

Advanced Placement Government	A (C10631)	B (C10632)	h, b	NCAA	1 Credit
This course is a year long study of the machinery and functions of the national government of the United States. We will examine in detail the principal institutions of our political system. How public policies are established and implemented is included in the study. All students are expected to take the AP exam. This course operates on a 5.0 grading scale. **This course fulfills the required 12th grade Civics graduation requirement.**					
Grade(s) Taught: 11, 12	Prerequisite: Teacher Recommendation				

Advanced Placement Psychology	A (C10661)	B (C10662)	h, b	NCAA	1 Credit
AP Psychology is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the methods and ethics used by psychologists in science and practice. Areas of study will include biological, social, developmental and cognitive fields. Attention to current research and respect of cultural diversity will be addressed throughout the course. Students must be willing to accept the challenge of a rigorous academic course in which responsibility for daily homework is required. All students are expected to take the AP exam. This course operates on a 5.0 grading scale. Note: This is the highest level of psychology. Once this course is taken, you cannot go back to Psychology 2.					
Grade(s) Taught: 11, 12	Prerequisite: Teacher Recommendation				

Ancient World History	(C10060)	all pathways	NCAA	.5 Credit
This course is an investigation of the beginnings of mankind and man's settlement along the river valleys of the ancient world. There will be an evaluation of the world's first empires and their leaders. Topics will include the comparison of geographic, social, political, and military components of each culture studied. Join in the study of Egyptian mummification and the conquests of the ruthless Assyrians and Spartans. Learn who Sennacherib, Hatshepsut, Nebuchadnezzar, and Caligula are!				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Art History	(C10130)	a,h		.5 Credit
In Art History, students will explore the creation and cultural/historical relevance of art through various art and architectural movements as they pertain to 2-D and 3-D art. Noteworthy artists and their creations will be observed. Students will create a variety of art projects throughout their investigations.. The material will be studied with a true regional comparative perspective. There are two field trips in this course: One to the Detroit Institute of Arts and the second is a walking tour of the Architecture in Downtown Detroit.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Current Events	(C10050)	b	NCAA	.5 Credit
Let's face it, social media has taken over our lives. Whether it's Twitter, Facebook, Instagram or Snapchat, our world is inundated with information. The problem is trying to figure out what to do with all of this information when it's presented in such limited detail and often from unreliable sources. In this class we will take the media that encircles our lives and learn how to make it valuable. We will evaluate real-world problems that occur locally, nationally and globally and have class discussions on important topics that affect society. Are you looking for a relevant class that will actually talk about things that will impact your life? Do you wish you understood what your parents and relatives were talking about when they discuss politics? Do you enjoy friendly discussion and discourse? If you answered yes to any of these questions, Current Events is the class for you!				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Law and Society 1	(C10371)	h, b	NCAA	.5 Credit
This course is a study of the fundamental criminal laws and concepts of the United States. Major areas of concern will focus on general legal terms, courts in the U.S., the arrest process, court procedures, the nature of crime and corrections, and famous crimes and criminals. Guest speakers will be utilized to discuss career opportunities in the various legal fields. The course will require student involvement in law-related simulations and mock trials. Students will take a field trip to the court to observe a criminal trial. Participation in the Teen Court program is an option for students taking this course. Students will have the option of attending the Oakland County Student Law Conference which is held each year.				
Grade(s) Taught: 11, 12	Prerequisite: None			

Law and Society 2	(C10372)	h, b	NCAA	.5 Credit
This course is an advanced study of the fundamental Constitutional and civil laws and concepts of the United States. Major areas of concern will focus on general legal terms of Constitutional and civil law, important U.S. Supreme Court decisions, with an intense focus on individual rights and freedoms. The course will also require student involvement in law-related simulations, mock trials, research, and discussions on controversial issues in law. Students will have the option of taking a field trip to the Oakland County Jail.				
Grade(s) Taught: 11, 12	Prerequisite: Law and Society 1			

Medieval World History	(C10070)	all pathways	NCAA	.5 Credit
This course is an investigation of the Eastern Hemisphere during Medieval times. The class is a comparative study of geographical, social, political, economic, and military structures of Medieval Islam, the Huns, West and East Vikings, Medieval Japan, the Mongols, and the Dark Ages in Europe along with the Crusades. Join the study of knights and samurai and Viking conquests.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Personal Economics	(C10030)	b, h		.5 Credit
Personal Economics is a course designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets and evaluate and understand loans and taxes. This course will provide a foundational understanding for making informed decisions for future financial planning. Students will also participate in Online Stock Market Simulations.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Psychology 1	(C10651)	b, h	NCAA	.5 Credit
Come and explore the world within! You will explore how psychologists use research in their studies. We will also cover units on memory, why and how people learn, consciousness (sleep & dreaming) and positive psychology. You				

may even have the chance to see hypnosis in action. Note: This course may be taken before AP Psychology, but NOT after or concurrently.	
Grade(s) Taught: 11, 12	Prerequisite: None

Psychology 2	**(C10652)**	**b, h**	**NCAA**	**.5 Credit**
This comes after Psychology 1. This class will help you understand how the brain plays an important role in the field of psychology. We will examine psychological disorders and appropriate therapies people use to treat disorders. A social psychology unit will uncover the dangers of obedience, conformity and compliance. Note: This course may be taken before AP Psychology, but NOT after or concurrently.				
Grade(s) Taught: 11, 12	Prerequisite: Psychology 1			

Sociology	**(C10350)**	**b, h**	**NCAA**	**.5 Credit**
Sociology is the study of how people interact with one another in group situations and how their behavior varies from one society to another. The purpose of this course is to introduce the scientific study of humans in society. Through the study of sociology, students will develop a respect for various ethnic backgrounds and cultural differences. The class will consider the consequences of social stereotyping, prejudice and discrimination, isolation, gender, social structure, and deviant behavior. Other topics will be covered but decided upon based on the semester time constraint.				
Grade(s) Taught: 11, 12	Prerequisite: None			

Special Topics in Social Studies		**b, h**		**.5 Credit**
Students will explore targeted topics of interest, including: Civil War, Moments in History, History and Film, African American History, 1960's America, Anthropology, Archaeology, Great Battles, History of the Holocaust, History Through Biography, World Religions, Michigan History, Modern World Studies, Native American History, Philosophy,World Cultures, Women's Studies, Vietnam Era				
Grade(s) Taught: 12	Prerequisite: Teacher Recommendation (Current Social Studies Teacher)			

SCIENCE			
Course Title	**Length**	**Grade Offered**	**Prerequisite**
Advanced Biology	2 semesters	10, 11, 12	B or better in Biology
AP Biology	2 semesters	10, 11, 12	Biology **or** Advanced Biology, **and** Chemistry (not Env. Chem)
AP Chemistry	2 semesters	11, 12	Co-requisite: Pre-calc/Trig and B or better in Chemistry
AP Environmental Science	2 semesters	10, 11, 12	Prerequisite: Biology or Advanced Biology Chemistry is recommended
AP Physics C	2 semesters	11, 12	Prerequisite: Physics or Teacher Rec. Pre or Corequisite: AP Calc AB
Chemistry	2 semesters	10, 11, 12	Pre or Corequisite: Algebra 2
Honors Chemistry	2 semesters	10, 11, 12	Prerequisite: B+ or better in Biology Or B or better in Honors Biology Pre or Corequisite: Algebra 2
Conceptual Physics	2 semesters	10, 11, 12	Pre or Corequisite: Algebra 1
Ecology	2 semesters	11, 12	Teacher recommendation
Environmental Chemistry	2 semesters	10, 11, 12	Pre or Corequisite: Algebra 1
Forensic Science	2 semesters	11, 12	Prerequisite: B or better in Environmental Chemistry or Pre or Corequisite: Chemistry
Human Anatomy & Physiology	2 semesters	10, 11, 12	B or better in Biology or Advanced Biology
Physics	2 semesters	10, 11, 12	Pre or Corequisite: Pre Calc/Trig

Career Pathways:

a = arts and communications
b = business, management, marketing & technology
e = engineering and industrial
h = human services
n = natural resources
s = health services

Advanced Biology	**A (D10301)**	**B (D10302)**	**all pathways**	**NCAA**	**1 Credit**
This course is a comprehensive in-depth study of advanced biological concepts. Students actively engage in studies of scientific methodology, cell and molecular biology, energy relationships in living things, development and reproduction, genetics and evolution, and ecology. The class requires students to think critically and logically, connections between evidence and explanation. Math and problem solving are integral parts of scientific inquiry in advanced biology.					
Grade(s) Taught: 10, 11, 12	Prerequisite: B or better in Biology				

Advanced Placement Biology	A (D10661)	B (D10662)	all pathways	NCAA	1 Credit
The Advanced Placement Biology course is designed to be the equivalent of an introductory college biology course. An introductory college level text is used. Topics covered will be those recommended by the College Board as being representative of most first year courses. Appropriate level laboratory experiences will be provided since one-fourth of the credit in most college biology courses is derived from laboratory work. Literature will supplement the text. Opportunities will be offered to students to learn about problem solving, data interpretation and experimental design. This course will prepare students for the AP Biology Exam. It is expected that students enrolled in this class will take the AP exam. This course operates on a 5.0 grading scale.					
Grade(s) Taught: 10, 11, 12	Prerequisite: Biology or Advanced Biology, AND Chemistry (Environmental Chemistry does NOT meet this prereq.)				

Advanced Placement Chemistry	A(D10571)	B (D10572)	e, n, s	NCAA	1 Credit
AP Chemistry is an introductory college level course. A standard college text is used. This course is designed for highly motivated students planning on a career in the sciences. The topics covered are: atoms, forces and structures, chemical reactions, kinetics, thermodynamics, and equilibrium. In addition, 25% of class time is devoted to guided inquiry labs that incorporate essential knowledge and science practices into the learning objectives. Advanced Placement Chemistry prepares students for the AP Chemistry Exam. It is expected that students enrolled in this class will take the AP exam. This course operates on a 5.0 grading scale.					
Grade(s) Taught: 11, 12	Prerequisite: Pre-Calculus/Trig and "B" or better in Chemistry				

Advanced Placement Environmental Science	A (D10501)	B (D10502)	e, n, s	NCAA	1 Credit
The Advanced Placement Environmental Science course is designed to be the equivalent of an introductory college environmental science course. An introductory college level text is used. The course will focus on the "real science" behind environmental problems and issues. Students will utilize scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Participation in the Clinton River Student Volunteer Monitoring Program is also required. This course will prepare students for the AP Environmental Science Exam. It is expected that students enrolled in this class will take the AP exam. This course operates on a 5.0 grading scale.					
Grade(s) Taught: 11, 12	Prerequisite: Biology or Advanced Biology required, Chemistry is recommended (not required)				

Advanced Placement Physics C	A (D10631)	B (D10632)	e, n, s	NCAA	1 Credit
This course is intended for the highly motivated student who is planning a career in the sciences or engineering. Students enrolled in this course must have a solid foundation in mathematics (through Pre-Calculus and received an A or B). This course will focus on the two major areas of physics : mechanics in semester 1 and electricity & magnetism in semester 2. The mechanics component will include: kinematics, Newtonian dynamics, the conservation laws (energy, linear & angular movement). The use of calculus in problem solving and its derivations is expected to					

increase as the course progresses. The electricity & magnetism component will include: electrostatics, electric circuits, magnetostatics, and electromagnetism. During the second semester, calculus is used freely in formulating the principles and problem solving. It is expected that students in this class will take the AP exam. This course operates on a 5.0 grading scale.	
Grade(s) Taught: 11, 12	Prerequisites: Physics or Teacher Recommendation Pre or Corequisite: AP Calculus AB

Chemistry	**A (D10551)**	**B (D10552)**	**e, n, s**	**NCAA**	**1 Credit**
This is an introduction to chemistry designed to prepare students for a college chemistry course. Topics covered during the first term include atomic structure, the periodic table, bonding, nomenclature, periodic trends, and classification of reactions. The second term includes stoichiometry, equilibrium, acids/bases, and redox. A lab component is part of this course. Parts of the course require significant mathematical computation.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Algebra 2				

Honors Chemistry	**A (D10331)**	**B (D10332)**	**e, n, s**	**NCAA**	**1 Credit**
This is a two semester course. During the first semester, topics include Atomic Theory, Quantum mechanics, Periodic Table, Bonding, and chemical reactions. In the second semester, Mole theory, Stoichiometry, Thermochemistry, Gas Laws, Equilibrium and Acids and Bases. The course is designed to have a significant amount of lab time.					
Grade(s) Taught: 10, 11, 12	Prerequisites: B+ or better in Biology or B or better in Honors Biology				

Conceptual Physics	**A (D10581)**	**B (D10582)**	**all pathways**	**NCAA**	**1 Credit**
This is a survey course in Physics. The topics include: kinematics, dynamics, the conservation law, heat and thermodynamics, waves, electricity and magnetism, optics, and modern physics. There is a strong laboratory component. This course is taught without the mathematical rigor of our traditional trigonometry-algebra based course. The course uses mathematics at the level of first year algebra, consequently there is a mathematics co-requisite of Algebra 1 or Fundamentals of Algebra I. **This course is not designed to prepare students for college level Physics.**					
Grade(s) Taught: 10, 11, 12	Pre or Co-requisites: Algebra 1 or Fundamentals of Algebra 1				

Ecology	**A (D10341)**	**B (D10342)**	**n**	**NCAA**	**1 Credit**
Ecology is a course that enables students to develop an understanding of the natural environment and the environmental problems the world faces. Students will investigate fundamental ecological principles, human population dynamics, natural resources, energy sources and their uses, human interaction with the environment and personal and civil responsibility. This advanced science course will utilize group lab and field experiences to meet these expectations.					
Grade(s) Taught: 11, 12	Prerequisites: Teacher recommendation				

Environmental Chemistry	**A (D10321)**	**B (D10322)**	**e, n, s**	**NCAA**	**1 Credit**

Environmental Chemistry is an introductory course in chemistry which focuses on laboratory skills and the role of chemistry in life. There is less emphasis on mathematics than in Chemistry. Topics include organic chemistry, biochemistry, industrial chemistry, and nuclear chemistry. **This course is not designed to prepare students for college level Chemistry.**	
Grade(s) Taught: 10, 11, 12	Pre or Corequisite: Algebra 1 or Fundamentals of Algebra 1

Forensic Science	**A (D10371)**	**B (D10372)**	**all pathways**	**NCAA**	**1 Credit**
Forensic Science is a multidisciplinary laboratory course where students apply scientific concepts to real world criminal investigations. Topics of study include the history of forensic science and major forensic disciplines such as fingerprinting, questioned documents, entomology, firearm examination, digital forensics, serology, trace evidence, and pathology. The course is interdisciplinary with the study of law, ethics and current legal practice affecting the field of forensic science. Students will apply their knowledge to the investigation of simulated crime scenes. The course focuses on problem solving, writing, and research. Through scientific inquiry, students draw evidence-based conclusions.					
Grade(s) Taught: 11, 12	Pre or Corequisite: Chemistry or B or better in Environmental Chemistry				

Human Anatomy & Physiology	**A (D10351)**	**B (D10352)**	**h**	**NCAA**	**1 Credit**
This course is for students interested in careers in the medical or health care field. This course will represent a detailed study of the human organism as it relates to both Anatomy and Physiology. Students will study the structure, function, and control of the major tissues, organs, and systems of the body. Lectures and laboratory experiences are emphasized. Lab activities will include blood typing, virtual knee replacement, online dissections, blood pressure and pulse rate, sensory analysis, muscle fatigue, x-ray evaluation, reflex and reaction, digestion and enzyme action, and lung capacity.					
Grade(s) Taught: 10, 11, 12	Prerequisite: B or better in Biology or Advanced Biology				

Physics	**A (D10601)**	**B (D10602)**	**e, n, s**	**NCAA**	**1 Credit**
This is an introductory course in Physics. The topics include: kinematics, dynamics, energy, momentum and the conservation laws, heat and thermodynamics, waves, electricity and magnetism, optics and modern physics. This course also includes comprehensive laboratory components that utilize current technology.					
Grade(s) Taught: 10, 11, 12	Pre or Corequisite: Pre-Calculus/Trig				

MATH			
Course Title	**Length**	**Grades Offered**	**Prerequisite**
Algebra 1	2 semesters	10	Math 8 and Teacher Rec.
Geometry	2 semesters	10,11,12	Algebra 1 and Teacher Rec.
Honors Algebra 2	2 semesters	10	B+ Average in Algebra 1
Algebra 2	2 semesters	10,11,12	Geometry and Teacher Rec.
2 YR Algebra 2 (1st year)	2 semesters	11	Geometry and Teacher Rec.
2 YR Algebra 2 (2nd year)	2 semesters	12	2 YR Algebra 2 (1st year) and Teacher Rec.
Fundamentals of Algebra 2	2 semesters	11, 12	Geometry and Teacher Rec.
Precalculus w/Trigonometry	2 semesters	10,11,12	B- in both semesters of Algebra 2 and Teacher Rec.
Math Analysis	2 semesters	11,12	C- in Algebra 2 or 2 YR Algebra 2 (2nd year) and Teacher Rec.
AP Statistics	2 semesters	10,11,12	C in both semesters of Algebra 2 and Teacher Rec.
Statistics	2 semesters	11,12	D in both semesters of Algebra 2 and Teacher Rec.
AP Calculus BC	2 semesters	10,11,12	A in Precalc/Trig and Teacher Rec.
AP Calculus AB	2 semesters	10,11,12	B in both semesters of Precalc/Trig and Teacher Rec.
Calculus	2 semesters	11,12	Precalc/Trig and Teacher Rec.

Career Pathways:
a = arts and communications
b = business, management, marketing & technology
e = engineering and industrial
h = human services
n = natural resources
s = health services

Recommended Calculators for all Math Courses

When purchasing a calculator, Clarkston recommends a **TI-84 Plus calculator.**

When deciding which calculator to purchase, there are **two factors to consider:**
1**. Resources for Calculator Use:** There are lower cost calculators available to purchase compared to the TI calculators. However, the different brands of calculators do not all operate the same (think PC vs MAC) and even the different calculators within the same brand can be different. It is difficult for all teachers to be fluent in the use of all types of calculators. Clarkston teachers are most familiar with the TI-84 family of calculators. Currently there are also many more resources online to help you in the use of a TI calculator. If you choose a different calculator, your student should be comfortable with using a manual or searching online for resources to help with the use of the calculator.
2. **Standardized Testing:** Not all calculators are approved for use on all standardized tests such as the ACT, SAT, AP, IB and others. It can be helpful for a student to use the same calculator on a standardized test the student is already familiar with. For a quick listing of which calculators are allowed on certain standardized tests, you can visit the guide published by Texas Instruments at education.ti.com/en/us/solutions/test-preparation-tools/tabs/test-prep. For a complete listing of approved calculators, visit the website for the standardized test you are interested in.

There are a limited number of calculators available for checkout from your school's media center until you are able to obtain your own.

While not available to use in class (or on a standardized test), there may be those times where you left your calculator somewhere else. If you have access to the internet, Desmos is a highly recommended online calculator.

Algebra 1	**A (E10641)**	**B (E10642)**	**all pathways**	**NCAA**	**1 Credit**
This course develops critical thinking skills in the area of solving multi-step equations, graphing of linear and quadratic equations and inequalities, formulas, applications, solving systems of equations, polynomial factoring, rational expressions, exponents, and problem solving. A TI-84 calculator is highly recommended for this course.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Math 8 and teacher recommendation				

Geometry	**A (E10721)**	**B (E10722)**	**all pathways**	**NCAA**	**1 Credit**
The lessons in this course meet all of the geometry content standards of the Common Core State Standards for Mathematics (www.corestandards.org/math). This course embeds the CCSS Standards for Mathematical Practice as an integral part of the lessons. This course aims to formalize and extend the geometry that students have learned in previous courses by focusing on • establishing triangle congruence using rigid motions and formal constructions • building a formal understanding of similarity based on dilations and proportional reasoning • developing the concepts of formal proof • exploring the properties of two- and three-dimensional objects • working within the rectangular coordinate system to verify geometric relationships • proving basic theorems about circles • using the language of set theory to compute and interpret probabilities for compound events Students will use problem solving strategies, questioning, investigating, analyzing critically, gathering and constructing evidence, and communicating rigorous arguments justifying their thinking. Students learn in collaboration with others, sharing information, expertise, and ideas.A TI-84 calculator is highly recommended for this course.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Algebra I and Teacher Recommendation				

Honors Algebra 2	**A (E10701)**	**B (E10702)**	**all pathways**	**NCAA**	**1 Credit**
This course will include an extension of Algebra 1 concepts, as well as arithmetic sequences, geometric sequences, transformations of functions, logarithms, quadratic equations, complex numbers, higher degree polynomials, conic sections, simplifying rational expressions, graphing rational expressions, the unit circle, matrices, and linear programming. A TI-84 calculator is highly recommended for this course.					
Grade(s) Taught: 10	Prerequisites: Geometry and B+ Average in Algebra 1				

Algebra 2	**A (E10681)**	**B (E10682)**	**all pathways**	**NCAA**	**1 Credit**
Topics include an extension of major concepts of Algebra I, as well as graphing of functions, transformations of functions,polynomial functions, logarithms, radicals, complex numbers, arithmetic sequences, rational expressions and quadratic equations. A TI-84 calculator is highly recommended for this course.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Geometry and teacher recommendation				

2 YR Algebra 2 (1st year)	A (E10695)	B (E10696)	all pathways	NCAA	1 Credit
This course is designed for those students who would have difficulty completing Algebra 2 in 2 semesters. This is the first year of the 2 year class. Topics will include an extension of Algebra 1 concepts, as well as arithmetic sequences, geometric sequences, transformations of functions, logarithms, quadratic equations, complex numbers, higher degree polynomials, conic sections, simplifying rational expressions, graphing rational expressions, the unit circle, matrices, and linear programming. A TI-84 calculator is highly recommended for this course.					
Grade(s) Taught: 11	Prerequisites: Geometry and teacher recommendation				

2 YR Algebra 2 (2nd year)	C (E10697)	D (E10698)	all pathways	NCAA	1 Credit
This course is designed for those students who would have difficulty completing Algebra 2 in 2 semesters. This is the 2nd year of a 2 year class. Topics will include an extension of Algebra 1 concepts, as well as arithmetic sequences, geometric sequences, transformations of functions, logarithms, quadratic equations, complex numbers, higher degree polynomials, conic sections, simplifying rational expressions, graphing rational expressions, the unit circle, matrices, and linear programming. A TI-84 calculator is highly recommended for this course.					
Grade(s) Taught: 12	Prerequisites: 2YR Algebra 2 (1st year) and teacher recommendation				

Fundamentals of Algebra 2	A (E10661)	B (E10662)	all pathways	NCAA	1 Credit
This course is designed for those students who would normally have difficulty completing Algebra 2 over 2 years. Topics will include: an extension of Algebra 1 concepts, arithmetic sequences, geometric sequences, transformations of functions, logarithms, quadratic equations, complex numbers, higher degree polynomials, conic sections, simplifying rational expressions, and graphing rational expressions. A TI-84 calculator is highly recommended for this course.					
Grade(s) Taught: 11, 12	Prerequisites: Geometry and teacher recommendation				

Precalculus with Trigonometry	A (E10801)	B (E10802)	all pathways	NCAA	1 Credit
This course is designed to prepare students for the topics, theory and applications encountered in introductory calculus, including precalculus, and trigonometry. Topics include definitions and uses of functions: polynomial, rational, exponential, logarithmic, and trigonometric: complex numbers; angle measure; matrices/determinants. A TI-84 calculator is highly recommended for this course. While the use of technology is a part of the course, students must be able to understand several concepts and manage certain situations without the aid of a calculator.					
Grade(s) Taught: 10, 11, 12	Prerequisites: B- or better in both Semesters A and B of Algebra 2 and teacher recommendation				

Math Analysis	A (E10791)	B (E10792)	all pathways	NCAA	1 Credit

This course is for students who have completed Algebra II, but are not prepared for the level of difficulty found in Pre-Calculus may benefit from this course. Functions, logarithms, and trigonometry will be explored and practical applications are studied. A TI-84 calculator is highly recommended for this class.	
Grade(s) Taught: 11, 12	Prerequisites: C- or better in Algebra 2 and teacher recommendation.

Advanced Placement Statistics	**A (E10871)**	**B (E10872)**	**all pathways**	**NCAA**	**1 Credit**
The topic outline for AP Statistics includes all the statistics topics and the following additional topics: confidence intervals, significance tests, Chi-Squared procedures, inferences for regression, distributions, and proportions, as well as analysis of variance. The use of the graphing calculator in AP Statistics is considered an integral part of the course. A TI-84 calculator is highly recommended for this course. While the use of technology is a part of the course, students must be able to understand several concepts and manage certain situations without the aid of a calculator. Students are expected to take the AP Statistics exam.. This course operates on a 5.0 grading scale.					
Grade(s) Taught: 10, 11, 12	Prerequisites: C or better in both Semesters A and B of Algebra 2 and teacher recommendation				

Statistics	**A (E10781)**	**B (E10782)**	**all pathways**	**NCAA**	**1 Credit**
This course is designed for college bound students. The course explores statistics both conceptually and mathematically. The course covers exploring data graphically and using numerical summaries, collecting data, inference, modeling, and probability. A TI-84 calculator is highly recommended for this course.					
Grade(s) Taught: 11, 12	Prerequisites: Teacher Rec. and D or better in both semesters of Algebra 2				

Advanced Placement Calculus BC	**A (E10891)**	**B (E10892)**	**all pathways**	**NCAA**	**1 Credit**
The topic outline for Calculus BC includes all Calculus AB topics plus more. The additional topics include: Parametric, polar, and vector functions; analysis of planar curves given different forms, including velocity and acceleration vectors; differential equations; applications of integrals; improper integrals; polynomial approximations and series (concepts of series, series of constants, and Taylor series). The use of the graphing calculator in AP Calculus is considered an integral part of the course. A TI-84 Plus calculator is highly recommended for this course. While the use of technology is a part of the course, students must be able to understand several concepts and manage certain situations without the aid of a calculator. Students are expected to take the Calculus BC exam. This course operates on a 5.0 grading scale.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Precalculus with Trigonometry and teacher recommendation. Due to the intensity of this course, an A in Precalculus is strongly recommended.				

Advanced Placement Calculus AB	**A (E10881)**	**B (E10882)**	**all pathways**	**NCAA**	**1 Credit**
Course topics include functions and their graphs, limits continuity, derivatives, integrals, and the relationship between differentiation and integration. Derivation of formulas, methods, and applications of differentiation and integration, and the use of technology comprise the major part of the course. The use of a graphing calculator in AP Calculus is considered an integral part of the course. A TI-84 Plus calculator is highly recommended for this course. While the					

use of technology is a part of the course, students must be able to understand several concepts and manage certain situations without the aid of a calculator. Students are expected to take the Calculus AB exam This course operates on a 5.0 grading scale.	
Grade(s) Taught: 10, 11, 12	Prerequisites: B or better in both semesters of Precalculus with Trigonometry and teacher recommendation

Calculus	**A (E10811)**	**B (E10812)**	**all pathways**	**NCAA**	**1 Credit**
This course is designed for students with above average ability in Mathematics who plan to continue the study of calculus or its applications to the arts and sciences in college. The course is designed for the student that wants a calculus course, but does not intend on taking the AP Exam. An emphasis will be placed on problem solving. A TI-84 calculator is highly recommended for this course.					
Grade(s) Taught: 11, 12	Prerequisites: Precalculus with Trigonometry and teacher recommendation				

In addition to traditional math courses, the following non-traditional math courses have been approved to meet the math elective credit required in senior year. Course descriptions can be found in the Applied Technology section of the curriculum guide.

Accounting
Advanced Accounting
AP Computer Science
AP Computer Science Principles
Architecture 1
Building Wealth
Business Entrepreneurship
Business Management
Civil Engineering and Architecture
Construction Math
Engineering Graphics
Marketing & Advertising
Marketing 2 School Store Workshop
Mathtastic Art

WORLD LANGUAGE			
Course Title	**Length of Course**	**Grade Offered**	**Prerequisite**
French 1	2 semesters	10, 11, 12	None
French 2	2 semesters	10, 11, 12	None
French 3	2 semesters	10, 11, 12	C- in French 2 and Teacher Rec.
French 4	2 semesters	11, 12	C- in French 3 and Teacher Rec.
French 5	2 semesters	12	C- in French 4 and Teacher Rec.
German 1	2 semesters	10, 11, 12	None
German 2	2 semesters	10, 11, 12	None
German 3	2 semesters	10, 11, 12	C- in German 2 and Teacher Rec.
German 4	2 semesters	11, 12	C- in German 3 and Teacher Rec.
German 5	2 semesters	12	C- in German 4 and Teacher Rec.
Japanese 1	2 semesters	10, 11, 12	None
Japanese 2	2 semesters	10, 11, 12	None
Japanese 3	2 semesters	10, 11, 12	C- in Japanese 2 and Teacher Rec.
Japanese 4	2 semesters	11, 12	C- in Japanese 3 and Teacher Rec.
Japanese 5	2 semesters	12	C- in Japanese 4 and Teacher Rec.
Spanish 1	2 semesters	10, 11, 12	None
Spanish 2	2 semesters	10, 11, 12	None
Spanish 3	2 semesters	10, 11, 12	C- in Spanish 2 and Teacher Rec.
Spanish 4	2 semesters	11, 12	C- in Spanish 3 and Teacher Rec.
Spanish 5	2 semesters	12	C- in Spanish 4 and Teacher Rec.

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French 1	**A (F20011)**	**B (F20012)**	**all pathways**	**NCAA**	**1 Credit**
Students will develop communicative skills in listening, speaking, reading and writing French. The course will focus on communication with accuracy in an authentic cultural context.					
Grade(s) Taught: 10, 11, 12	Prerequisites: None				

French 2	**A (F20021)**	**B (F20022)**	**all pathways**	**NCAA**	**1 Credit**
Students will broaden their French vocabulary and continue to develop their communicative skills. Students will be introduced to more complex conversational situations and will experience reading longer texts.					
Grade(s) Taught: 10, 11, 12	Prerequisites: None				

French 3	**A (F20031)**	**B (F20032)**	**all pathways**	**NCAA**	**1 Credit**
The four communicative skills continue to be stressed in the classroom at a more sophisticated and advanced level. Students will participate in diverse activities that will widen their exposure to French.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Must have a C- in French 2 and Teacher Recommendation				

French 4	**A (F20041)**	**B (F20042)**	**all pathways**	**NCAA**	**1 Credit**
Students will use their French to further develop their abilities in the four language skill areas at an advanced level. Various activities and experiences will stress communicative proficiency and cultural understanding as major goals.					
Grade(s) Taught: 11, 12	Prerequisites: Must have a C- in French 3 and Teacher Recommendation				

French 5	**A (F20051)**	**B (F20052)**	**all pathways**	**NCAA**	**1 Credit**
Students will use their French to further develop their abilities in the four language skill areas. This course operates on a 5.0 grading scale.					
Grade(s) Taught: 12	Prerequisites: Must have a C- in French 4 and Teacher Recommendation.				

German 1	**A (F20121)**	**B (F20122)**	**all pathways**	**NCAA**	**1 Credit**
German 1 is an introductory course designed to teach students to understand simple German discourse, both oral and written, relating to self, family, friends, home, school, and pastimes in daily life. Students speak using familiar phrases in basic, survival-level conversation.					
Grade(s) Taught: 10, 11, 12	Prerequisites: None				

German 2	**A (F20131)**	**B (F20132)**	**all pathways**	**NCAA**	**1 Credit**
Students will broaden their German vocabulary and continue to develop their communicative skills. Students will be introduced to more complex grammar and conversational situations and will experience reading longer texts.					
Grade(s) Taught: 10, 11, 12	Prerequisites: None				

German 3	**A (F20141)**	**B (F20142)**	**all pathways**	**NCAA**	**1 Credit**
The four communicative skills will continue to be stressed at a more sophisticated and advanced level. Students will continue to broaden their cultural knowledge and advance in their grammar skills to be able to express more complex situations.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Must have a C- in German 2 and Teacher Recommendation				

German 4	**A (F20151)**	**B (F20152)**	**all pathways**	**NCAA**	**1 Credit**
Students will continue to develop their German-language abilities at an advanced level in all four skill areas--speaking, writing, listening, and reading. Emphasis will be placed on communicative proficiency and cultural understanding.					
Grade(s) Taught: 11, 12	Prerequisites: Must have a C- in German 3 and Teacher Recommendation				

German 5	A (F20161)	B (F20162)	all pathways	NCAA	1 Credit
Students will continue to develop their German-language abilities at an advanced level in all four skill areas--speaking, writing, listening, and reading. Emphasis will be placed on communicative proficiency and cultural understanding. This course operates on a 5.0 grading scale.					
Grade(s) Taught: 12	Prerequisites: Must have a C- in German 4 and Teacher Recommendation				

Japanese 1	A (F20171)	B (F20172)	all pathways	NCAA	1 Credit
Students will be able to discuss greetings, introductions, express likes and dislikes, nationalities, body parts, describe family members and friends with an introduction of home and daily activities in polite conversation. Reading and writing of Hiragana will be explored. Historical and cultural aspects of Japanese culture will also be explored.					
Grade(s) Taught: 10, 11, 12	Prerequisites: None				

Japanese 2	A (F20181)	B (F20182)	all pathways	NCAA	1 Credit
Review of all Japanese 1 with a focus on reading and writing Hiragana and Katakana. The focus again will be polite dialogue, past and present, used in situations for shopping and describing objects bought, describing their town, ordering in a restaurant, asking and granting permission, traveling to Japan, finding their way around and describing a Japanese home.					
Grade(s) Taught: 10, 11, 12	Prerequisites: None				

Japanese 3	A (F20191)	B (F20192)	all pathways	NCAA	1 Credit
Review of all Japanese 1 and 2, including a review of Hiragana and Katakana. One hundred more Kanji will be learned. A comparison study of polite versus more casual conversation will take place. Students will learn to use verbs in the plain form to discuss what they would like to be, what they think, what they plan to do, giving and receiving objects, talking on the phone, purchasing and mailing objects at the post office, and using more complex sentences. A focus on reading, translating and writing original stories in Japanese will be expected.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Must have a C- in Japanese 2 and Teacher Recommendation				

Japanese 4	A (F20201)	B (F20202)	all pathways	NCAA	1 Credit
Review of all Japanese 1, 2, and 3 including a review of all Hiragana, Katakana. An additional 100 Kanji will be learned. The main goal of this section is to help the student develop comprehension skills and aural comprehension skills through application conversations in a variety of situations.					
Grade(s) Taught: 11, 12	Prerequisites: Must have a C- in Japanese 3 and Teacher Recommendation				

Japanese 5	**A (F20211)**	**B (F20212)**	**all pathways**	**NCAA**	**1 Credit**
Students will use their Japanese to further develop their abilities in the four language skill areas. This course operates on a 5.0 grading scale.					
Grade(s) Taught: 12	Prerequisites: Must have a C- in Japanese 4 and Teacher Recommendation.				

Spanish 1	**A (F20251)**	**B (F20252)**	**all pathways**	**NCAA**	**1 Credit**
Students will develop communicative skills in listening, speaking, reading and writing Spanish. The course will focus on communication with accuracy in an authentic cultural context.					
Grade(s) Taught: 10, 11, 12	Prerequisites: None				

Spanish 2	**A (F20301)**	**B (F20302)**	**all pathways**	**NCAA**	**1 Credit**
Students will broaden their Spanish vocabulary and continue to develop their communicative skills. Students will be introduced to more complex conversational situations and will experience reading longer texts.					
Grade(s) Taught: 10, 11, 12	Prerequisites: None				

Spanish 3	**A (F20351)**	**B (F20352)**	**all pathways**	**NCAA**	**1 Credit**
The four communicative skills continue to be stressed in the classroom at a more sophisticated and advanced level. Students will participate in diverse activities that will widen their exposure to Spanish.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Must have a C- in Spanish 2 and Teacher Recommendation				

Spanish 4	**A (F20421)**	**B (F20422)**	**all pathways**	**NCAA**	**1 Credit**
Students will use their Spanish to further develop their abilities in the four language skill areas at an advanced level. Various activities and experiences will stress communicative proficiency and cultural understanding as major goals.					
Grade(s) Taught: 11, 12	Prerequisites: Must have a C- in Spanish 3 and Teacher Recommendation				

Spanish 5	**A (F20431)**	**B (F20432)**	**all pathways**	**NCAA**	**1 Credit**
Students will use their Spanish to further develop their abilities in the four language skill areas. This course operates on a 5.0 grading scale.					
Grade(s) Taught: 12	Prerequisites: Must have a C- in Spanish IV and Teacher Recommendation.				

CLARKSTON SCIENCE, MATH, & TECHNOLOGY PROGRAM (CSMTech)			
Course Title	**Length**	**Grade Offered**	**Prerequisite**
CSMTech Algebra 2A	1 Semester	9	Algebra 1 and CSMT placement test
CSMTech Geometry A	1 Semester	9	None
CSMTech Advanced Biology	2 Semesters	9	None
CSMTech Tech Tools 1	1 Semester	9	None
CSMTech Geometry B	1 Semester	10	CSMTech Geometry A
CSMTech Chemistry	2 Semesters	10	CSMTech Advanced Biology
CSMTech Algebra 2B	1 Semester	10	CSMTech Geometry A&B, Alg 2 A
CSMTech Tech Tools 2	1 Semester	10	CSMTech Tech Tools 1
CSMTech Precalculus	2 Semesters	11	C or better in Algebra 2
CSMTech Physics	2 Semesters	11, 12	C or better in Chemistry
CSMTech Biotechnical Engineering	2 Semesters	11 ,12	C or better in Biology
CSMTech AP Calculus AB	2 Semesters	12	C or better in Precalculus
CSMTech AP Physics	2 Semesters	11, 12	Coreq: AP Calc, Prereq: Physics
CSMTech AP Biology	2 Semesters	11, 12	B or better in Biology
CSMTech AP Chemistry	2 Semesters	11, 12	B or better in Chemistry
Internships	1 Semester	11, 12	Tech Tools 2*, Application
A+ Certification Tech	1 Semester	11, 12	Tech Tools 2*
Multimedia Marketing Tech	1 Semester	11, 12	Tech Tools 2*
AP Chemistry Lab	1 Semester	11, 12	Concurrent w/ AP Chemistry
AP Biology Lab	1 Semester	11, 12	Concurrent w/ AP Biology
Senior Digital Portfolio Tech	1 Semester	12	Tech Tools 2*
Science Topics Tech	1 Semester	11, 12	Tech Tools 2*
Programming Tech	1 Semester	11, 12	Tech Tools 2*

Career Pathways:
a = arts and communications
b = business,management, marketing & technology
e= engineering and industrial
h = human services
n = natural resources
s = health services

***Or Teacher Approval**

CSMTech 9th and 10th Grade Curriculum

Mathematics: The 9th and 10th grade CSMTech mathematics curriculum consists of a unified (integrated) mathematics curriculum. Although the semesters are focused on Algebra 2 or Geometry, students will all receive the necessary requirements of trigonometry, probability and statistics to be prepared for college entrance tests, prior to precalculus.

Science: The 9th and 10th grade CSMTech science curriculum consists of a unified (integrated) science curriculum. The semesters are focused on Advanced Biology and Chemistry, and the students will all receive a solid foundation for their AP courses.

Technology: The 9th and 10th grade CSMTech technology curriculum consists of 6 units of Technology discovery. These technologies will provide the students the necessary tools to present concepts/content throughout their four years of the program. CSMTech depends on the students learning these technologies for future classes.

CSMTech Algebra 2A	(V21202)	all pathways	NCAA	.5 Credit
This course integrates functions-based algebra, transformations, quadratic equations, complex numbers, higher degree polynomials, simplifying rational expressions, and graphing rational functions. The course is taught through the use of labs/activities, calculators, problem solving and real-world applications with a heavy emphasis placed on methods of problem solving, problem recognition, applications and communication of mathematics.				
Grade(s) Taught: 9	Prerequisite: Algebra 1 and Passing of Algebra Placement Exam			

CSMTech Geometry A	(V21121)	all pathways	NCAA	.5 Credit
This college-preparatory advanced course integrates geometry, trigonometry, probability and statistics, calculators, problem solving and applications of mathematics. This course includes a study of basic definitions, postulates, theorems, and figures of geometry including points, lines, planes, polygons,circles, parallel and perpendicular lines and planes, constructions, the writing of deductive proofs and algebraic applications to plane and solid geometric figures. The course is taught through the use of labs/activities, calculators, problem solving and real-world applications with a heavy emphasis placed on methods of problem solving, problem recognition, applications and communication of mathematics. Students will use TI-Nspire CX calculators, iPads, and Geometer's SketchPad as aids in their discoveries and understanding of Geometry concepts.				
Grade(s) Taught: 9	Prerequisite: Algebra 1 and Passing of Algebra Placement Exam			

CSMTech Advanced Biology	A (V21101)	B (V21213)	all pathways	NCAA	1 Credit
This course focuses on advanced biology as a unifying theme with concepts incorporated from biophysics, ecology, and chemistry. Conceptual themes are integrated with meaningful field and laboratory experiences to develop the student's ability to recognize and solve scientific problems. Emphasis is on the fundamental rules of nature and how they impact their world. On completion of this course, students will be well prepared for AP Biology.					
Grade(s) Taught: 9, 10	Prerequisites: Science 8 or equivalent				

CSMTech Tech Tools 1	(V21210)	all pathways	NCAA	.5 Credit
This course introduces students to the engineering design process and multimedia computer technology. Students will learn how to better communicate their knowledge by incorporating project design, digital video, presentation tools, and web design into their math and science classes. Projects may include "Me Videos", Rube Goldberg/Catapult Engineering projects, Presentation Techniques, Photoshop, Robotics to name a few.				
Grade(s) Taught: 9	Prerequisite: None			

CSMTech Geometry B	(V21201)	all pathways	NCAA	.5 Credit
This college-preparatory advanced course is a continuation of Geometry A, which integrates geometry, trigonometry, probability and statistics, calculators, problem solving and applications of mathematics. This course includes a study of basic definitions, postulates, theorems, and figures of geometry including points, lines, planes, polygons (triangles, quadrilaterals, etc.), circles, parallel and perpendicular lines and planes, constructions, the writing of deductive proofs and algebraic applications to plane and solid geometric figures.The course is taught through the use of labs/activities, calculators, problem solving and real-world applications with a heavy emphasis placed on methods of problem solving, problem recognition, applications and communication of mathematics. Students will use TI-Nspire CX calculators, iPads, and Geometer's SketchPad as aids in their discoveries and understanding of Geometry concepts.				
Grade(s) Taught: 10	Prerequisite: Geometry A			

CSMTech Algebra 2B	(V21203)	all pathways	NCAA	.5 Credit
This course is a continuation of Algebra 2A, which integrates functions based-algebra, transformations, logarithms, conic sections, vectors, probability and statistics, and right triangle trigonometry. Taught through the use of labs/activities, calculators, problem solving and real-world applications with a heavy emphasis placed on methods of problem solving, problem recognition, applications and communication of mathematics.				
Grade(s) Taught: 10	Prerequisite: CSMTech Algebra 2A and CSMTech Geometry A and B			

CSMTech Chemistry	A (V21211)	B (V21212)	all pathways	NCAA	1 Credit
This course is a continuation of CSMTech 9th Grade Integrated Science curriculum and focuses on chemistry as a unifying theme with concepts incorporated from physics, biochemistry, environmental chemistry and organic chemistry. Upon completion of this course, students will be well prepared to take AP Chemistry.					
Grade(s) Taught: 9, 10	Prerequisites: Science 8 or equivalent				

CSMTech Tech Tools 2	(V21230)	all pathways	NCAA	.5 Credit
This course is a continuation of Technology 1 and takes tthe students to a more advanced level and into more detail with the design process and computer software tools to further enable them to communicate effectively in the digital world. Projects include Rube Goldberg/Catapult Engineering projects, Programming, Fathom Dynamic Mathematics Projects, Illustrator and Flash to name a few.				
Grade(s) Taught: 10	Prerequisite: Tech Tools 1			

CSMTech Precalculus with Trigonometry	A (V21311)	B (V21312)	all pathways	NCAA	1 Credit

This college-preparatory advanced course is designed to prepare students with the theory and applications encountered in introductory calculus, including pre-calculus, and trigonometry. Topics include functions (polynomial, rational, exponential, logarithmic and trigonometric) and complex numbers. A principal feature of the course is the balance obtained among the algebraic, numerical, graphical and verbal methods of problem solving and learning to choose which is the most appropriate for a particular program. The course is taught through the use of labs/activities, calculators, problem solving and real-world applications with a heavy emphasis placed on methods of problem solving, problem recognition, applications and communication of mathematics. Students will use TI-Nspire CX calculators and iPads as aids in their discoveries and understanding of concepts.

Grade(s) Taught: 11	Prerequisites: C or better in CSMTech Algebra 2

CSMTech Physics	**A (V21321)**	**B (V21322)**	**all pathways**	**NCAA**	**1 Credit**
This course covers the fundamentals of physics including: laws of motion, energy, electricity, heat, sound, and light. There is a heavy emphasis on investigative laboratory work which includes problem solving, research, technology projects and real-world applications. Students must be prepared to discuss their ideas and ideologies in whole group discussions.					
Grade(s) Taught: 11, 12	Prerequisites: C or better in CSMTech 10th Grade Science Course				

CSMTech Biotechnical Engineering	**A (V21331)**	**B (V21332)**	**all pathways**	**NCAA**	**1 Credit**
Biotechnical Engineering (BE) course is a course that exposes students to the diverse fields of biotechnology including biomedical engineering, bio-molecular genetics, bioprocess engineering, and agricultural and environmental engineering. Lessons engage students in engineering design problems that can be accomplished in a high school setting related to biomechanics, cardiovascular engineering, genetic engineering, agricultural biotechnology, tissue engineering, biomedical devices, human interface, bioprocesses, forensics, and bioethics. Students in this course will apply biological and engineering concepts to design materials and processes that directly measure, repair, improve, and extend living systems.					
Grade(s) Taught: 11, 12	Prerequisites: CSMTech Biology and CSMTech Algebra 2B				

CSMTech Advanced Placement Calculus AB	**A (V21511)**	**B (V21512)**	**all pathways**	**NCAA**	**1 Credit**
AP Calculus is a course consisting of a full academic year of work in calculus and related topics and is comparable to courses in colleges and universities. Course topics include functions and their graphs, limits, continuity, derivatives, integrals, and the relationship between differentiation and integration. The use of projects and technology enhance the course, with exposure to MAPLE symbolic manipulation software. The use of a TI-84 Plus graphing calculator is highly recommended for this course. TI Voyage 200, TI-89, TI - 92, and TI-Nspire CAS (non CAS is permitted) calculators are not permitted. Students are expected to take the Calculus AB exam and fees will be collected in the fall. This course operates on a 5.0 grading scale.					
Grade(s) Taught: 12	Prerequisites: Precalculus				

CSMTech Advanced Placement Physics C	**A (V21411)**	**B (V21412)**	**all pathways**	**NCAA**	**1 Credit**

AP Physics C covers calculus based classical mechanics and electricity and magnetism. The course is an extremely intensive, college level course that requires strong math and reasoning skills. It is expected that the students will take the AP exam in May. This course operates on a 5.0 grading scale.	
Grade(s) Taught: 11, 12	Co-requisite: AP Calculus AB Prerequisite: Physics

CSMTech Advanced Placement Biology	**A (V21421)**	**B (V21422)**	**all pathways**	**NCAA**	**1 Credit**
AP Biology is designed to be the equivalent of a 2-semester college introductory biology course. The major areas of study are: molecules and cells, heredity and evolution, and organisms and populations. It is expected that the students will take the AP exam in May. This course operates on a 5.0 grading scale.					
Grade(s) Taught: 11, 12	Prerequisites: B or better in CSMTech Biology				

CSMTech Advanced Placement Chemistry	**A (V21431)**	**B (V21432)**	**all pathways**	**NCAA**	**1 Credit**
AP Chemistry is designed to be the equivalent of an introductory college chemistry course. Covered topics include: structure of matter, states of matter, reactions, descriptive chemistry, and laboratory experience. This course requires a good amount of reading and problem solving. It is expected that the students will take the AP exam in May. This course operates on a 5.0 grading scale.					
Grade(s) Taught: 11, 12	Prerequisites: B or better in CSMTech Chemistry				

Internships Tech	**(V21610)**	**all pathways**		**.5 Credit**
Students will partner with a business/industry in a 60 hour work experience. It is designed to provide students the opportunity to career shop by matching their career goals to their internship (paid or unpaid). Students actively seek out their internship with help from an CSMTech facilitator. All internships must be secured and paperwork processed before the internship is to begin. Students may take internships more than once but the internship must provide a different experience.				
Grade(s) Taught: 11, 12	Prerequisite: Application, Review			

A+ Certification Tech	**(V21620)**	**b, e**		**.5 Credit**
Students will complete a certification in computer hardware assembly and diagnostics. Upon completion of all coursework and passing the exit exam, students will be eligible to take the certification exam.				
Grade(s) Taught: 11, 12	Prerequisite: CSMTech Tech Tools 2			

Multimedia Marketing Tech	**(V21700)**	**a, b**		**.5 Credit**
Students will focus on video and editing techniques to present their concept to market. Specifically green screen and stop frame animation will be a focus. Technologies can include Final Cut, Flash, Photoshop and Illustrator.				

Grade(s) Taught: 11, 12	Prerequisite: CSMTech Tech Tools 2

AP Chemistry Lab	**(V21630)**	**all pathways**		**.5 Credit**
AP Chemistry Lab is designed to be the equivalent of an introductory college chemistry laboratory course. All the laboratory experiments necessary to meet the AP Chemistry curriculum are covered . It is expected that the students are taking AP Chemistry concurrently.				
Grade(s) Taught: 11, 12	Prerequisite: CSMTech Tech Tools 2 Co-requisite: AP Chemistry			

AP Biology Lab	**(V21660)**	**h, n, s**		**.5 Credit**
Students will learn different body systems while performing mammalian dissections and documenting the process through digital technology. Field trips to human cadaver labs, prosthetics manufacturers, and hospitals may also highlight this class. It is expected that students are taking AP Biology concurrently.				
Grade(s) Taught: 11, 12	Prerequisite: CSMTech Tech Tools 2 Co-requisite: AP Chemistry			

Senior Digital Portfolio Tech	**(V21670)**	**a, b**		**.5 Credit**
All seniors must complete a comprehensive, web-based digital portfolio encompassing their 4 years of high school using a variety of multimedia tools. The final product is to be archived on digital media.				
Grade(s) Taught: 12	Prerequisite: CSMTech Tech Tools 2			

Science Topics Tech	**(V21680)**	**a, b**		**.5 Credit**
Students will explore a recent topic in the area of science applications (i.e. nanotechnology, alternative energy). Students will conduct research and develop applications that use the science and produce a multimedia presentation.				
Grade(s) Taught: 11, 12	Prerequisite: CSMTech Tech Tools 2			

Programming Tech	**(V21690)**	**a, b, e**		**.5 Credit**
This course is an introduction to computer programming. No programming experience is necessary. Students will learn fundamental concepts and skills of programming in a high-level language, focused on LabView. Assessments will be done through student created and debugged programs that focus on real-life oriented tasks. Good program design, structure, and style are emphasized.				
Grade(s) Taught: 11, 12	Prerequisite: CSMTech Tech Tools 2			

INTERNATIONAL BACCALAUREATE PROGRAMME			
Course Title	**Length**	**Grade Offered**	**Prerequisite**
IB English: Literature-HL	4 semesters	11,12	Teacher Recommendation
IB Spanish-SL	4 semesters	11,12	Teacher Recommendation
IB French-SL	4 semesters	11,12	Teacher Recommendation
IB German-SL	4 semesters	11,12	Teacher Recommendation
IB Japanese-SL	4 semesters	11,12	Teacher Recommendation
IB French Ab Initio-SL	4 semesters	11,12	Teacher Recommendation
IB Biology-HL	4 semesters	11,12	Teacher Recommendation
IB Chemistry-HL	4 semesters	11,12	Teacher Recommendation
IB Mathematics: Analysis and Approaches-SL	4 semesters	11,12	Teacher Recommendation
IB Mathematics: Applications and Interpretation-SL	4 semesters	11,12	Teacher Recommendation
IB History-HL	4 semesters	11,12	Teacher Recommendation
IB Psychology-SL	2 semesters	11,12	Teacher Recommendation
IB Music Performance-SL	2 semesters	11,12	Teacher Recommendation
IB Music Theory	2 semesters	11, 12	Enrolled in IB Music Performance & Teacher Recommendation

Career Pathways:

a = arts and communications b = business, management, marketing & technology e = engineering and industrial
h = human services n = natural resources s = health services

- **Student who would like to take singular IB courses for certificates without enrolling in the full IB Diploma Program must understand that they are making a commitment to take that class for 2 years**
- **For further information about the IBO and its programmes, visit http://www.ibo.org**

IB English: Literature-Higher Level	**11th A (B10411) 12th A (B10421)**	**11th B (B10412) 12th B (B10422)**	**all pathways**	**NCAA**	**2 Credit**

This course is designed with the university-bound student in mind, aimed at students who are seeking a solid literary background in literature produced from all over the world with collegiate interpretive ability and collegiate writing skills.

Students will be immersed in world literature and culture throughout the course, allowing them to study works from a diverse range of North American and global perspectives. Through the selected works, students will gain an understanding of how literature from various countries is connected, helping them to gain international awareness that will help promote appreciation and respect for cultures other than and in addition to their own.

Works will be studied closely, so that students are able to create detailed analyses appropriate for university-level work. This course teaches students to study the influence and impact of individual authors' cultures and styles of writing by reviewing literary elements and devices, introducing literary theory and criticism, and applying this learning to each work they read, helping them understand literature as a cohesive whole rather than a collection of unrelated topics. This course operates on a 5.0 grading scale.

The Theory of Knowledge program is integrated into the English HL course with some hours also being taught during the other IB courses. The Theory of Knowledge (TOK) program is central to the educational philosophy of the International Baccalaureate. It challenges students to reflect critically on diverse ways of knowing and areas of knowledge. Also, students consider, through critical questioning, considering the role which knowledge plays in a global society. It encourages students to become aware of themselves as thinkers, to become aware of the complexity of knowledge, and to recognize the need to act responsibly in an increasingly interconnected world.

As a thoughtful and purposeful inquiry into different ways of knowing, and into different kinds of knowledge, the TOK program is composed almost entirely of questions. The most central of these questions is "How do I, or how do we know that a given assertion is true, or a given judgment is well grounded?" Assertions or judgments of this sort are

termed “knowledge claims”, while the difficulties that arise in addressing these questions are the broad areas known as the “problems of knowledge”. The program entails the application of this central question to many different, yet interrelated topics.

The interconnectivity of all the subjects within IB will be apparent and emphasized in the TOK classroom. Students will apply the concepts and philosophies of TOK within the subject area classrooms as well, working with subject area teachers to apply questioning patterns to individual subject areas as “areas of knowledge.”

IB Spanish-Standard Level	**11th A (F20441)** **12th A (F20451)**	**11th B (F20442)** **12th B (F20452)**	**all pathways**	**NCAA**	**2 Credit**
IB Spanish is a two-year course designed for students who have successfully completed three years of Spanish language study. The main focus of the course is on language acquisition in the development of the four language skills: listening, speaking, reading, and writing. These language skills will be developed through the study and use of a range of written and spoken material, from everyday oral exchanges to literary texts, and will be related to the cultures’ concerns. The success of a language will consist of demonstrating competence in productive, interactive and receptive skills. During the course of study, and through the development of all language skills, students will be encouraged to develop confidence in the use of the language, sensitivity to the audience and an ability to communicate their ideas clearly. The 2nd year of this course operates on a 5.0 grading scale.					

IB French-Standard Level	**11th A (F20061)** **12th A (F20071)**	**11th B (F20062)** **12th B (F20072)**	**all pathways**	**NCAA**	**2 Credit**
IB French is a two-year course designed for students who have successfully completed three years of French language study. The main focus of the course is on language acquisition in the development of the four language skills: listening, speaking, reading, and writing. These language skills will be developed through the study and use of a range of written and spoken material, from everyday oral exchanges to literary texts, and will be related to the cultures’ concerns. The success of a language will consist of demonstrating competence in productive, interactive and receptive skills. During the course of study, and through the development of all language skills, students will be encouraged to develop confidence in the use of the language, sensitivity to the audience and an ability to communicate their ideas clearly. The 2nd year of this course operates on a 5.0 grading scale.					

IB German-Standard Level	**11th A (F20081)** **12th A (F20091)**	**11th B (F20082)** **12th B (F20092)**	**all pathways**	**NCAA**	**2 Credit**
IB German is a two-year course designed for students who have successfully completed three years of German language study. The main focus of the course is on language acquisition in the development of the four language skills: listening, speaking, reading, and writing. These language skills will be developed through the study and use of a range of written and spoken material, from everyday oral exchanges to literary texts, and will be related to the cultures’ concerns. The success of a language will consist of demonstrating competence in productive, interactive and receptive skills. During the course of study, and through the development of all language skills, students will be encouraged to develop confidence in the use of the language, sensitivity to the audience and an ability to communicate their ideas clearly. The 2nd year of this course operates on a 5.0 grading scale.					

IB Japanese-Standard Level	**11th A (F20221)** **12th A (F20231)**	**11th B (F20222)** **12th B (F20232)**	**all pathways**	**NCAA**	**2 Credit**
IB Japanese is a two-year course designed for students who have successfully completed three years of Japanese language study. The main focus of the course is on language acquisition in the development of the four language skills: listening, speaking, reading, and writing. These language skills will be developed through the study and use of					

a range of written and spoken material, from everyday oral exchanges to literary texts, and will be related to the cultures' concerns. The success of a language will consist of demonstrating competence in productive, interactive and receptive skills. During the course of study, and through the development of all language skills, students will be encouraged to develop confidence in the use of the language, sensitivity to the audience and an ability to communicate their ideas clearly. The 2nd year of this course operates on a 5.0 grading scale.

IB French Ab Initio-Standard Level	**11th A (F20481) 12th A (F20491)**	**11th B (F20482) 12th B (F20492)**	**all pathways**	**NCAA**	**2 Credit**

IB Language ab initio is a language acquisition course designed to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where the language studied is spoken. This process encourages the learner to go beyond the confines of the classroom, expanding an awareness of the world and fostering respect for cultural diversity. This course is for students who have little or no previous learning experience in the language being studied. Through receptive, productive and interactive skills, students will learn to respond and interact appropriately in a defined range of everyday situations.

IB Biology-Higher Level	**11th A (D10381) 12th A (D10391)**	**11th B (D10382) 12th B (D10392)**	**all pathways**	**NCAA**	**2 Credit**

IB Biology is a two-year course that focuses on concepts crucial to the understanding of the biological sciences, as well as experimental laboratory work. Students are expected to learn about the diversity that exists in the field of biology as well as to actively engage in the process of scientific inquiry. IB Biology will focus on inquiry based reasoning methods that allow students to become aware of how the scientific community works and communicates. These methods will involve the formation, testing, and modification of hypotheses through observation, experimentation, collection, and analysis of data. At the end of the course, students will be expected to collaborate, utilize informational technology skills, appreciate scientific limitations and possibilities, and understand the significance of the scientific process. Students will have the opportunity to demonstrate their learning through an external assessment at the end of the course and an internal assessment throughout the course. This course operates on a 5.0 grading scale.

IB Chemistry-Higher Level	**11th A (D10531) 12th A (D10541)**	**11th B (D10532) 12th B (D10542)**	**all pathways**	**NCAA**	**2 Credit**

IB Chemistry is a course designed to prepare the student for further study of pure and applied sciences in higher education. Students will develop the ability to analyze scientific literature critically and to develop manipulative and experimental skills necessary to perform college level scientific investigations. The course will help students gain an awareness of the moral, ethical, social, economic and environmental implications of science and technology.

Chemistry Higher level will focus on inquiry based methods that allow students to become aware of how the scientific community works and communicates. These methods will involve the formation of, testing, and modification of hypotheses through observation, experimentation, collection and analysis of data. As a result of the method of study in this course, students will be expected to collaborate with other students, compile the information learned in the course, and demonstrate an understanding of scientific limitations and endless possibilities. Students will have a firm understanding of the scientific process. Throughout the course, students will be evaluated internally, and will have the opportunity to demonstrate their learning through external assessment.

The laboratory time for the course will develop student skills in design, data analysis, and conclusion and evaluation techniques. Students will become proficient in using laboratory equipment and representing and interpreting data.

Students are required to have completed CHS Honors Chemistry or Chemistry prior to taking this course. This course operates on a 5.0 grading scale.

IB Mathematics: Analysis & Approaches-Standard Level	**11th A (E10775) 12th A (E10779)**	**11th B (E10776) 12th B (E10780)**	**all pathways**	**NCAA**	**2 Credit**

This course is designed for students who enjoy developing their mathematics to become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking. They will explore real and abstract applications, sometimes with technology, and will enjoy the thrill of mathematical problem solving and generalization. This course focuses on analytic methods with an emphasis on calculus. This subject is aimed at students who will go on to study subjects with substantial mathematics content such as mathematics itself, engineering, physical sciences or some economics courses. The second year of this course operates on a 5.0 scale.

IB Mathematics: Application & Interpretation-Standard Level	**11th A (E10773) 12th A (E10777)**	**11th B (E10774) 12th B (E10778)**	**all pathways**	**NCAA**	**2 Credit**

This course will be offered for students who are interested in developing their mathematics for describing our world, modeling and solving practical problems using the power of technology. Students who take this course will be those who enjoy mathematics best when seen in a practical context. This course has an emphasis on statistics, modeling and the use of technology. This subject is aimed at students who will go on to study subjects such as social sciences, natural sciences, medicine, statistics, business, some economics courses, psychology and design.

IB History-Higher Level	**11th A (C10171) 12th A (C10181)**	**11th B (C10172) 12th B (C10182)**	**all pathways**	**NCAA**	**2 Credit**

This class will focus on the historical knowledge of the past 350 years of human history. The process of recording history, reconstructing and interpreting the past through sources will be studied. In addition, students will gain an understanding of historical events in a global context. Students will investigate the continuity and change of various time periods, cultures, political systems, and national traditions. Historical study gives students exposure to primary sources and the work of historians. Historical study involves both selection and interpretation of data and critical evaluation of it. This study of history both requires and develops the student's understanding of people living in other periods and context as well as human empathy. IB World History is taught over two years. Primary topics include: Origins and development of authoritarian and single-party states, causes and effects of 20th century wars including: WWI, WWII, and Vietnam, Royal absolutism and the enlightenment, Imperial Russia, revolution and the establishment of the Soviet Union, European states in the inter-war years. Case study: The move to global war in Germany and Japan. This class includes both internal and external assessments. This course operates on a 5.0 grading scale.

IB Psychology-Standard Level	**A (C10191)**	**B (C10192)**	**all pathways**	**NCAA**	**1 Credit**

This course can be used as either an International Baccalaureate Group 3 selection or as an IB elective. Students can take the course in either the junior or senior year. IB Psychology is the study of human behavior. Students learn to design and execute experiments as well as to interpret their findings. Content of the course includes a study of psychologists and their theories as well as the most recent research findings across the various fields of the discipline. Students will study biological, cognitive, and sociocultural levels of analysis. In addition, students will study abnormal psychology and construct a simple experimental research study for their internal assessment. A primary emphasis in this course is on utilizing appropriate research to support points made in essays and class discussions. Students will sit for the three-hour, standard level IB examination in May. This course operates on a 5.0 grading scale.

IB Music Performance-Standard Level	**A (J20601)**	**B (J20602)**	**all pathways**		**1 Credit**

This standard level course is divided into two sections: music performance, and music theory/history/world music. The music performance section will involve the enrollment in the high school band, orchestra, choir, or suitable performing ensemble as approved by the instructor. The music theory/history/world music section will help the students gain an understanding and appreciation for music of all genres. Special emphasis will be placed upon student understanding of music theory, the use of musical terminology, the evolution and history of “Western Music” and the

study of music from around the globe. At the end of the first year, students will complete and record one or more public performances, will complete a listening paper, and will prepare a written media script investigating the relationships between two musical genres. Students who enroll in this course must also enroll in IB Music Theory (which operates on a 5.0 grading scale).

IB Music Theory-Standard Level	**A (J20611)**	**B (J20612)**	**all pathways**		**1 Credit**
This course seeks to develop students' knowledge and potential as musicians, both personally and collaboratively. IB Diploma Programme music students are required to study musical perception and actively listen to a wide range of music from different parts of the world, musical cultures and time periods. They also develop aural perception and understanding of music by learning about musical elements, including form and structure, notations, musical terminology and context. Through the course of study, students become aware of how musicians work and communicate. In addition, the course enables students to: • enjoy lifelong engagement with the arts • become informed, reflective and critical practitioners in the arts • understand the dynamic and changing nature of the arts • explore and value the diversity of the arts across time, place and cultures • express ideas with confidence and competence • develop perceptual and analytical skills • develop their knowledge and potential as musicians, both personally and collaboratively. This course runs during zero hour and must be taken concurrently with IB Music Performance.					

BUSINESS, MANAGEMENT, FINANCE & MARKETING			
Course Title	**Length**	**Grade Offered**	**Prerequisite**
Accounting	2 semesters	9, 10,11,12	None
Advanced Accounting	2 semesters	10,11,12	Accounting
Accounting 3	1 semester	11,12	Accounting, Adv. Accounting, & Teacher Rec
Building Wealth	1 semester	10,11,12	None
Business Management	1 semester	9, 10,11,12	None
Business Entrepreneurship	1 semester	10,11,12	Business Management is strongly encouraged, but not required.
Business Law	1 semester	11,12	None
Business 3	1 semester	11,12	Business Management, Business Entrepreneurship, Business Law & Teacher Rec.
Marketing & Advertising	1 semesters	9, 10,11,12	None
Marketing 2 School Store Workshop	2 semesters	10,11,12	Marketing & Advertising & Teacher Rec
Marketing 3	1 semester	11,12	Marketing & Advertising, Marketing 2, & Teacher Rec.
Work Based Learning	1 or 2 semesters	11, 12	Application

Career Pathways:

a = arts and communications
b = business, management, marketing & technology
e = engineering and industrial
h = human services
n = natural resources
s = health services

Accounting	**A (G20171)**	**B (G20172)**	**b**		**1 Credit**
The first half of this course introduces students to basic bookkeeping principles needed for owning or setting up his/her own business. It shows the procedures and forms used in everyday business transactions for service and merchandising businesses. Students will use data to determine business profit/loss and other financial information. Business forms and procedures are also covered, such as payroll, sales tax, and tax forms. The second half of this course works on the sole proprietorship and corporate aspects of accounting. Business forms and financial statements will be compiled and looked at in greater depth. Payroll, uncollectible accounts, taxes, inventory methods and depreciation of assets will be discussed as well. This class is computer based for most assignments. **Approved as math elective credit.**					
Grade(s) Taught: 9, 10, 11, 12	Prerequisites: None				

Advanced Accounting	**A (G20191)**	**B (G20192)**	**b**		**1 Credit**
The first half of this course is designed to provide students with the opportunity to apply concepts learned in accounting in a more in-depth fashion. Review of payroll, bad debts, depreciation and accrued revenues and expenses are covered. Students integrate computer software to complete departmental accounting and project simulations. The second half of this course works with corporate and managerial accounting principles. It looks at how cash is used in businesses for merchandise and financial reporting. This course also looks at auditing and tax information and forms for the IRS, creating financial statements with stocks and dividends, and how the end of the year accounting works. Automated versions of simulated accounting software (Quickbooks) will be done on the computer throughout this course. This class is computer based for most assignments. **Approved as math elective credit.**					
Grade(s) Taught: 10, 11, 12	Prerequisites: Accounting				

Accounting 3	**(G10504)**	**b**		**.5 Credit**
Students who have completed this career pathway of study may request this course to take a deeper hands on learning experience within the pathway curriculum. This course may require work based learning experiences as a part or all of the learning experience.				
Grade(s) Taught: 11, 12	Prerequisite: Accounting, Advanced Accounting, Building Wealth & Teacher Recommendation			

Building Wealth	**(G20300)**	**b**		**.5 Credit**
Empowering students to make sound financial decisions for life. Building Wealth focuses on the basics of how to make informed personal financial decisions. The class follows text created specifically for high school students. Along with entertaining video lessons, teaching, and activities, the concepts taught in this class will show students how to take control of their money, build wealth and to help avoid huge money mistakes down the road. Real world topics covered are: saving, investing, budgeting, credit & debt, wealth building, college expenses, consumer awareness, careers & employee benefits, insurance, income and payroll taxes and housing/renting/leasing. Every day, every lesson will matter. These will be lessons that will make a difference in the choices you make with your money every day of your life**. Approved as a math elective credit.**				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Business Management	**(G10014)**	**all pathways**		**.5 Credit**
Business Management is designed to give the student an understanding of how businesses operate and how to start and manage a business successfully. Students will study a variety of topics related to different elements of business management, including business ethics, the many forms of business organization, human resources, and financial management. Students will master software skills in word processing, presentation software and other digital tools. Students will be provided the opportunity to achieve Microsoft Office Specialist (MOS) Expert Certification. **Approved as math elective credit.**				
Grade(s) Taught: 9, 10, 11, 12	Prerequisite: None			

Business Entrepreneurship	**(G10015)**	**all pathways**		**.5 Credit**
Students will participate in the development of a new business plan. Students will be required to investigate and make choices about themselves, and their chosen business while they write a formal business plan. Additional areas of study will include business communications, economics and financial risks, time management, problem-solving, and teamwork. Students will master software skills in spreadsheets, databases, and other digital tools. Students will be provided the opportunity to achieve Microsoft Office Specialist (MOS) Expert &/or Entrepreneurship Small Business (ESB) certification. **Approved as math elective credit.**				
Grade(s) Taught: 10, 11, 12	Prerequisite: Business Management is strongly encouraged, but not required			

Business Law	**(G20430)**	**b, h**		**.5 Credit**
This course familiarizes students with the basics of business and personal law. The interdependence of business and law will be discussed, showing the legal requirements in everyday business transactions. The class shows the impact law has on students' lives and the process for seeking help should legal assistance be necessary. Legal documents, tax laws, consumer rights, employee/employer responsibilities, and contracts are discussed in depth.				
Grade(s) Taught: 11, 12	Prerequisite: None			

Business 3	**(G10401)**	**b**		**.5 Credit**
Students who have completed this career pathway of study may request this course to take a deeper hands on learning experience within the pathway curriculum. This course may require work based learning experiences as a part or all of the learning experience.				
Grade(s) Taught: 11, 12	Prerequisite: Business Management, Business Entrepreneurship, Business Law & Teacher Recommendation			

Marketing & Advertising	**(G20315)**	**all pathways**		**.5 Credit**
In marketing & advertising class students will find out what it takes to market a product or service in today's fast-paced business environment. Learn the fundamentals of the marketing mix using real-world business examples, lessons and activities. Students will create an advertising campaign, including designing engaging print ads, radio and tv commercials, social media, event planning and more. They will experience hands-on projects working both independently and in small groups using technology to simulate a creative business work environment. Students have the opportunity to combine classroom learning with an introduction to"on-the-job" training through the state-of-the-art student run CHS School Store. This class helps to prepare students for both college and careers in business but has a wide application to many fields and interests. College credit may be given at participating colleges. **Approved as a math elective credit.** *Extra-Curricular Learning Experience:* Students will have the opportunity to participate in DECA (Professional Marketing Club) if they choose. DECA is available for students interested in challenging and developing their business and marketing skills. This organization offers many benefits and exciting activities for marketing students including competitions, awards, scholarships, job opportunities and travel. DECA is an optional extra-curricular activity;				

however, is a great way to apply what they have learned in the course, explore careers and build resume experience.	
Grade(s) Taught: 9, 10, 11, 12	Prerequisite: None

Marketing II & School Store Workshop	**A (G20317)**	**B (G20318)**	**all pathways**		**1 Credit**
This course is the second class in the Marketing program. Students will continue to expand their knowledge on the foundations learned in Marketing & Advertising class, diving deeper into all facets of marketing with real-world lessons and activities working both independently and in small groups. Greater emphasis is placed on project-oriented assignments, school store involvement and simulations. Students will combine classroom learning with hands-on experience operating and marketing the student run CHS School Store. In addition to participating in the day-to-day store operations, they will have opportunities to help choose, design and price items for sale in the store - meeting with vendors and making recommendations as needed. To advertise the store, students will design and build eye catching window displays, create appealing ads, social media and engaging contests to promote the store and merchandise. Utilizing the latest technology available, students will participate in an interactive Social Media Advertising Campaign Simulation with certificate of training & completion. They will also be provided an opportunity to earn industry recognized certification in related areas such as Google Digital Marketing and/or Microsoft Powerpoint. College credit may be given at participating colleges. This class may be taken more than once with approval. **Approved as math elective credit.** *Extra-Curricular Learning Experience:* Students will have the opportunity to participate in DECA (Professional Marketing Club) if they choose. DECA is available for students interested in challenging and developing their business and marketing skills. This organization offers many benefits and exciting activities for marketing students including competitions, awards, scholarships, job opportunities and travel. DECA is an optional extra-curricular activity; however, is a great way to apply what they have learned in the course, explore careers and build resume experience.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Marketing & Advertising and Instructor Approval				

Marketing 3	**(G10505)**	**b**		**.5 Credit**
Students who have completed this career pathway of study may request this course to take a deeper hands on learning experience within the pathway curriculum. This course may require work based learning experiences as a part or all of the learning experience.				
Grade(s) Taught: 11, 12	Prerequisite: Marketing & Advertising, Marketing II, and Instructor Approval			

Work-Based Learning	**A (G20491)**	**B (G20492)**	**all pathways**	**.5 Credit - 3.0 Credits**
WBL is a course in which students advance their understanding of a specific career through work experience with local employers augmented and enhanced by intermittent and individualized career planning projects. Student's that do not have a work experience that last the entire semester will attend class during their assigned hour(s) and complete a career planning project that will enhance and augment their working experience. All students will be in school part of the day and acquire work experience through early dismissal. All students that have lapses in working opportunities will revert to classroom attendance and progress their learning through research and the completion of the career planning project. Students usually work or volunteer 10-24 hours per week or up to the maximum permitted by the Child Labor Laws. To be eligible for one-hour WBL, the student must have earned a minimum number of credits,				

enabling the student to graduate if they do not earn credit for WBL. Students must have taken a course related to their career and their job placement must match their career study in their EDP. Applications must be submitted to the Coordinator.	
Grade(s) Taught: 11, 12	Prerequisites: Application

COMPUTER INFORMATION SYSTEMS & PROBLEM SOLVING			
Course Title	**Length**	**Grade Offered**	**Prerequisite**
A.P. Computer Science Principles (An Introduction to Programming)	2 semesters	9, 10, 11, 12	Algebra 1 & Teacher Rec.
A.P. Computer Science	2 semesters	10, 11, 12	AP Computer Science Principles
Computer Programming 3	1 semester	11, 12	AP Computer Science Principles, AP Computer Science, & Teacher Rec.
Computer Networking 1 (PC Tech)	1 semester	9, 10, 11, 12	None
Computer Networking 2 (Net Tech)	1 semester	10, 11, 12	Computer Networking 1
Computer Networking 3	1 semester	10, 11, 12	Computer Networking 1, Computer Networking 2, & Teacher Rec.
Web Design 1	1 semester	9, 10, 11, 12	None
Web Design 2	1 semester	10, 11, 12	Web Design 1
Web Design 3	1 semester	11, 12	Web Design 1, Web Design 2, & Teacher Rec.

Career Pathways:
a = arts and communications
b = business, management, marketing & technology
e = engineering and industrial
h = human services
n = natural resources
s = health services

A.P. Computer Science Principles (An Introduction to Programming)	**A (G10314)**	**B (G10315)**	**a, b**	**NCAA**	**1 Credit**
AP Computer Science Principles introduces all students to the foundational concepts of computer science and programming. Students will be exposed to and practice all fundamental programming and problem- solving concepts. The course challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving through the development of real-world applications, AP Computer Science Principles prepares students for college and career. This course is designed for all students and all future majors, not just computer scientists! To be eligible to take the AP exam, students must take both semesters. This course operates on a 5.0 grading scale. **Approved as math elective or science elective credit.**					
Grade(s) Taught: 9, 10, 11, 12	Prerequisites: Algebra I or Teacher Recommendation				

A.P. Computer Science	**A (G10341)**	**B (G10342)**	**a, b**	**NCAA**	**1 Credit**
Students are exposed to the AP Computer Science programming language with an emphasis on problem solving methods. The programming skills that students will be exposed to will reflect those programming skills required for the AP Computer Science Exam. This course operates on a 5.0 grading scale. **Approved as math elective or science**					

elective credit.	
Grade(s) Taught: 10, 11, 12	Prerequisites: AP Computer Science Principles & Teacher Recommendation

Computer Programming 3	**(G10500)**	**a, b**		**.5 Credit**
Students who have completed the career pathway of study may request this course to take a deeper hands on learning experience within the pathway curriculum. This course may require work based learning experiences as a part or all of the learning experience.				
Grade(s) Taught: 11, 12	Prerequisite: AP Computer Science Principles, AP Computer Science, & Teacher Recommendation			

Computer Networking 1 (PC Tech)	**(G10361)**	**a, b**		**.5 Credit**
Students are exposed to the components of the computer system and how they work together. The concepts and hands-on practical skills learned reflect those skills required to take the industry standard A+ certification test.				
Grade(s) Taught: 9, 10, 11, 12	Prerequisite: None			

Computer Networking 2 (Net Tech)	**(G10362)**	**a, b**		**.5 Credit**
Students are exposed to the concepts of networking and computer communications. The concepts and hands-on practical skills learned reflect those skills required to take the industry standard Network+ certification test.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Computer Networking 3	**(G10502)**	**a, b**		**.5 Credit**
Students who have completed the career pathway of study may request this course to take a deeper hands on learning experience within the pathway curriculum. This course may require work based learning experiences as a part or all of the learning experience. This course can be taken more than once for additional certifications in Security, Linux or other advanced networking certifications.				
Grade(s) Taught: 11, 12	Prerequisite: Computer Networking 1, Computer Networking 2, & Teacher Recommendation			

Web Design 1	**(G10301)**	**a, b**		**.5 Credit**

Students will learn the basics of html and css, Students will learn and demonstrate understanding of industry standards in Website design as it relates to the ethical use and sharing of information with an emphasis in career and employability measures.	
Grade(s) Taught: 9, 10, 11, 12	Prerequisite: None

Web Design 2	**(G10302)**	**a, b**		**.5 Credit**
Students will expand on the use of html and web design software to include the use of databases and other advanced programming measures. Students will gain these skills through the development of a working interactive website while focusing on employability skills, leadership, teamwork, and project development skills.				
Grade(s) Taught: 10, 11, 12	Prerequisite: Web Design 1			

Web Design 3	**(G10303)**	**a, b**		**.5 Credit**
Students who have completed this career pathway of study may request this course to take a deeper hands on learning experience within the pathway curriculum. This course may require work based learning experiences as a part or all of the learning experience.				
Grade(s) Taught: 11, 12	Prerequisite: Web Design 1, Web Design 2 & Teacher Recommendation			

ARCHITECTURE, ENGINEERING AND DESIGN TECHNOLOGY			
Course Title	**Length**	**Grade Offered**	**Prerequisite**
Interior Design	1 semester	10,11,12	None
Architecture 1	1 semester	9, 10,11,12	None
Architecture 2	1 semester	10,11,12	Architecture 1
Civil Engineering & Architecture	2 semesters	10,11,12	C or better in Architecture 1 & 2, Alg 1 **and** Geometry
Architecture 3	1 semester	11,12	Interior Design, Architecture 1, Architecture 2, Civil Eng. & Arch, & Teacher Rec.
Construction Tech 1	2 semesters	9, 10,11,12	None
Construction Tech 2	2 semester	10,11,12	Construction Tech 1
Construction Tech 3	2 semesters	11, 12	Construction Tech 1 & 2
Construction Math	2 semesters	12	Enrollment in Construction Tech
Mechanical Engineering 1	1 semester	9, 10,11,12	None
Mechanical Engineering 2	1 semester	10,11,12	Mechanical Engineering 1
Engineering Graphics	2 semesters	10,11,12	Mechanical Engineering 1 & 2
Mechanical Engineering 3	1 semester	11, 12	Mech. Engineer. 1, Mech. Engineer. 2, Engineer. Graphics, & Teacher Rec.

Career Pathways:
a = arts and communications
b = business, management, marketing & technology
e = engineering and industrial
h = human services
n = natural resources
s = health services

Interior Design	**(K20850)**	**a, b**		**.5 Credit**
This course is designed to provide students with skills necessary to create a personal house. Class activities will develop your "designer's eye," combining the elements and principles of design to create a harmonious interior. Projects are integrated throughout the course to provide applications in architecture, furniture styles, floor planning and interiors. College credit may be available through various colleges.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Architecture 1	**(I20600)**	**e, n, a**		**.5 Credit**
An introductory course in drafting, design, and CAD with an emphasis on architecture. Students learn to create blueprints of structures. This course is a prerequisite to Architecture 2 and Civil Engineering & Architecture. **Approved as math elective credit.**				
Grade(s) Taught: 9, 10, 11, 12	Prerequisite: None			

Architecture 2	**(I20651)**	**e, n, a**		**.5 Credit**
Advanced course in computer-aided drafting & design emphasizing on architecture using 2-D CAD software. The drawings completed in this course apply basic dimensioning and drawing techniques while learning architectural CAD. Application of 2-D geometry skills are utilized throughout the course. **College credit may be available from local community colleges upon completion of both Architecture 1 and Architecture 2.**				
Grade(s) Taught: 10, 11, 12	Prerequisite: Architecture 1			

Civil Engineering and Architecture	**A (I20631)**	**B (I20632)**	**e, n, a**		**1 Credit**
The CEA course is a long--term project that involves the development of a property site for residential and commercial design. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of this property. The course provides freedom to the teacher and students to develop the property as a simulation or to model the real--world experiences that civil engineers and architects experience when developing property. Students learn about documenting their project, solving problems, and communicating their solutions to their peers and members of the professional community. **Approved as math elective credit. College credit may be available through various colleges and universities.**					
Grade(s) Taught: 11, 12	Prerequisites: C or better in Architecture 1, Architecture 2, Algebra 1 and Geometry or Teacher Approval.				

Architecture 3	**(I20605)**	**e, n, a**		**.5 Credit**
Students who have completed this career pathway of study may request this course to take a deeper hands on learning experience within the pathway curriculum. This course may require work based learning experiences as a part or all of the learning experience.				
Grade(s) Taught: 11, 12	Prerequisite: Architecture I, Architecture II, Interior Design, Civil Engineering and Architecture & Teacher Recommendation			

Construction Tech 1	**A (I20001)**	**B (I20002)**	**b, e, n, a**		**1 Credit**
This course is an introduction to construction and related industries. Areas of study include safety, architectural drawings, scale model building, green construction techniques, manufacturing and the use of equipment used in industry. This class will be offered at CJHS with transportation provided by the district.					
Grade(s) Taught: 9, 10, 11, 12	Prerequisites: None				

Construction Tech 2	**A (I20003)**	**B (I20004)**	**b, e, n, a**		**1 Credit**
This course is an immersive learning experience in construction and related industries. Students will use and improve the skills they learned in Construction Technology 1. Areas of study include business and technology skills used in industry, site preparation, infrastructure, residential construction, civil construction and heavy machinery. In addition					

to focused practice, students will potentially be building projects for the community. Students will have an opportunity to be involved in work based learning. Within their studies in Construction Tech 2, students will be utilizing a cross-curricular approach to exploring skilled trades with an emphasis in real-world mathematics and business/technical writing. This class will be offered at CJHS with transportation provided by the district.	
Grade(s) Taught: 10, 11, 12	Prerequisites: Construction Tech 1

Construction Tech 3	**A (I20005)**	**B (I20006)**	**b, e, n, a**		**1 Credit**
Students who have completed the career pathway of study may request this course to take a deeper hands on learning experience within the pathway curriculum. This course may require work based learning experiences as a part or all of the learning experience.					
Grade(s) Taught: 11, 12	Prerequisites: Construction Tech 1, Construction Tech 2 & Instructor approval				

Construction Math	**A (E10110)**	**B (E10111)**	**b, e, n, a**		**1 Credit**
This course is a 4th year math course for seniors concurrently enrolled in the Construction Tech program. Curricular goals include a survey of the areas of math related to construction (general math, fractions, decimals, measurement and measurement tools, layout, area measure, volume measure) and preparation for certification test(s) for college work related to construction and careers in construction. **Approved as math elective credit.**					
Grade(s) Taught: 12	Prerequisites: Enrollment in Construction Tech				

Mechanical Engineering 1	**(I20620)**	**e, a**		**.5 Credit**
An introductory course in drafting, design, and CAD emphasizing on mechanical engineering. This class combines the understanding of basic math and science principles with practical applications. Students learn the design process using drafting techniques. This course is designed for students who may want to pursue a career in the engineering field. This is a prerequisite to Mechanical Engineering 2 and Engineering Graphics.				
Grade(s) Taught: 9, 10, 11, 12	Prerequisite: None			

Mechanical Engineering 2	**(I20652)**	**e, a**		**.5 Credit**
Advanced course in mechanical engineering that builds 2-D CAD skills while introducing advanced drafting skills. Orthographic projection, section and auxiliary views and fastening methods are introduced. 3D CAD model building is introduced. Students also explore the world of 3D fabrication seeing their designs come to life. **College credit may be available from local community colleges upon completion of both Mechanical Engineering 1 and Mechanical Engineering 2.**				
Grade(s) Taught: 10, 11, 12	Prerequisite: Mechanical Engineering 1			

Engineering Graphics	**A (I20641)**	**B (I20642)**	**e, a**		**1 Credit**
This is an advanced Computer Aided Design class using 3D modeling software. Students will learn how to create objects in 3-D and assemble parts together to create working drawings. Emphasis will be placed on producing engineering drawings that are fully machinable. Students continue to develop their 3-D fabrication skills seeing their designs come to life. **Approved as math elective credit. College credit may be available from local community colleges.**					
Grade(s) Taught: 11, 12	Prerequisites: Mechanical Engineering 1 and Mechanical Engineering 2				

Mechanical Engineering 3	**(I20653)**	**e, a**		**.5 Credit**
Students who have completed this career pathway of study may request this course to take a deeper hands on learning experience within the pathway curriculum. This course may require work based learning experiences as a part or all of the learning experience.				
Grade(s) Taught: 11, 12	Prerequisite: Mechanical Engineering 1, Mechanical Engineering 2, Engineering Graphics & Teacher Recommendation			

EDUCATION AND FAMILY CONSUMER SCIENCES			
Course Title	**Length**	**Grade Offered**	**Prerequisite**
Child Development	1 semester	10,11,12	None
Education Practicum 1	1 semester	10,11,12	None
Education Practicum 2	1 semester	10,11,12	Education Practicum 1
Education Practicum 3 (Teacher Cadet)	1 semester	11,12	Child Development, Education Practicum 1 and 2
Nutrition and Wellness	1 semester	10,11,12	None
Family Studies	1 semester	10,11,12	None
Human Relations	1 semester	10,11,12	None

Career Pathways:
a = arts and communications
b = business, management, marketing & technology
e = engineering and industrial
h = human services
n = natural resources
s = health services

Child Development (Previously titled Parenting)	**(K20901)**	**h**		**.5 Credit**
In this CTE course, students will explore the physical, intellectual, emotional, and social growth and development of young children as it relates to Education. Students will discover how prenatal care and early childhood events and experiences can influence the growth and development of children and their capacity to learn in a school setting. Students will learn the sequence of early physical growth, the continuum of brain development, the acquisition of language and the maturation of thought and emotions that occur in a child from birth to the beginning of adulthood. During this course, students will learn that a child progresses from dependency on their parents/guardians to increasing independence and autonomy. Students will recognize the importance of observation, commitment, and early detection and intervention on developing children as they strive to meet their developmental milestones. **1 college credit possible upon completion.**				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Education Practicum 1 **(Previously titled PreSchool Practicum 1)**	**(K20902)**	**h**		**.5 Credit**

This Education Practicum A-1 Class is a fast paced, interactive introduction to the early elementary classroom. In this class, students will be working in one of our district's elementary schools or in one of our Preschool classrooms at the Early Childhood Center or Clarkston High School. Students will be assigned to a classroom based on age level interests, content interests, as well as the ability to leave the Clarkston High School campus with their own transportation. Although having your own transportation and the ability to leave CHS is not a requirement for this class, it is encouraged as there is limited availability of placements at the high school. Students will be assigned to one classroom for the majority of the semester in order to build strong, working relationships with mentor teachers, students and families. Students must be able to work independently, with a group or team and very much enjoy children. Topics of study include, but are not limited to, developmental milestones for young learners, conducting organic, authentic observations of students and classrooms, daily, personal reflections, exploration of art, math and literacy in an early childhood/educational setting, the importance of play and how to teach/learn in well thought out play scenarios, creating a newsletter or bulletin board, designing and implementing a student-led activity while in their placements. **In order to qualify for OCC credit, you may not miss more than 5 class days AND complete the class with a 90% or higher. One college credit possible upon completion.**

Grade(s) Taught: 10, 11, 12	Prerequisite: None

Education Practicum 2 **(Previously titled PreSchool Practicum 2)**	**(K20903)**	**h**		**.5 Credit**

This Education Practicum B-2 Class is the **second** class in the Education Practicum offerings. Students taking this course are typically considering a career in Education. This class is also a fast paced, interactive experience in the early elementary classroom. In this class, students will be working in one of our district's elementary schools or in one of our Preschool classrooms at the Early Childhood Center or Clarkston High School. Students will be assigned to a classroom based on age level interests, content interests as well as the ability to leave the Clarkston High School campus with their own transportation. Although having your own transportation and the ability to leave CHS is not a requirement for this class, it is encouraged as there is limited availability of placements at the high school. Students will generally be assigned to one classroom for the majority of the semester in order to build strong, working relationships with mentor teachers, students and families. Students must be able to work independently, with a group or team and enjoy children. Students will need to work independently and manage their time wisely in order to complete these assignments on time, while attending their placement 4 days/week. Topics of study will build upon the ideas, concepts and practices from the Education Practicum A-1 Class and will additionally include, but are not limited to, developmental milestones for young learners, conducting organic, authentic observations of students and classrooms, daily, personal reflections, exploration of art, math and literacy in an early childhood/educational setting, the importance of play and how to teach/learn in well thought out play scenarios, creating a classroom floor plan, exploration of teaching as a career, conflict resolution and meeting the needs of students with special needs. **In order to qualify for OCC credit, you may not miss more than 5 class days AND complete the class with a 90% or higher. One college credit possible upon completion.**

Grade(s) Taught: 10, 11, 12	Prerequisite: Education Practicum 1

Education Practicum 3 (Teacher Cadet)	**(K20904)**	**h**		**.5 Credit**
Students who have completed this career pathway of study may request this course to take a deeper hands on learning experience within the pathway curriculum. This course may require work based learning experiences as a part or all of the learning experience.				
Grade(s) Taught: 11, 12	Prerequisite: Child Development, Education Practicum 1, Education Practicum 2 & Teacher Recommendation			

Nutrition & Wellness	**(K20830)**	**h, s**		**.5 Credit**
Do you have a passion for health and wellness? In Nutrition and Wellness we will explore the latest in "Functional Nutrition". We will look at ways to improve health and wellbeing through food choices. Topics to be studied include: Food Influences, Food Safety, Digestive Health, Learning to read a Food Label, Nutritional Needs across the lifespan, Relationships between diet and disease, Eating for sports performance or overall wellness, investigate healing foods vs. inflammatory foods, and examine nutrition related careers. Students will also be able to prepare and sample basic healthful recipes.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Family Studies	**(K20831)**	**h**		**.5 Credit**
This course is designed to prepare students for different needs in each stage of the life cycle. We go in depth to discuss each stage and the rewards and challenges. Life Cycle Stage topics are singlehood, coupling, marriage, parenting, middle age and aging. We also will learn about recognizing and coping with stress and family crises that may come up in the different stages. This course is geared to help students understand themselves and how to improve family relationships. There is much class discussion, group work and projects.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Human Relations	**(K20832)**	**h**		**.5 Credit**
This course is designed to prepare students for successful relationships. Topics to be discussed throughout the course include, Building blocks of relationships (self esteem, self awareness, and identity), Attraction, Stages of a Relationship/Love vs. Infatuation, Friendship, Mature Love/Marriage, STIs (Sexually Transmitted Infections), Contraceptives, Dating Violence Awareness, and Sexual Assault Prevention.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

MEDIA			
Course Title	**Length**	**Grade Offered**	**Prerequisite**
Media Production	1 semester	9, 10,11,12	None
P.M. Television Production	1 semester	10,11,12	Media Production

Career Pathways:

a = arts and communications
b = business, management, marketing & technology
e = engineering and industrial
h = human services
n = natural resources
s = health services

Media Production	**(I20310)**	**a, b**		**.5 Credit**
This course focuses on the technology and skills used to record and edit digital video and audio. Students will have an opportunity to create short films, documentaries, and commercials. This class teaches students the technology used to create original videos for use on the Internet and discusses the history of film. This course can be taken more than one time for credit.				
Grade(s) Taught: 9, 10, 11, 12	Prerequisite: None			

P.M. Television Production	**(I20300)**	**a, b**		**.5 Credit**
This course focuses on the technology and skills used in the production of live and pre-taped television broadcasts. Students will plan for and produce live school events and create highlight reels. This is a hands-on experience that builds teamwork and communications skills. This course is designed to be an evening class. Students taking this class must be able to accommodate an evening schedule. Class will generally meet at least one evening per week. Students will be released from school 1 hour early in lieu of having an evening class if they attend evening productions.				
Grade(s) Taught: 10, 11, 12	Prerequisite: Media Production			

PERFORMING ARTS			
Course Title	**Length**	**Grade Offered**	**Prerequisite**
Wind Ensemble	2 semesters	10,11,12	Teacher Recommendation
Symphonic Band	2 semesters	10,11,12	Teacher Recommendation
Symphonic Wind Ensemble	2 semesters	10,11,12	Audition/Teacher Recommendation
Symphony Orchestra	2 semesters	10,11,12	Teacher Recommendation
Chamber Orchestra	2 semesters	10,11,12	Teacher Recommendation
Jazz Ensemble (Zero Hour)	2 semesters	10,11,12	Co-requisite: Band or Orchestra & Teacher Rec
Concert Choir	2 semesters	10,11,12	None
Madrigals	2 semesters	10,11,12	Audition

Career Pathways:

a = arts and communications
b = business and management
h = human services and public administration
n = natural resources
s = health services
e = engineering and industrial

Wind Ensemble	**A (J20321)**	**B (J20322)**	**all pathways**		**1 Credit**
This intermediate level concert band orients instruction toward increased awareness of musical skill and technical development. Emphasis is placed upon moderately difficult literature, interpretive ability, and music reading. Yearly required performances include four concerts, and District and State Festivals. During the first nine weeks in the fall semester, members of this band may be included in the Marching Band which performs at all home varsity football games**.**					
Grade(s) Taught: 10, 11, 12	Prerequisites: Teacher Recommendation				

Symphonic Band	**A (J20351)**	**B (J20352)**	**all pathways**		**1 Credit**
This advanced level ensemble is open to students in grades 11 and 12 as well as 10th grade students who qualify by audition and/or invitation of the instructor. As an advanced level concert band, technique, listening, interpretive, and reading skills are heavily emphasized. The required yearly performances are the same as for Wind Ensemble, including assembly programs and community service events. During the fall semester, Symphonic Band members may be included in the Marching Band which performs for all home varsity football games and selected contests.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Teacher Recommendation				

Symphonic Wind Ensemble	**A (J20371)**	**B (J20372)**	**all pathways**		**1 Credit**
This select advanced level ensemble is open to qualified students grades 10 through 12 by audition and/or instructor invitation. As the most advanced level concert ensemble, mastery of technique, interpretation, listening, and reading skills are heavily reinforced and emphasized. Yearly required performances are the same as the other concert band classes. Students in this band also may be included in the Marching Band during the fall term.					

Grade(s) Taught: 10, 11, 12	Prerequisites: Audition/Teacher Recommendation

Symphonic Orchestra	**A (J20381)**	**B (J20382)**	**all pathways**		**1 Credit**
The orchestra is comprised of students with experience playing orchestral stringed instruments (violin, viola, cello, or double bass). This intermediate to advanced level orchestra orients instruction toward increased level of musical skill and technical development. Emphasis is placed upon moderately difficult to difficult repertoire, interpretive ability, technique, musicality and music reading.There are at least four required yearly concerts, District and possibly State Festivals. Students are encouraged to play in chamber music groups, solo and ensemble festivals, and other performing opportunities in the community.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Teacher Recommendation				

Chamber Orchestra	**A (J20401)**	**B (J20402)**	**all pathways**		**1 Credit**
The orchestra is comprised of students with a high level of experience playing orchestral stringed instruments (violin, viola, cello, or double bass). This select advanced level Orchestra is open to qualified students grades 10 through 12 by instructor invitation. As the most advanced level orchestra, a mastery of technique, interpretation, listening, musicality and reading skills are expected, as well as heavily reinforced and emphasized in class. Yearly required performances are the same as the other orchestra classes, and solo and ensemble participation is strongly encouraged/expected.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Teacher Recommendation				

Jazz Ensemble	**A (J20391)**	**B (J20392)**	**all pathways**		**1 Credit**
A select group of students will form this group by invitation and audition. Music includes all styles of jazz with the emphasis on improvisation. Students must be willing to perform frequently beyond classroom participation, including concerts, assemblies, and festivals. Concurrent enrollment in a concert band, orchestra or vocal ensemble is required for this ensemble. **This course is only offered Zero hour.**					
Grade(s) Taught: 10, 11, 12	Prerequisites: Teacher Recommendation Co-requisite Concert Band or Orchestra				

Concert Choir	**A (J20411)**	**B (J20412)**	**all pathways**		**1 Credit**
This is a choir for all students in grades 10-12. The class is designed for those who enjoy singing and have a desire to investigate music. A wide variety of music will be presented in preparation for advancement to higher level choirs. Basics of music are taught (note reading, ear training, music symbols, terminology, rhythms and note values) as well as some music history and related music activities. The choir is required to sing in approximately 1 major concert per semester (or as dictated in the choir master schedule). One performance will be at MSVMA Festival in the spring. The dates are set by the instructor.					
Grade(s) Taught: 10, 11, 12	Prerequisites: None				

Madrigals	A (J20501)	B (J20502)	all pathways		1 Credit
This is a select, auditioned mixed vocal ensemble who have demonstrated knowledge through prior experience either at the high school or middle school levels. A wide variety of music repertoires will be studied and related opportunities given to enhance music knowledge and excel in choral music performance. There are required concerts throughout the year (dates set by the instructor) and one given MSVMA Festival in the spring.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Audition in spring of previous school year.				

VISUAL ARTS			
Course Title	**Length**	**Grade Offered**	**Prerequisite**
Art History	1 semester	10,11,12	None
Art Introduction	1 semester	10,11,12	None
Design	1 semester	10,11,12	Art Introduction
Digital Photography	1 semester	10,11,12	None
Advanced Digital Photography	1 semester	10, 11, 12	Digital Photography
Drawing	1 semester	10,11,12	Art Introduction
Mixed Media/Sculpture	1 semester	10,11,12	None
Digital Illustration	1 semester	10,11,12	Art Introduction
Photoshop	1 semester	10,11,12	None
Painting	1 semester	10,11,12	Art Introduction (Drawing Recommended)
Advanced Drawing & Painting	1 semester	11,12	Art Intro, Drawing, and Painting
Mathtastic Art	1 semester	11,12	None
Video Game Design	1 semester	10,11,12	None

Career Pathways:
a = arts and communications
b = business, management, marketing & technology
e = engineering and industrial
h = human services
n = natural resources
s = health services

Art History	(C10130)	a,h		.5 Credit
In Art History, students will explore the creation and cultural/historical relevance of art through various art and architectural movements as they pertain to 2-D and 3-D art. Noteworthy artists and their creations will be observed. Students will create a variety of art projects throughout their investigations.. The material will be studied with a true regional comparative perspective. There are two field trips in this course: One to the Detroit Institute of Arts and the second is a walking tour of the Architecture in Downtown Detroit.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Art Introduction	(L20050)	all pathways		.5 Credit
This entry level art class focuses on the fundamental knowledge and skill of drawing and design. Students will create two-dimensional projects using a variety of materials, tools, techniques, and processes. The art elements will be emphasized.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Design	**(L20070)**	**all pathways**		**.5 Credit**
The emphasis of this course will be on creating 2-D compositions utilizing the principles of design. Students will learn to communicate ideas in a visual format.Careers in various design fields are explored. Some media explored in this class include pencil, colored pencil, watercolor, pastels, etc.				
Grade(s) Taught: 10, 11, 12	Prerequisite: Art Introduction			

Digital Photography	**(L20100)**	**all pathways**		**.5 Credit**
Students will learn aspects of taking pictures, the workings of a camera, as well as the manipulation of your images on the computer using Adobe Photoshop. Students will be exposed to the work of historical/famous photographers and units may include: Photojournalism, Food Photography, Fashion Photography, Nature Photography, Portrait Photography, Product Photography etc.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Advanced Digital Photography	**(L20101)**	**all pathways**		**.5 Credit**
Students will expand upon their knowledge from Digital Photography; Exploring creative manipulations of their images on the computer using Adobe Photoshop. Students will enhance their creative skills by learning more advanced techniques for taking and manipulating photographs. Students will deepen their exploration and understanding of different idea expression and creative compositions. Projects may include altering reality/composites, creative fun with lighting, enhanced portrait skills, photojournalism, playing with words and images, etc.				
Grade(s) Taught: 10, 11, 12	Prerequisite: Digital Photography			

Drawing	**(L20060)**	**all pathways**		**.5 Credit**
This advanced level course emphasizes observation and imagination as a means of creating composition. A number of drawing skills, media, and techniques are learned, while dealing with subjects, such as: portraits, figures, interiors, still life & landscape.				
Grade(s) Taught: 10, 11, 12	Prerequisite: Art Introduction			

Mixed Media/Sculpture	**(L20040)**	**all pathways**		**.5 Credit**
The student who elects this course will receive a broad-based experience in 3-D design and sculpture through the use of the elements of art and principles of design. This course will help increase the knowledge, intellectual and physical, and critical thinking of 3-D design and sculpture. The student will be involved with a wide variety of materials such as wood, wire, metals, paper products, and the appropriate skills and techniques.				

Grade(s) Taught: 10, 11, 12	Prerequisite: None

Painting	**(L20090)**	**all pathways**		**.5 Credit**
This advanced level class will explore a variety of painting mediums, techniques & styles. Mediums may include acrylic, watercolor, & gouache. Students will explore portraiture, landscape, mixed media, and famous works of art in history.				
Grade(s) Taught: 10, 11, 12	Prerequisite: Art Introduction (Drawing recommended)			

Digital Illustration	**(L20110)**	**all pathways**		**.5 Credit**
This course provides a fundamental understanding of the computer as a powerful art and design tool. Students will learn the tools and uses of Illustrator, while drawing with tablets, as they pertain to Graphic Design, Illustration, and other pertinent art fields. Digital drawing, design and painting techniques will be studied. Projects may include T-shirt Design, Illustration, Packaging design, and logo design. (Tablets Provided)				
Grade(s) Taught: 10, 11, 12	Prerequisite: Art Introduction			

Photoshop	**(L20120)**	**all pathways**		**.5 Credit**
Students will learn the tools and uses of Photoshop as they pertain to Graphics/Advertising/Marketing and other pertinent art fields. The main curriculum of this class includes the manipulation of images using Photoshop as it pertains to projects such as Movie Poster Design, Advertising Projects and manipulation of images for a variety of purposes.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Advanced Drawing & Painting	**(L20400)**	**all pathways**		**.5 Credit**
The emphasis of this course will be on drawing and painting in many forms and media. Projects will be done from direct observation as well as from the imagination. Subjects will include, but not be limited to, the portrait, landscape, and still life. Students must demonstrate the ability to work independently and engage in critical self reflection. Various subjects, styles, and techniques will be used to explore the creation and completion of several works of art. In this class students will have the opportunity to create a portfolio for possible college admission.				
Grade(s) Taught: 11, 12	Prerequisite: Art Introduction, Drawing, & Painting			

Mathtastic Art	**(L20130)**	**all pathways**		**.5 Credit**

Students will be exposed to an assortment of art mediums and create a variety of art projects through mathematical concepts. Students will learn and apply mathematical concepts in art, as well as study the history & connections between art and math using famous historical artists. Projects may include Photography, Painting, Drawing, Mixed Media, & Sculpture. **Approved as a math elective credit.**	
Grade(s) Taught: 11, 12	Prerequisite: None

Video Game Design	**(L20200)**	**all pathways**		**.5 Credit**
Using the program Construct 2, students will create a working 2 dimensional platform video game. Students will learn a bit about the history of video games, types of games, and work on plot, story, characters, backgrounds etc. Problem solving will be heavily emphasized in this class. There will not be any formal coding in this class, rather interactions with concepts of objects, actions, and interplay of elements in creating a game. No experience in programming is necessary. Art aspects of the game will be emphasized as well. For more information on the program Construct, click here				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

PHYSICAL EDUCATION

Course Title	Length	Grade Offered	Prerequisite
Physical Education/Health	1 semester	10,11,12	None
Baseball Techniques	1 semester	10, 11, 12	None
Fall Football Techniques	1 semester	10, 11, 12	None
Spring Football Techniques	1 semester	10, 11, 12	None
Lifeguard Training	1 semester	10, 11, 12	15 years old
Racquet Sports	1 semester	10, 11, 12	None
Fitness & Individual Training	1 semester	10, 11, 12	None
Stress Management	1 semester	10, 11, 12	None
Team Sports	1 semester	10, 11, 12	None
Female Team Sports & Wellness	1 semester	10, 11, 12	None
Gymnastics Elite	2 semesters	10, 11, 12	See description

Career Pathways:

a = arts and communications
b = business, management, marketing & technology
e = engineering and industrial
h = human services
n = natural resources
s = health services

Physical Education/Health	**(M20550)**	**all pathways**		**.5 Credit**
This class includes fundamental instruction in wellness, personal fitness, individual sports, team sports and activities to achieve and maintain a healthy lifestyle. Possible activities include Ultimate Frisbee, Basketball, Volleyball, Aerobic				

Dance, Badminton, 10,000 Steps and the Five components of Fitness (Defined by the FitnessGram). Students will also receive instruction in the Michigan Model Curriculum for Healthy and Responsible Relationships. **This course fulfills the PE/Health graduation requirement.**	
Grade(s) Taught: 10, 11, 12	Prerequisite: None

Note: the following courses satisfy the PE Elective requirement, But <u>NOT</u> the PE/Health requirement:

Baseball Techniques	**(M20680)**	**all pathways**		**.5 Credit**
This class is designed for the student with an interest in the game of baseball. Course content includes history, rules, techniques (offensive and defensive), hitting, pitching, conditioning, and weight training specific to the game of baseball. This class will be offered both the 1st and 2nd trimester.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Fall Football Techniques	**(M20390)**	**all pathways**		**.5 Credit**
This class is designed for the student with a very strong interest in the game of football. The history of the game, rules, techniques, specific positional skills, conditioning and strength training specific to football will be emphasized.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Spring Football Techniques	**(M20710)**	**all pathways**		**.5 Credit**
This class is designed for the student with a very strong interest in the game of football. The history of the game, rules, techniques, specific positional skills, conditioning and strength training specific to football will be emphasized.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Lifeguard Training	**(M20720)**	**all pathways**		**.5 Credit**
This course covers American Red Cross Lifeguard Training. It will teach lifeguards the skills and knowledge needed to prevent and respond to aquatic emergencies. Upon successful completion of the Lifeguard Training course, each participant will receive an American Red Cross Universal Certificate indicating Lifeguard Training and First Aid that is valid for 3 years and another indicating CPR for the Professional Rescuer that is valid for 1 year. Students are responsible for the $35 dollar fee to be paid to the Red Cross to receive their certification.				
Grade(s) Taught: 10, 11, 12	Prerequisite: 15 years old			

Racquet Sports	**(M20640)**	**all pathways**		**.5 Credit**
The student will be an active participant in the playing of tennis, badminton, paddleball, table tennis, starball and pickleball along with a variety of lifetime leisure sports and activities. The student will also be responsible for the knowledge of all playing rules for that sport.				

Grade(s) Taught: 10, 11, 12	Prerequisite: None

Fitness & Individual Training	**(M20670)**	**all pathways**		**.5 Credit**
The student will be exposed to various types of strength training and all components of physical fitness. Students will be responsible for personal fitness charts.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Stress Management	**(M20630)**	**all pathways**		**.5 Credit**
Students will become familiar with stress relieving activities that can contribute to lifelong health and wellness. Students will also learn healthy nutritional habits that are conducive to managing stress. This will be accomplished through participation in various activities which may include but are not limited to: yoga, pilates, nutrition and stressor logs.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Team Sports	**(M20580)**	**all pathways**		**.5 Credit**
The student will be an active participant in the playing of football, floor hockey, basketball, dodgeball, volleyball, indoor soccer and ultimate frisbee. The student will also be responsible for the knowledge of all playing rules for that specific sport.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Female Team Sports & Wellness	**(M20581)**	**all pathways**		**.5 Credit**
This is an elective course geared for the active female student. This course provides female students a positive, structured opportunity to participate in a safe, non judgmental environment. We will emphasize friendship, fun, and movement more than competition and achievement. Knowledge of rules, skills and strategy will be emphasized through participation in various team sports and team building activities. Some activities to be covered might be: floor hockey, basketball, soccer, volleyball, frisbee golf and ultimate frisbee. The importance of physical activity will be emphasized as they contribute to overall health and a good quality of life.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

Gymnastics Elite	**A (M80001)**	**B (M80002)**	**all pathways**		**1 Credit**
Students will work towards developing and refining the disciplines of competitive gymnastics (as set forth by USA Gymnastics) including: bars; beam; floor exercise; and vault. This class demands a four (4) to five (5) hour daily commitment, fifty-two (52) weeks a year. Monthly fees are required. Classes are held off site at the Stars and Stripes Gymnastics Academy.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Must be a level 5 female gymnast or above, must be currently enrolled as a Stars and Stripes gymnast, or be interviewed and approved by Stars and Stripes				

	and Clarkston Community Schools.

SPECIAL EDUCATION			
Course Title	**Length**	**Grades Offered**	**Prerequisite**
LRC Support	1 or 2 semesters	10, 11,,12	Teacher Rec.
Essential ELA 10	2 semesters	10	Teacher Rec.
Essential Geometry	2 semesters	10, 11, 12	Teacher Rec.
Foundational Health and Wellness			
Foundational ELA/Science/Social Studies	2 semesters	10, 11, 12	Teacher Rec.
Foundational Math/Vocational Exploration	2 semesters	10, 11, 12	Teacher Rec.
Foundational Water Recreation	1 or 2 semesters	10, 11, 12	Teacher Rec.
Personal Living Skills	1 or 2 semesters	10, 11, 12	Teacher Rec.

Career Pathways:

a = arts and communications
b = business, management, marketing & technology
e = engineering and industrial
h = human services
n = natural resources
s = health services

LRC Support	**A (S20271)**	**B (S20272)**	**all pathways**		**.5 Credit**
This course is designed to give students individual assistance in preparing for general education coursework and development of study techniques and personal adjustment. Students will also spend time working on their individual goals per I. E.P. Number of semesters is determined by I.E.P.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Teacher Recommendation				

Essential English Language Arts 10	**A (S20001)**	**B (S20002)**	**all pathways**		**1 Credit**
English Language Arts 10 is designed to help students develop an enjoyment of literature by focusing on reading, speaking, listening, and thinking. Students will engage in both creative and expository writing and will read extensively from a variety of genres including poetry, fiction, and informational texts. This course also focuses on preparing students for the Michigan Merit Exam/ SAT which will be taken during their junior year. Students will also develop skills related to their individual IEP goals.					
Grade(s) Taught: 10	Prerequisites: None				

Essential Geometry	**A (S20041)**	**B (S20042)**	**all pathways**		**1 Credit**
The lessons in this course meet prioritized geometry content standards of the Common Core State Standards for Mathematics (www.corestandards.org/math). This course embeds the CCSS Standards for Mathematical Practice as an integral part of the lessons. Students will also develop skills related to their individual IEP goals.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Algebra I and Teacher Recommendation				

Foundational Health and Wellness	**A (S80014)**	**B (S80015)**	**all pathways**		**1 Credit**
This course provides explicit instruction and hands-on activities that focus on individual physical and emotional wellness. Students will gain skills in the areas of self-advocacy, goal-setting, decision making,self-regulation, and positive behavior strategies. SElf care, reproductive health, nutrition, and participation in physical activities will be a part of this course.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Teacher Recommendation				

Foundational ELA/Science/Social Studies	**A (S80002)**	**B (S80003)**	**all pathways**		**1 Credit**
This course provides students with explicit instruction in ***language arts*** skills that align with state alternate standards (Essential Elements). Using a balanced-literacy framework for teaching language arts, four language arts areas (guided reading, self-selected reading, writing, and working with words) are integrated into reading instruction. Science and social studies content is embedded in this class. Emphasis will be placed on building individual basic skills, as well as the practical application of reading and writing as it relates to daily living, community participation and personal enjoyment.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Teacher Recommendation				

Foundational Math/Vocational Exploration	**A (S80000)**	**B (S80001)**	**all pathways**		**1 Credit**
This course provides students with explicit instruction in ***math, vocational and employability skills.*** Mathematic skills align with state alternate standards (Essential Elements). Emphasis is on building individual skills, as well as the practical application of skills related to daily living and community participation.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Teacher Recommendation				

Foundational Water Recreation	**A (S80010)**	**B (S80011)**	**all pathways**		**1 Credit**
This course provides students with physical fitness opportunities while swimming. ***Clarkston High School students only***.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Teacher Recommendation				

Personal Living Skills	**A (S20341)**	**B (S20342)**	**all pathways**		**1 Credit**
This course provides students with instruction that will build skills in activities of daily living and communication. These activities will support greater independence for students as they reach adulthood. Students will be given					

instruction and hands-on experiences in social skills, and interpersonal communication, household upkeep, safety issues, personal finance, and independent living and goal setting.	
Grade(s) Taught: 10, 11, 12	Prerequisites: Teacher Recommendation

SUPPLEMENTAL CATEGORY			
Course Title	**Length**	**Grade Offered**	**Prerequisite**
A World of Difference	2 semesters	10,11,12	Application and Interview
CHS LEAD 1 – Sophomore Leadership Development	2 semester	10	Application and Interview
CHS LEAD 2 - Junior and Senior Student Council	2 semesters	11,12	Application and Interview
Academic Seminar	1 or 2 semesters	10,11,12	CHIPS Team Rec.
Student Link	1 semester	10, 11, 12	None
S.U.M. (Students Understanding Math)	1 semester	11,12	Teacher Rec.

Career Pathways:
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h = human services n = natural resources s = health services

A World of Difference	**A (N10040)**	**B (N10042)**	**all pathways**		**1 Credit**
A World of Difference is a program with the goal to improve the culture of Clarkston Community Schools. Members will design and execute special activities at CHS to improve the lives and attitudes of CHS students. Students will be trained to present anti-bullying lessons to middle and junior high school students. Skills involved include public speaking, listening, conversing, organizing and planning, and leadership. Students will travel to the middle and/or junior high schools to deliver anti-bias lessons. Students will be expected to attend after school meetings during 2nd semester. Students must be willing to be out of school at least one day per month to travel to other schools.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Application and Interview				

Academic Seminar	**A (N11001)**	**B (N11002)**	**all pathways**		**1 Credit**
Academic Seminar is designed for students who need additional support to work on concepts covered in their courses. Students will have the opportunity to work on their homework, study for tests/and/or quizzes, and work on organizational skills. Students are required to use their planners, which will be checked daily by the teacher.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Student must be brought to CHIPS (Clarkston High School Intervention Plan) and recommended by the evaluative team for placement into the Academic Seminar.				

CHS LEADERSHIP (Leadership Education/Student Council)	**A (N10004)**	**B (N10005)**	**all pathways**		**1 Credit**
Membership in The CHS LEAD Program is by application. This course combines the base level, introductory leadership class with a focus on basic "servant leadership" skill building in personal, social, organizational, and community areas, as well as advanced communication and team building curriculum. Emphasis is placed on leadership through small and large scale school event/project planning, involved leadership training curriculum, and periodic experiential/activity-based learning. This course is open to 10th, 11th and 12th grade students who wish to participate at a higher level of involvement at CHS. Sophomores enrolled in the program will have the opportunity to work alongside the Junior and Senior members in school and community-wide initiatives. Students must reapply each year for admission to the program.					
Grade(s) Taught: 10, 11, 12	Prerequisites: Application				

Student LINK	**(N20310)**	**all pathways**		**.5 Credit**
This class is a semester course designed to facilitate awareness of individuals with special needs, the systems they require for placement in general education classes and the benefits of peer-to-peer support in the least restrictive environment. Link students will support students with special needs in a variety of settings throughout the school day at the teacher's discretion. Students may not take Student Link twice during the same semester.				
Grade(s) Taught: 10, 11, 12	Prerequisite: None			

S.U.M (Students Understanding Math)	**(N20050)**	**all pathways**		**.5 Credit**
The SUM program - Students Understanding Math is by Math Teacher recommendation only. This course is designed to support and mentor those students who struggle in math. SUM students will be facilitating students in either a support class or in a co-taught math class. They will help with math and study skills for students who are struggling. This is a semester course but a student can register for SUM for more than one semester.				
Grade(s) Taught: 11, 12	Prerequisite: B or better in Algebra II and Math Teacher recommendation			