



**CALVIN CHRISTIAN HIGH SCHOOL**  
**Curriculum Guide**  
**2019-2020**

# CALVIN CHRISTIAN HIGH SCHOOL CURRICULUM GUIDE 2019-2020

## TABLE OF CONTENTS

What We Believe / What We Practice . . . . .	2-3
Scheduling Information . . . . .	4
Overview of Courses . . . . .	5-6
Alternate Educational Opportunities . . . . .	7-8
<b><u>Courses of Study</u></b>	
Applied Technology . . . . .	9-11
Art Courses . . . . .	12-14
Bible Courses . . . . .	15-16
Educational Support Services . . . . .	17-18
English Courses . . . . .	19-21
Family & Consumer Science Courses . . . . .	22
Interdisciplinary Course . . . . .	22
Language Courses . . . . .	23-24
Mathematics Courses . . . . .	25-29
Music Courses . . . . .	30-31
Physical Education Courses . . . . .	32-33
Science Courses . . . . .	34-37
Social Studies Courses . . . . .	38-41
Spanish Immersion Courses . . . . .	42-43
Yearbook . . . . .	44
Kent Career Technical Center . . . . .	45-49
N.C.A.A. Requirements . . . . .	50-53

# What We Believe / What We Practice

**Mission** Loving, Learning, Serving

## **Vision**

- Loving: All Squires will strive to love God with all their heart, mind, and body and will love others as Christ loves them. GCCS strives to be a compassionate Christian community that provides care to the hurting, both in our community and around the world.
- Learning: All Squires will be passionate and curious lifelong learners. Each student at GCCS is prepared to serve God in a global community by being proficient in the skills of critical thinking, digital media literacy, collaboration, communication, and innovation.
- Serving: All Squires are guided to discover their unique gifts given to them by God, are encouraged to develop them and are given opportunities to serve God and others in our community and around the world, now and always.

## **An Emphasis on Spiritual Growth**

At Calvin we count it a weighty privilege to help your child grow intellectually but also spiritually. Throughout their time here we aim to teach a foundational Biblical worldview and a growing sense of discernment. Ultimately, we desire for our students to live out expressions of gratitude as they seek to live a life of service and a love for Christ. To this end Calvin offers

- Weekly Chapels and a Chaplain on staff
- Student Life Committee that helps the Chaplain prepare chapels and other student life events
- Opportunities for service both locally and beyond
- Cross-grade Student Life Groups who study scripture and pray together
- Bible studies
- Pastoral care for students, staff
- Prayer chapel and prayer teams

## **Academic Excellence**

At Calvin Christian we are committed to the belief that all students can succeed and that God asks nothing less than the best we have to offer. We also believe that differentiating instruction is the Christ like call for Christian educators to respond to the varied and differing needs in the diverse world God has made. Also at GCCS:

- Emphasis on collaboration, critical-thinking and project-based learning
- Calvin Christian class of 2015 had an average ACT score of over 23.3
- Calvin's 2015 class saw a graduation rate of 100%
- Of our recent graduates 75% attended a 4 year college and 19% attended a 2 year technical school or community college
- Calvin offers both AP, Honors, and STEM courses
- Teachers participate in a student support team that monitors all students' progress and responds to all needs of students
- Dual enrollment both on and off campus
- Strong integration of technology and digital literacy, including 1:1 Chromebook Program
- Modified block schedule to allow for on and off campus projects and time for teacher teams to work in Professional Learning Communities

### **Rich Arts Program**

Calvin recognizes the need to cultivate our creativity as image-bearers of our Creator God and celebrate the voices, gifts, talents and potential we have been given. To this end Calvin offers a number of opportunities in the arts:

Orchestra	Choir	Theater	Visual and Applied Arts
Band	Solo and Ensemble	Forensics	

### **Strong Athletic Program**

Calvin believes that athletics can be a powerful avenue for growing Christ-like leadership, Christian character and community. Beyond physical conditioning, athletics affords the opportunity to honor God with our gifts, to grow as brothers and sisters in Christ and celebrate in the life he has given us. There is opportunity for all students to be on an athletic team at Calvin.

Cross Country	Golf	Bowling	Baseball
Football	Swim/Dive	Wrestling	Softball
Soccer	Volleyball	Ice Hockey	Track
Tennis	Basketball		

### **Extracurricular Opportunities**

Calvin offers a variety of extracurricular opportunities as another avenue for growth, development and exploration. At GCCS we believe that building Christian communities means recognizing, developing and celebrating the varied gifts God has given us:

International Trips	Forensics Team	International Club	Yearbook
Caving Club	Pep Band	Newspaper	

### **Accreditation and Curriculum**

CCHS is fully accredited by the Michigan Non-Public Schools Accrediting Association and by North Central Association. CCHS offers students a liberal arts curriculum using researched-based, 21<sup>st</sup> Century practices taught from a Christian perspective. Students have the opportunity to take a variety of electives at CCHS, at the Kent Career/Technical Center or through online courses. Students who wish to advance their education may participate in AP classes and dual enrollment.

### **Grading Scale**

All courses at CCHS use the grading school listed below.

A	100 – 95	B –	82 – 80	D +	69 – 67
A –	94 – 90	C +	79 – 77	D	66 – 63
B +	89 – 87	C	76 – 73	D –	62 – 60
B	86 – 83	C –	72 – 70	F	59 – 0

### **School Counseling**

The school's counselors help students discover the gifts that God has given them and guide them to develop an education plan that furthers those gifts. Personal and group counseling opportunities are available for all students. Counselors also assist seniors with college selection, applications and scholarships along with overseeing the school testing program.

### **Academic Support**

We believe all students have been given gifts and talents by God and deserve the opportunity to explore and develop the gifts and talents God has given them in an academic setting. We provide qualified staff to support students who need an inclusive education program or who need accommodations or modifications to be successful at CCHS.

# SCHEDULING INFORMATION

## **COURSE SELECTION**

The scheduling process is filled with many options and alternatives for each student. Individual students often follow a very personalized scheduling plan that may not match the overall curriculum plan presented here. Therefore, all students are encouraged to talk with counselors about their course selections and graduation requirements before making their scheduling decisions.

***It is the student's responsibility to verify the scheduling choices he or she chooses ensure that:***

1. Selected courses will satisfy the graduation requirements given below.
2. Selected courses fit the program they plan to study after high school.
3. If the student plans to participate in collegiate athletics at a Division I or Division II school, the student has the responsibility to register with the NCAA and the responsibility to ensure that classes taken at Calvin Christian are courses that meet NCAA requirements (pp. 50-53).

## **GRADUATION REQUIREMENTS**

Students are expected to earn a minimum of twenty-two (22) credits for graduation.

All State of Michigan curriculum requirements are incorporated into the Calvin Christian High School requirements.

<u>Required Credits</u>		<u>Special Notes</u>
English	4.0	
Mathematics	4.0	8 <sup>th</sup> Grade Algebra may count toward the required 4 credits
Social Studies	3.0	
Science	3.0	
Bible	2.0	
Foreign Language	2.0	
Physical Education	1.0	
Fine or Applied Arts	1.0	This includes Art, Music, Applied Technology or Culinary Arts
Technology	0.5	One course with computer-based instruction
Elective Credits	1.5	

\* A complete list of required and elective courses is found on pages 5 and 6

In addition to the academic requirements, all students are to perform service projects during each year of high school. See the "Service Requirements" section of the Student Handbook for complete information about completing service projects.

## **SCHEDULING GUIDELINES**

1. In order to earn the 22 credits necessary for graduation, students must take an average of 5.5 credits (11 semester courses) each year. Students are required to take at least five courses (2.5 credits) and encouraged to take at least six courses (3 credits) each semester.
2. Occasionally class size must be limited for elective classes. When such a situation arises, admission is based on a grade level priority (seniors are given top priority, then juniors, sophomores, and freshmen).
3. Schedule changes are strongly discouraged after a semester has begun.
  - a. Adding a new class to a schedule may only be done during the first week of the semester.
  - b. Dropping a class and replacing it with a study hall may be done anytime within the first three weeks of the semester.
  - c. **Courses dropped after the third week of classes are recorded as failures.**

## OVERVIEW OF COURSES & REQUIREMENTS

<p><b>APPLIED ARTS / TECHNOLOGY</b> All classes except Computer Applications may be used to meet the 1.0 credit requirement for Fine or Applied Arts. Computer Applications, CAD and 3D Design courses, and Engineering Design courses may be used to meet the 0.5 credit requirement for Technology. In some circumstances most of these courses may be used to satisfy an elective math or science credit.</p>	<p style="text-align: center;"><b><u>Courses and Amount of Credit</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Computer Applications</td><td style="text-align: right;">0.5</td></tr> <tr><td>CAD and 3D Design</td><td style="text-align: right;">0.5</td></tr> <tr><td>Advanced CAD and 3D Design</td><td style="text-align: right;">0.5</td></tr> <tr><td>General Woodworking</td><td style="text-align: right;">0.5</td></tr> <tr><td>Advanced Woodworking</td><td style="text-align: right;">0.5</td></tr> <tr><td>Engineering Design 1</td><td style="text-align: right;">0.5</td></tr> <tr><td>Engineering Design 2</td><td style="text-align: right;">0.5</td></tr> <tr><td>Digital Filmmaking</td><td style="text-align: right;">0.5</td></tr> </table>	Computer Applications	0.5	CAD and 3D Design	0.5	Advanced CAD and 3D Design	0.5	General Woodworking	0.5	Advanced Woodworking	0.5	Engineering Design 1	0.5	Engineering Design 2	0.5	Digital Filmmaking	0.5
Computer Applications	0.5																
CAD and 3D Design	0.5																
Advanced CAD and 3D Design	0.5																
General Woodworking	0.5																
Advanced Woodworking	0.5																
Engineering Design 1	0.5																
Engineering Design 2	0.5																
Digital Filmmaking	0.5																
<p><b>ART DEPARTMENT</b> All classes in the Art Department may be used to meet the 1.0 credit requirement for Fine or Applied Arts. Students are expected to take Art Composition as a prerequisite for all other art classes.</p>	<p style="text-align: center;"><b><u>Courses and Amount of Credit</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Art Composition</td><td style="text-align: right;">0.5</td></tr> <tr><td>Drawing and Painting 1</td><td style="text-align: right;">0.5</td></tr> <tr><td>Drawing and Painting 2</td><td style="text-align: right;">0.5</td></tr> <tr><td>Ceramics 1</td><td style="text-align: right;">0.5</td></tr> <tr><td>Ceramics 2</td><td style="text-align: right;">0.5</td></tr> <tr><td>Sculpture</td><td style="text-align: right;">0.5</td></tr> <tr><td>Graphic Design 1</td><td style="text-align: right;">0.5</td></tr> <tr><td>Graphing Design 2</td><td style="text-align: right;">0.5</td></tr> </table>	Art Composition	0.5	Drawing and Painting 1	0.5	Drawing and Painting 2	0.5	Ceramics 1	0.5	Ceramics 2	0.5	Sculpture	0.5	Graphic Design 1	0.5	Graphing Design 2	0.5
Art Composition	0.5																
Drawing and Painting 1	0.5																
Drawing and Painting 2	0.5																
Ceramics 1	0.5																
Ceramics 2	0.5																
Sculpture	0.5																
Graphic Design 1	0.5																
Graphing Design 2	0.5																
<p><b>BIBLE DEPARTMENT</b> All courses in the Bible Department are required courses. Typically one course is taken during each year of high school.</p>	<p style="text-align: center;"><b><u>Courses and Amount of Credit</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Old Testament Survey</td><td style="text-align: right;">0.5</td></tr> <tr><td>New Testament Survey</td><td style="text-align: right;">0.5</td></tr> <tr><td>Church History</td><td style="text-align: right;">0.5</td></tr> <tr><td>Reformed Doctrine</td><td style="text-align: right;">0.5</td></tr> </table>	Old Testament Survey	0.5	New Testament Survey	0.5	Church History	0.5	Reformed Doctrine	0.5								
Old Testament Survey	0.5																
New Testament Survey	0.5																
Church History	0.5																
Reformed Doctrine	0.5																
<p><b>EDUCATIONAL SUPPORT SERVICES</b> Educational Support Services (ESS) offer courses designed to assist students. Students must have the approval of the department to schedule these courses.</p>	<p style="text-align: center;"><b><u>Courses and Amount of Credit</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Personal Study</td><td style="text-align: right;">NC</td></tr> <tr><td>Inclusive Education</td><td style="text-align: right;">NC</td></tr> <tr><td>Sidekicks</td><td style="text-align: right;">.25</td></tr> </table>	Personal Study	NC	Inclusive Education	NC	Sidekicks	.25										
Personal Study	NC																
Inclusive Education	NC																
Sidekicks	.25																
<p><b>ENGLISH DEPARTMENT</b> All students are required to complete 4.0 credits from the English Department. For grades 9 - 11, 3.0 credits must earned by taking the required courses listed to the right. In grade 12, seniors have the choice of taking College English or English 12 to earn their final English credit.</p>	<p style="text-align: center;"><b><u>Courses and Amount of Credit</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>English 9 A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>English 10 A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>English 11 A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>English 12 A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>College English Literature</td><td style="text-align: right;">0.5</td></tr> <tr><td>College English Composition</td><td style="text-align: right;">0.5</td></tr> </table>	English 9 A & B	1.0	English 10 A & B	1.0	English 11 A & B	1.0	English 12 A & B	1.0	College English Literature	0.5	College English Composition	0.5				
English 9 A & B	1.0																
English 10 A & B	1.0																
English 11 A & B	1.0																
English 12 A & B	1.0																
College English Literature	0.5																
College English Composition	0.5																
<p><b>FAMILY &amp; CONSUMER SCIENCE DEPT.</b> Culinary Arts may be used for 0.5 of the 1.0 Applied Arts requirement.</p>	<p style="text-align: center;"><b><u>Courses and Amount of Credit</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Culinary Arts</td><td style="text-align: right;">0.5</td></tr> </table>	Culinary Arts	0.5														
Culinary Arts	0.5																
<p><b>INTERDISCIPLINARY</b> Media Discernment is an elective course that is only available to students aged 17 or older.</p>	<p style="text-align: center;"><b><u>Courses and Amount of Credit</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Media Discernment</td><td style="text-align: right;">0.5</td></tr> </table>	Media Discernment	0.5														
Media Discernment	0.5																
<p><b>LANGUAGE DEPARTMENT</b> There is a 2.0 credit (2-year) foreign language requirement in order to graduate. All classes must be completed in the same language. Students involved in the Spanish Immersion programs should see "Spanish Immersion" for scheduling classes.</p>	<p style="text-align: center;"><b><u>Courses and Amount of Credit</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Spanish 1 A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Spanish 2 A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Spanish 3 A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Spanish 4 A &amp; B</td><td style="text-align: right;">1.0</td></tr> </table>	Spanish 1 A & B	1.0	Spanish 2 A & B	1.0	Spanish 3 A & B	1.0	Spanish 4 A & B	1.0								
Spanish 1 A & B	1.0																
Spanish 2 A & B	1.0																
Spanish 3 A & B	1.0																
Spanish 4 A & B	1.0																
<p><b>MUSIC DEPARTMENT</b> All classes in the Music Department may be used to meet the 1.0 credit requirement for Applied Arts.</p>	<p style="text-align: center;"><b><u>Courses and Amount of Credit</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Varsity Choir A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Concert Band A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Concert Choir A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Symphonic Band A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Orchestra A &amp; B</td><td style="text-align: right;">1.0</td></tr> </table>	Varsity Choir A & B	1.0	Concert Band A & B	1.0	Concert Choir A & B	1.0	Symphonic Band A & B	1.0	Orchestra A & B	1.0						
Varsity Choir A & B	1.0																
Concert Band A & B	1.0																
Concert Choir A & B	1.0																
Symphonic Band A & B	1.0																
Orchestra A & B	1.0																

## OVERVIEW OF COURSES & REQUIREMENTS

<p><b>MATHEMATICS DEPARTMENT</b> All students are required to complete 4.0 credits in mathematics. However, students who have taken Algebra 1 in 8<sup>th</sup> grade have already earned 1.0 credit. In addition, in order to satisfy state requirements all students must successfully complete Algebra 1, Geometry, and Algebra 2 and take at least one semester of mathematics during the senior year.</p>	<p><b><u>Courses and Amount of Credit</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Algebra 1 A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Advanced Geometry A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Geometry A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Geometry Concepts A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Accelerated Algebra 2 A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Algebra 2 A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Algebra 2 Concepts I A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Algebra 2 Concepts II</td><td style="text-align: right;">0.5</td></tr> <tr><td>Statistics A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Pre-Calculus A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>A.P. Calculus A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Personal Finance</td><td style="text-align: right;">0.5</td></tr> <tr><td>A.P. Physics A &amp; B (can be a math or science credit)</td><td style="text-align: right;">1.0</td></tr> </table>	Algebra 1 A & B	1.0	Advanced Geometry A & B	1.0	Geometry A & B	1.0	Geometry Concepts A & B	1.0	Accelerated Algebra 2 A & B	1.0	Algebra 2 A & B	1.0	Algebra 2 Concepts I A & B	1.0	Algebra 2 Concepts II	0.5	Statistics A & B	1.0	Pre-Calculus A & B	1.0	A.P. Calculus A & B	1.0	Personal Finance	0.5	A.P. Physics A & B (can be a math or science credit)	1.0
Algebra 1 A & B	1.0																										
Advanced Geometry A & B	1.0																										
Geometry A & B	1.0																										
Geometry Concepts A & B	1.0																										
Accelerated Algebra 2 A & B	1.0																										
Algebra 2 A & B	1.0																										
Algebra 2 Concepts I A & B	1.0																										
Algebra 2 Concepts II	0.5																										
Statistics A & B	1.0																										
Pre-Calculus A & B	1.0																										
A.P. Calculus A & B	1.0																										
Personal Finance	0.5																										
A.P. Physics A & B (can be a math or science credit)	1.0																										
<p><b>PHYSICAL EDUCATION DEPARTMENT</b> Every student must take 1.0 credit of physical education. Foundations of Wellness (PE1) is a required course and students then select an additional course to meet the other 0.5 credits of the requirement. Sport Ethics is an elective that does NOT count toward the required credit.</p>	<p><b><u>Courses and Amount of Credit</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Foundations of Wellness (PE1)</td><td style="text-align: right;">0.5</td></tr> <tr><td>Racquet and Net Sports (PE2)</td><td style="text-align: right;">0.5</td></tr> <tr><td>Team Sports (PE3)</td><td style="text-align: right;">0.5</td></tr> <tr><td>Strength and Conditioning (PE4)</td><td style="text-align: right;">0.5</td></tr> <tr><td>Lifetime Activities (PE5)</td><td style="text-align: right;">0.5</td></tr> <tr><td>Sport Ethics</td><td style="text-align: right;">0.5</td></tr> </table>	Foundations of Wellness (PE1)	0.5	Racquet and Net Sports (PE2)	0.5	Team Sports (PE3)	0.5	Strength and Conditioning (PE4)	0.5	Lifetime Activities (PE5)	0.5	Sport Ethics	0.5														
Foundations of Wellness (PE1)	0.5																										
Racquet and Net Sports (PE2)	0.5																										
Team Sports (PE3)	0.5																										
Strength and Conditioning (PE4)	0.5																										
Lifetime Activities (PE5)	0.5																										
Sport Ethics	0.5																										
<p><b>SCIENCE DEPARTMENT</b> 3.0 credits of science that include a Biology course and a Chemistry or Physics course must be earned at the high school level in order to graduate.</p>	<p><b><u>Courses and Amount of Credit</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Physical Science A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Advanced Biology A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Biology A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Advanced Chemistry A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Chemistry A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>A.P. Physics A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Physiology</td><td style="text-align: right;">0.5</td></tr> <tr><td>Environmental Science</td><td style="text-align: right;">0.5</td></tr> </table>	Physical Science A & B	1.0	Advanced Biology A & B	1.0	Biology A & B	1.0	Advanced Chemistry A & B	1.0	Chemistry A & B	1.0	A.P. Physics A & B	1.0	Physiology	0.5	Environmental Science	0.5										
Physical Science A & B	1.0																										
Advanced Biology A & B	1.0																										
Biology A & B	1.0																										
Advanced Chemistry A & B	1.0																										
Chemistry A & B	1.0																										
A.P. Physics A & B	1.0																										
Physiology	0.5																										
Environmental Science	0.5																										
<p><b>SOCIAL STUDIES DEPARTMENT</b> All students must complete World History, United States History A and B, Global Studies, Economics and either Government or A.P. Government to meet the 3.0 credit requirement in Social Studies. Additional classes are provided as electives.</p>	<p><b><u>Courses and Amount of Credit</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>World History</td><td style="text-align: right;">0.5</td></tr> <tr><td>United States History A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Global Studies</td><td style="text-align: right;">0.5</td></tr> <tr><td>Economics</td><td style="text-align: right;">0.5</td></tr> <tr><td>Government</td><td style="text-align: right;">0.5</td></tr> <tr><td>A.P. Government</td><td style="text-align: right;">0.5</td></tr> <tr><td>Psychology</td><td style="text-align: right;">0.5</td></tr> <tr><td>Applied Psychology</td><td style="text-align: right;">0.5</td></tr> <tr><td>Sociology</td><td style="text-align: right;">0.5</td></tr> </table>	World History	0.5	United States History A & B	1.0	Global Studies	0.5	Economics	0.5	Government	0.5	A.P. Government	0.5	Psychology	0.5	Applied Psychology	0.5	Sociology	0.5								
World History	0.5																										
United States History A & B	1.0																										
Global Studies	0.5																										
Economics	0.5																										
Government	0.5																										
A.P. Government	0.5																										
Psychology	0.5																										
Applied Psychology	0.5																										
Sociology	0.5																										
<p><b>SPANISH IMMERSION</b> Students who have completed a K-8 Spanish Immersion program continue their studies with the following courses.</p>	<p><b><u>Courses and Amount of Credit</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Spanish 9 A &amp; B</td><td style="text-align: right;">1.0</td></tr> <tr><td>Spanish Immersion Old Testament</td><td style="text-align: right;">0.5</td></tr> <tr><td>Spanish Immersion World History</td><td style="text-align: right;">0.5</td></tr> <tr><td>Spanish Immersion US History</td><td style="text-align: right;">1.0</td></tr> <tr><td>A.P. Spanish Language and Culture</td><td style="text-align: right;">1.0</td></tr> </table>	Spanish 9 A & B	1.0	Spanish Immersion Old Testament	0.5	Spanish Immersion World History	0.5	Spanish Immersion US History	1.0	A.P. Spanish Language and Culture	1.0																
Spanish 9 A & B	1.0																										
Spanish Immersion Old Testament	0.5																										
Spanish Immersion World History	0.5																										
Spanish Immersion US History	1.0																										
A.P. Spanish Language and Culture	1.0																										
<p><b>VOCATIONAL EDUCATION DEPARTMENT</b> Students interested in these programs will enroll in courses provided by the Kent Career Technical Center (KCTC)</p>	<p><b><u>Courses and Amount of Credit</u></b> All courses are electives for juniors and seniors. Certain programs will have some credits that meet graduation requirements. See listing of courses on pp. 45-49.</p>																										

# Summary of Policies for Alternate Educational Opportunities

## **Introduction**

While many educational opportunities are offered at CCHS, we understand that some students desire an even greater diversity in learning experiences or need modifications to the curriculum we offer in order to be successful in the development their gifts and talents. Due to this need, the staff at CCHS does what it can to open up even more opportunities through additional educational experiences.

These additional experiences provide many benefits for our students, but they also may have implications regarding college requirements and expectations. All students must work with the counselors and consider their goals for the future carefully before selecting one of these options (or any courses at CCHS for that matter).

A brief summary of several additional opportunities is given below. If pursuing any of these experiences appeals to a student they are asked to meet with a school counselor to receive more detailed information and to formally begin the process of applying for or utilizing a given opportunity.

## **Ambassador High**

Ambassador High is an experience-based high school, preparing students for college or career paths through local internships and integrated curriculums. We offer a complete education of core subjects, as well as internships related to student interests, gifts, and goals.

At Ambassador, students spend three days a week in interdisciplinary, project-based classrooms with highly trained teachers. Then, students spend two days per week at their internship sites with our community, working on projects that help our students identify the intersections between what they love and job opportunities in different fields. We aim to provide authentic hands-on experiences to our students, while offering benefits to our community.

## **Testing Out of Courses for CR/NC**

Students who feel that they have mastered content covered in a certain course (i.e. Algebra 1 or Spanish 1 or other courses) without previously taking the course may ask to take a formal assessment to demonstrate competency in that course instead of taking the course. Typically we will provide a window for test out opportunities in May of each school year. These credits allow students to pursue other opportunities, but do not count toward the 22 credits needed for graduation.

1. The student must contact the counselor to set up a time for taking the test during the test-out window.
2. The student may only have one attempt per course at demonstrating competency.
3. The student must score 80% or higher in order to receive credit for the course.
4. The student will receive CR or NC. A letter grade will not be given.

## **Options for Satisfying the World Language Requirement**

The state of Michigan requires that all students complete the equivalent of 2.0 credits in the same world language. Options for meeting this requirement include:

1. Completing two full-years of a world language while attending CCHS - Spanish as a World Language in the classroom, Spanish Immersion in the classroom, or a different language by means of online courses.
2. Passing competency tests for both years of a world language.
3. A combination of competency testing and course work at CCHS.
4. Completing one credit of a world language and one credit in a career and technical education program.
5. Completing one credit of a world language and one credit in visual or performing arts that is in addition to the one credit already required. Available to students with an established personal curriculum.
6. Passing competency tests or providing transcripts for both years of a world language if a world language is a home or heritage language for the student or if the student has participated in the Spanish Immersion program.

### **Online Courses**

Students have the option to explore additional educational opportunities through online courses.

1. Online courses may only be taken for credit recovery, elective credits or classes not offered at CCHS.
2. A student requesting an online course is expected to take 6 courses in that semester. A maximum of 2 courses can be online.
3. Grades for online courses will be recorded on the student's transcript and factor into GPA.
4. Students may take up to 2 courses per semester. A partnership with Grandville Public allows students to take these courses at no additional cost; however, in the event a student fails the course, the family will be responsible for the cost of the course.
5. The student is expected to work independently and the parent/guardian is responsible for monitoring progress, but a school staff member will also be assigned as a mentor to assist the student when possible.
6. For a list of courses available through Michigan Virtual visit: <https://michiganvirtual.org/students/courses/>

### **Dual Enrollment Courses**

Students wishing to extend their educational experience by taking dual enrollment courses are encouraged to do so. This involves the student signing up for and attending college courses outside of the CCHS school day or during the school day if it is possible to schedule alongside their high school courses.

1. The student must maintain a full-time schedule at CCHS (minimum of 5 courses) and meet academic achievement standards.
2. State funding is available in most cases, but in the event of additional fees it is the responsibility of the family to pay those fees.
3. The student is required for all registration requirements at the selected college.
4. Dual enrollment courses may be taken for a grade, as CR/NC, or just for college credit. A student wishing to use the course for a high school is responsible for providing an official college transcript for the verification of the grade.
5. Students must abide by college registration deadlines.

### **Career and Technical Programs**

A wide variety of career and technical programs are offered to CCHS junior and senior students through KCTC (Kent County Technology Center). These programs are listed toward the end of the curriculum guide. In order to enroll in these programs students must register through a school counselor early in the spring. Students typically attend the first session at KCTC which then replaces first and second period classes at CCHS. Other options are available.

### **Personal Curriculum**

Any student who needs curriculum modifications because of a diagnosed disability needs to speak with the counselors and the ESS specialist to determine if a personal curriculum is a valid option.

### **Work Release**

We realize that a part-time job experience can be very worthwhile and also necessary from a financial point of view. However, one of our first considerations must also be the effect of additional work on the student's academic progress. Parents, students, and employers must realize that the work release may later be revoked if in the opinion of the principal the work release is harmful to academic performance. Only seniors will be considered for work release.

### **Independent Study**

Students who encounter significant difficulties while trying to schedule an elective course that is sequential to a course already completed at Calvin Christian may make a request to take the course as an independent study. Requests are only approved if there is a demonstrated need for the course, there is availability by the supervising teacher, and the student has demonstrated significant success in the previous course.

### **E.S.S. Sidekicks**

After approval from the Educational Support Services staff, students spend one period of the school day volunteering in with the Inclusive Education program. They may be placed in the inclusion classroom, or into a general education classroom.

# **APPLIED TECHNOLOGY DEPARTMENT**

## **APAR 134 COMPUTER APPLICATIONS**

1 semester  
Credit: .5  
Grades 9-12

In an ever-changing world inundated with more powerful software, creative electronic devices, and countless new apps, proficiency in the use of computer technology has never been more important for high school students, college students, and young adults entering the workforce. The computer applications course is designed to provide foundational skills in the area of keyboarding, computer literacy, MS Office Applications, Google office suite applications, and elementary computer coding. Additional topics that will be covered include social media safety, file management, and computer ethics.

## **APAR 234 GENERAL WOODWORKING**

1 semester  
Credit: .5  
Grades 10-12 (Grade 9 with school approval)  
Course Fee – \$30

In General Woodworking we use the gifts that God has given us to build beautiful and functional woodworking pieces. We will explore the safe use of power tools, different types of wood and different ways to join them. We will praise God as we develop our craftsmanship and creativity. We will learn about problem solving, collaboration, and serve one another as we practice and develop our woodworking skills. This 1 semester course will satisfy a .5 fine arts credit.

## **APAR 244 ADVANCED WOODWORKING**

1 semester  
Credit: .5  
Grades 10-12  
Prerequisite: General Woodworking  
Course Fee – \$30

In Advanced Woodworking we will practice more complex techniques as we further our craftsmanship skills. Students will not just build, but will also design their woodworking pieces as original works of art to praise God. Then we will evaluate and celebrate the student designs.

**APAR 253 CAD AND 3D DESIGN** (formerly called GRAPHIC COMMUNICATIONS 1)

1 semester  
Credit: .5  
Grades 9-12

What makes a great design? Why did God make us with an innate need to create? In CAD & 3D Design we will explore technical drawing and CAD design. We will begin by learning how to communicate through manual drawing and computer aided design. Then the focus will move to designing and evaluating original objects that can be used in everyday life to serve others. Many of these objects are produced using our 3D printers or our laser cutter. Finally, the class will practice collaboration as we design and build a machine together. This 1 semester course will satisfy a .5 credit towards fine arts or a .5 technology credit.

**APAR 254 ADVANCED CAD AND 3D DESIGN** (formerly called GRAPHIC COMMUNICATIONS 2)

1 semester  
Credit: .5  
Grades 10-12 (Grade 9 with school approval)  
Prerequisites: CAD and 3D Design (Graphic Communications 1)

In Advanced CAD & 3D Design we continue to build on the CAD, collaboration, problem solving, and design cycle that were introduced in CAD & 3D Design. We will further develop these skills as we design and build a project together. Additionally, we will be designing and evaluating a custom house using. This 1 semester course will satisfy a .5 credit towards fine arts or a .5 technology credit.

**APAR 374 ENGINEERING DESIGN 1**

1 semester  
Credit: .5  
Grades 10-12

This course is designed for students who are considering a career in Engineering or a related field or are interested in strengthening their problem solving and collaboration skills. Students will utilize CAD software, 3D printing, basic electronics and fundamental programming. One principal student design project will be completed each semester. During this project, students will collaborate with one another to problem solve and professional engineers will serve as mentors to the class. This class will satisfy 0.5 Technology credits, 0.5 Science credit, or 0.5 credits for the senior math requirement.

**APAR 384 ENGINEERING DESIGN 2**

1 semester  
Credit: .5  
Grades 10-12

The focus of Introduction to Engineering 2 is to explore how we can develop our engineering skills to love God and serve our neighbor. We will continue to reinforce our collaboration, communication, problem solving, and critical thinking skills as we practice the engineering design process. Learning activities include building an electric cart to race in the annual National Electric Cart Association race at the Berlin Raceway. This class will satisfy 0.5 Technology credits, or 0.5 Science credits, or 0.5 credits for the senior math requirement.

**APAR 394 DIGITAL FILMMAKING**

1 semester  
Credit: .5  
Grades 10-12

Digital filmmaking is an engaging, hands-on process centered on project-based work that encourages creativity. It fosters a wide range of skills that include writing, problem-solving, pre-planning, drawing, editing, and building and these skills are practiced multiple times. Lighting, shooting, editing, directing, writing, computer graphics, special effects, sound engineering, & digital photography, are just a few of the many areas in which a student interested in media production can become involved. This course will expose students to a sampling of all of these areas as they consider career options and college study in filmmaking. Through this process, a student will not only gain a valuable and marketable skill, but will have strengthened their thinking skills by learning to think abstractly and conceptually. They will also have created digital media products that can be useful for scholarship purposes, school-related purposes, and media that benefits their church and community.

## **ART DEPARTMENT**

### **ART 134 ART COMPOSITION**

1 semester  
Credit: .5  
Grades 9-12

Art Composition offers students a comprehensive art experience with detailed explorations in the classics such as painting, drawing, printmaking, ceramics, sculpture and graphic design. In addition to gaining confidence and proficiency working with a variety of mediums, students will learn about the history, analysis, and interpretation of art. Students will learn how to develop art-making skills, communicate through their artwork, take risks, solve creative problems, develop a global awareness in art, and collaborate with peers in artistic endeavors. Students will explore how they fit into God's story using the unique creative gifts God has given them. The course focuses on building creativity as a foundation and is a prerequisite for all other art courses.

### **ART 144 DRAWING AND PAINTING 1**

1 semester  
Credit: .5  
Grades 9-12  
Prerequisite: Art Composition

Art is a wonderful way to reflect God's artistry in creation and to decipher God's grace in our lives. In this introductory course we will explore the fundamentals of drawing and painting which include but is not limited to the Grid drawing, observational drawing, memory drawing, contour drawing, Watercolor paints, Acrylic Paints, Tempera paints, Oil paints, Landscape, Portrait, Still Life, and Perspective compositions. Students will utilize the elements and principles of design within their work and are expected to produce original artwork. We will develop our craftsmanship, creativity and imagination while creating more expressive and creative artwork.

### **ART 244 DRAWING AND PAINTING 2**

1 semester  
Credit: .5  
Grades 10-12  
Prerequisite: Art Composition and Drawing and Painting 1

In this class students will gain an understanding of Art History and how it influences and informs the development of the artwork they make, as well as artwork around the world. Students will build upon the basic drawing and painting skills they learned in Drawing and Painting 1, and start to focus on the development of strong compositions, as well as their own artistic style and voice. Students will work in a variety of drawing and painting mediums, and will be exploring more complex artistic styles, techniques, and concepts. This class involves a high level of critical thinking and creative problem solving. This course has a **prerequisite** of Drawing and Painting 1.

**ART 154 CERAMICS 1**

1 semester

Credit: .5

Grades 9-12

Prerequisite: Art Composition

Working with clay is an expressive art form that can help us understand our creator and how we were made in his image. In this introductory ceramics course, students will be exposed to basic hand building procedures. A variety of both utilitarian and non-utilitarian projects will be constructed. Students will also engage in fundamental glazing and firing techniques and methods such as raku may be explored. All projects will include exposure to various clay tools, techniques and vocabulary.

**ART 254 CERAMICS 2**

1 semester

Credit: .5

Grades 10-12

Prerequisite: Ceramics 1

We will build upon the concepts and skills learned in the Ceramics 1(prerequisite) and develop more advanced skills in hand building as well as explore slip-casting, plaster sculpting, and wheel-thrown techniques. A stronger emphasis is placed on skills and concepts that a student could use as a professional artist- either as a production potter making cups, and bowls, and plates, etc.; or a creative artist that may have their own gallery or work for art studios (such as character design for game and movie companies). Students are also expected to have a strong work ethic and to pursue higher quality of work and craftsmanship on their projects. Ceramics 1 is a prerequisite that must be completed before taking this course.

**ART 164 SCULPTURE**

1 semester

Credit: .5

Grades 9-12

Prerequisite: Art Composition

What do marble, trash, chocolate and clay have in common? They are all materials artists throughout history and today have used to create meaningful, provocative sculpture! This course explores how sculpture can transform the perception and experience of a particular place and space, shape lives and communities, and help students enrich their own personal growth and faith. Students will experiment with both traditional and non-traditional media in creating artworks and environments. Students will engage with art throughout history as well as ideas and artworks of contemporary sculptors.

**ART 264      GRAPHIC DESIGN 1**

1 semester

Credit: .5

Grades 9-12

Prerequisite: Art Composition

Graphic Design drives a connection between content and creativity encouraging students to build stronger visual communication skills. Throughout the course, students will be expected to create, present, respond and connect to visually coded information through a variety of 2D media including typography, page layout, illustration and photography. Projects will focus on developing students' visual understanding and encourage critical discernment of current graphic design images. In turn, students will learn to craft meaningful and purposeful messages commenting on popular culture and pointing to hope, grace and love. Students will use the gifts they receive in this course and serve others by creating graphics to help local businesses and enhance student life and school culture. This is a great way to get firsthand experience at what it would be like to be a graphic designer.

**ART 274      GRAPHIC DESIGN 2**

1 semester

Credit: .5

Grades 10-12

Prerequisite: Graphic Design

Graphic Design 2 continues to drive a connection between content and creativity encouraging students to build stronger visual communication skills. As in Graphic Design, students will be expected to create, present, respond and connect to visually coded information through a variety of 2D media including typography, page layout, illustration and photography. Projects will continue to focus on developing students' visual understanding and encourage critical discernment of current graphic design images. In turn, students will learn to craft meaningful and purposeful messages commenting on popular culture and pointing to hope, grace and love. Students will again use the gifts they receive in this course and serve others by creating graphics to help local businesses and enhance student life and school culture. This is a great way to get firsthand experience at what it would be like to be a graphic designer.

## **BIBLE DEPARTMENT**

### **BIB 104 OLD TESTAMENT SURVEY**

1 semester  
Credit: .5  
Grade 9

What happens when a good creation fashioned by a loving, all-powerful God descends into chaos and death? How and why does God get involved in the messiness and violence of human history? And what does Yahweh do when his rescue lifeboat, the chosen Israelites, fails in their mission and drowns in the process? This course will survey the powerful, graphic, strange, often terrifying, and yet ultimately hopeful story of the Old Testament - a story of exile and homecoming. Throughout our study, we will situate these inspired books in their historical context, appreciate their literary distinctiveness, and peer ahead toward their unexpected fulfillment in Jesus Christ. Overall, students will be challenged to appropriate for themselves the countercultural identity of covenant living with our faithful Lord.

### **BIB 204 NEW TESTAMENT SURVEY**

1 semester  
Credit: .5  
Grade 10

Imagine you are a Jew living in first century Israel. Your ancestors returned home from Babylonian exile 400 years ago and renewed their covenant with God...but no glory of the Lord ever returned to fill the rebuilt Temple, no king from David's line ever emerged to sit on the throne in Jerusalem as promised, and a long line of foreign empires leading up to Rome continue to rule over your people instead. You must wonder: where is God? When will God truly forgive us, destroy our enemies, and fully end our exile from him? This course will survey the writings of the New Testament, which reveal the shocking climax of the story: a king who wins the victory through dying on a Roman cross, and whose resurrection ushers in a whole new creation. We will study these books within their first century context and also seek to apply their message of God's grace to contemporary Christian living. Students will be challenged to respond to the good news that Jesus is Lord and join the kingdom of "every nation, tribe, people, and language" following and embodying Christ.

### **BIB 304 CHURCH HISTORY**

1 semester  
Credit: .5  
Grade 11

Did you know almost every person asks the same big questions in life? Why am I here? Is there a God? Why should I believe in a God I cannot see? What happens when I die? Why are there so many different churches? Why are Christians hypocrites? What difference does it make how I live? Through debates, stories, historical documents and research, and learning from our Christian ancestors, students will be challenged to own their faith as they seek to discover the truth as God has revealed it to his people - from Acts 2 all the way through the present day. This is a required 1 semester course.

**BIB 404 REFORMED DOCTRINE**

1 semester

Credit: .5

Grade 12

In 2 Corinthians 5:17 we read, "If anyone is in Christ, there is a new creation; the old has gone, the new is here!" This class intends to help students better understand the nature of the Christian faith itself, to explore intensively its key teachings, and to respectfully present reasons for the truth of the compelling claim that God in Christ is indeed making all things new. This journey stems from the foundation of Reformed theology, even as it seeks to highlight points of unity and difference with other Christian denominational traditions and non-Christian worldviews. Examples of questions explored include: "How should we interpret the Bible?" "Are faith and science compatible?" "How should we understand the Trinity?" "Do we choose God or does God choose us?" "How can Jesus be fully God and fully human?" "What hope does the death and resurrection of Jesus provide for our work in this world?" Not only will students be encouraged to thoughtfully articulate their faith, but they will be challenged to embody gracious gospel living as the diverse yet unified Body of Christ, serving as ambassadors of "new creation" in their community and making life connections between the Big Story of Christianity and their own potential callings after high school.

## **EDUCATIONAL SUPPORT SERVICES DEPARTMENT**

Realizing that all individuals are image bearers of Christ and that they have different strengths and challenges, Calvin Christian High School offers a curriculum that accommodates the entire spectrum of learning abilities. Special learning needs are met through the Educational Support Services Department. This program meets the learning challenges of students with Learning Disabilities, Cognitive Impairments, Autism Spectrum Disorders, Behavioral /Emotional challenges and Physical disabilities.

Students may receive Educational Support Services (ESS) through a recommendation from a previous school or through the high school referral process which is initiated by a parent, teacher, or counselor. Through ESS, students will receive an accommodations plan and individualized student plan to outline the services provided. Students involved with ESS may take tests with extended time and in an alternate location. It is highly suggested that students receiving ESS support are enrolled in Personal Study.

### **ESS 131      PERSONAL STUDY A**

### **ESS 132      PERSONAL STUDY B**

1 or 2 semesters

Grades 9-12

No Credit

Prerequisite: Approval from the ESS staff based on a diagnosis

Personal Study (PS) is a service provided by the ESS program. Students are assigned to PS as an alternative to study hall and receive no credit for the class. Services provided within PS: Study skills and test-taking strategies, guided homework help with learning specialist (and paraprofessional), academic and behavioral coaching, quiet and spacious environment, organizational skills, grade monitoring, daily homework reminders and recommended use of daily planner, suggested Chromebook tools and extensions, strategies for coping with disabilities, provided accommodations within and outside of general education classes, possible ACT or SAT accommodations (Learning Specialist will apply for qualified students), and a personal curriculum (if qualified—Please see personal curriculum framework).

### **ESS151      INCLUSIVE EDUCATION A**

### **ESS152      INCLUSIVE EDUCATION B**

Grades: 9 – 12

Prerequisite: Documented disability certification

This program is for students who have moderate to severe disabilities and need moderate to high interventions and supports. The Inclusion Director will collaborate with other school personnel and families to develop personalized learning experiences for students. The program serves a wide variety of students, including those who have severe Learning Disabilities, Behavioral/Emotional challenges, Autism Spectrum Disorder, Down's Syndrome, as well as Cognitive and Physical Impairments. To be accepted into the program school staff will meet with families to identify issues that require immediate and long-range attention. Problem-solving processes are followed that may lead to planning of curriculum interventions, educational evaluations and behavior management plans. The program may include academic skills, social skills, life skills, community based skills and work based instruction skills. Individualized Student Plans are prepared for students in this program. The plans are based on a thorough understanding of a student's strengths, as well as an assessment of particular areas of weakness. Students are also provided with Transition Plans in order to help prepare for life after graduation.

**ESS161      SIDEKICKS A**  
**ESS162      SIDEKICKS B**

1 or 2 semesters

.25 credit

Grades: 9 – 12

Prerequisite: Approval by the department

Do you have the gift of friendship? Do you enjoy helping others learn? Do you have a heart for students who learn differently? Do you have an interest in working in special education? If you answered yes to any of these questions Sidekicks might be a class for you. Taking a Sidekicks class means that you will serve as a peer tutor to an inclusion student in the classroom. The benefits to a student who serves as a Sidekick are numerous. Being a Sidekick offers opportunities for the learning and application of skills that promote responsibility, collaboration, leadership, and empathy, among others. Sidekicks will become better problem solvers and communicators who are able to successfully interact with a wide variety of people. This program will also benefit the Inclusion Ed students with whom you will work with. In a classroom, classmates serve as more effective models than adults as students are more likely to mimic the behavior of their peers. A Sidekick in the classroom rather than another adult helps create a better sense of belonging for Inclusion students. Students need to fill out an application and have approval from the department prior to signing up for the course. The purpose of this class is to reach across grades, groups, special needs, and cultures, striving to see others through God's eyes. Calvin Christian students who are not able to take the Sidekicks course can help out by being a lunch partner, attending group outings, or just by being a friend.

# ENGLISH DEPARTMENT

## Overview & Requirements:

All students are required to complete 4.0 credits from the English Department. For grades 9–11, 3.0 credits must be earned by taking the required courses listed. In grade 12, seniors have the choice of taking A.P. English or English 12.

<u>Grade</u>	<u>English Requirements and Options</u>
9	All students take English 9 A and English 9 B
10	All students take English 10 A and English 10 B
11	All students take English 11 A and English 11 B
12	All students must take either English 12 A and English 12 B or take College English Literature and College English Composition.

### **ENG 101      ENGLISH 9 A**

### **ENG 102      ENGLISH 9 B**

1 year

Credit: 1

Grade 9

English 9 is a required 1-year course for all freshmen. English writer Alan Bennett said, "*The best moments in reading are when you come across something - a thought, a feeling, a way of looking at things - which you had thought special and particular to you. And now, here it is, set down by someone else, a person you have never met, someone even who is long dead. And it is as if a hand has come out, and taken yours.*" This course will offer students the opportunity, through reading and listening, to take the hands of diverse writers, speakers, and thinkers throughout history, from graphic novels, to Harper Lee, to their neighbor down the street. This course will also equip students with the skills to extend hands of their own, through speaking and writing, to the world. Students will perform scenes from Shakespeare, write their own novel, interview members of their community, and engage with a whole host of perspectives, both familiar and foreign, learning to see themselves as simultaneously precious and ancillary members of God's larger world.

### **ENG 201      ENGLISH 10 A**

### **ENG 202      ENGLISH 10 B**

1 year

Credit: 1

Grade 10

The English 10 course seeks to improve students' ability to write well, to comprehend literature, and to speak articulately and effectively. One of the main goals of English 10 is to provide students with questions to wrestle with. Furthermore, this course seeks to give students the tools to analyze cultures—both their own as well as "others"—and find their place within God's overarching story. While the primary focus of this course is to discover and discuss the importance of stories through the study of several novels and nonfiction texts, students will also work on grammar, write their own Narrative Essay, and participate in an Independent Reading Unit, in which they use multiple fiction stories of their choice to practice effective reading strategies. Other areas of study include language usage, vocabulary, and the writing of a Literary Essay.

**ENG 211      ELL ENGLISH A**  
**ENG 212      ELL ENGLISH B**  
1 year  
Credit: 1  
Grades 9-12

ELL English is an introductory class in which students study culture and prepare for their education in a foreign language and setting. This course places particular emphasis on American culture and educational practices, seeking to meet individual student needs and assist students in growing roots in their new environment. Throughout the year, students will practice and develop their English reading, writing, speaking, and listening skills, while also developing a sense of community and purpose.

**ENG 301      ENGLISH 11 A**  
**ENG 302      ENGLISH 11 B**  
1 year  
Credit: 1  
Grade 11

Literature asks questions without giving easy answers. Who are you? What is the narrative of your culture? What is the role of your culture in shaping your identity? Through the study of language and literature, students will work toward a better understanding of these essential questions. In reading poetry, short stories, novels and essays, students will develop critical thinking and persuasive skills in order to take apart a cultural narrative by reading in between the lines of the text and to use rhetorical techniques in order to talk back to the cultural narratives around them.

**ENG 401      ENGLISH 12 A**  
**ENG 402      ENGLISH 12 B**  
1 year  
Credit: 1  
Grade 12

In English 12, students will not only consume, but also appreciate the beauty, joy and power of literature. We will use a variety literary genres, as well as informational texts, as vehicles for understanding and appreciating cultural, historical and social perspectives different from of our own. The use of both reading and writing will develop students' ability to think critically, as well as understand the writing process within a specific context and respond effectively to the writing of others. Students will complete an inquiry-based research study, in which they will develop persuasive arguments that are supported by logical reasons and substantive evidence. Finally, students will learn to write ethically, understanding critical thinking, reading and writing as means to learn, work, and advocate for the kingdom of God.

## **ENG 501 COLLEGE ENGLISH COMPOSITION**

1 semester

Credit: 1

Grade 12

This dual enrollment class will be given a weighted grade based on a 5 point scale.

College English Composition is a course designed to acclimate you to the style of writing used in college, but it is also more than that. On one hand writing in college is first of all about “joining the academic conversation,” which simply means listening to it—learning the terms, the key topics, and basic arguments—before entering it with your own ideas. On the other hand, college writing calls a writer to think critically about these arguments, to question assumptions, and to find an individual writing voice. Therefore, in this class we will emphasize both doing quality research and writing in a style that is lively and engaging. We will also be called to question assumption of these “authoritative sources. To generate essays, we will emphasize the typical steps in the writing process, from brainstorming and drafting to revising and editing. We will place a special emphasis on peer review, where you will receive input from your fellow writers to improve your essays at the level of ideas and structure as well as grammar and proofreading. Finally, our study of the structure and style of the academic essay will prepare you for writing in other courses and throughout your academic career.

## **ENG 502 COLLEGE ENGLISH LITERATURE**

1 semester

Credit: 1

Grade 12

This dual enrollment class will be given a weighted grade based on a 5 point scale.

This course is designed to expose you to a variety of genres and with those genres, themes. The impetus of the course is to aid you in developing analytical skills and subsequently responding to the material that you have read.

The focus of this course is not only literature, but also the thoughtful analysis of it and a skilled, written response to or evaluation of it. The goal is for you to develop and grow to be able to think for yourself.

## **FAMILY AND CONSUMER SCIENCE DEPARTMENT**

### **FCS 231 CULINARY ARTS**

1 semester

Credit: .5

Grades 11-12 (may be limited to only Grade 12 based on number of requests)

Are you what you eat? What should you eat? Culinary Arts is a class that follows the My Plate Guidelines and explores the five basic food groups. Each week there is something to make, such as salsa, smoothies, chicken soup, homemade pizza, sweet potato fries and more. Homework is to make the same food at home. Emphasis is placed on showing hospitality to others through the use of food. Students compete with the teachers in a chili cook off, they make cookies for friends and bring a meal to different families in the community. The class may host an International Cuisine Fair attended by the whole school. The final exam is a meal prepared at home and shared with your family.

## **INTERDISCIPLINARY**

### **IDIS 432 MEDIA DISCERNMENT**

1 semester

Credit: .5

Grades 11-12 (Must be 17 years old the first day of class 2<sup>nd</sup> semester)

This course develops a framework for consuming mass media (movies, television, music, video games, and advertising) with integrity before God. How does media influence us for good or bad? How is it made? How do we critique it? How do we redeem it? How can it be an act of worship? These are just a few of the essential questions that permeate the course. We will study *Eyes Wide Open*, by William Romanowski, which examines modern media culture from the perspective of a Reformed Christian. Students will contribute significantly to the content of the class through presentations on media businesses, song selections, and movie viewings. Students will also create their own media in video form. The long range goal is to have students integrate a Christian worldview into their media consumption that will serve them for life beyond the classroom.

## **LANGUAGE DEPARTMENT**

**\*\*\* Spanish Immersion courses are listed as a separate department on pp. 42-43 \*\*\***

### **OVERVIEW:**

CCHS follows the Michigan Merit Curriculum which requires students to complete two credits (two full years or four semesters) in a World Language. All courses must be in the same language. For most students not in the Spanish Immersion program this means they must complete Spanish 1 A & B and Spanish 2 A & B while attending high school.

Students are encouraged to take Spanish 1 A & B as freshmen and Spanish 2 A & B as sophomores, eliminating a gap between Middle School and High School Spanish. Furthermore, if a student enjoys learning the language in those classes, he or she then has the option of taking Spanish all four years of high school by taking Spanish 3 A & B as a junior and Spanish 4 A & B as a senior.

### **LANG 131 SPANISH 1 A**

### **LANG 132 SPANISH 1 B**

1 year

Credit: 1

Grades 9-11

Storytelling in Spanish is the foundation of this introductory Spanish class. On day one, students begin to understand a story told completely in Spanish. Soon, students are taking part in building the drama of the stories. Students gain confidence and comprehension through reading, speaking and writing. Students will explore Spain, Mexico and Central America as destinations for rich cultural traditions such as The Running of the Bulls, the quinceañera celebration and the Castells (Human Towers) of Catalonia Spain. In both semesters, students read and discuss a complete novel written entirely in Spanish. Students are well on their way to becoming competent in another language as they end the year by telling their own story and sharing how it relates to God's story.

### **LANG 231 SPANISH 2 A**

### **LANG 232 SPANISH 2 B**

1 year

Credit: 1

Grades 10-12

Prerequisite: Spanish 1

How can I talk to people that speak Spanish? The focus of Spanish 2 is to communicate in another language and to then connect with others. Storytelling continues with emphasis placed on speaking, reading, and writing in the past tense. Students work on building their confidence through speaking to their peers, first, and then going out on 3 different Cultural Encounters to practice Spanish in the community. Central and South America are studied to bring out the similarities and to value the differences in education, food, work and celebrations. The class will read and discuss three novels written completely in Spanish. The students will be able to answer how they have connected with the Spanish culture and why this is an essential part of God's great commandment.

**LANG 331 SPANISH 3 A**

**LANG 332 SPANISH 3 B**

1 year

Credit: 1

Grades 11-12

Prerequisite: Spanish 1 and 2

The first semester is a virtual trip to Mexico, Central America and South America. A different "marvel" unfolds each week. Students advance their listening, speaking, reading and writing skills while becoming more and more fluent and proficient in Spanish. Students will explore and describe other cultures looking at differences yet finding many similarities

Move on into second semester to live in the land of Hemingway, flamenco, don Quijote, tapas and the Civil War. Meet Sira, a seamstress/secret agent and find out how she helps Spain under Franco's dictatorship. While listening to stories told in the past tense in Spanish, students respond to questions and become accustomed to hearing the correct way of speaking. Students become more competent in their abilities as they build their own stories.

**LANG 431 SPANISH 4 A**

**LANG 432 SPANISH 4 B**

1 year

Credit: 1

Grades 11-12

Prerequisite: Spanish 1-3

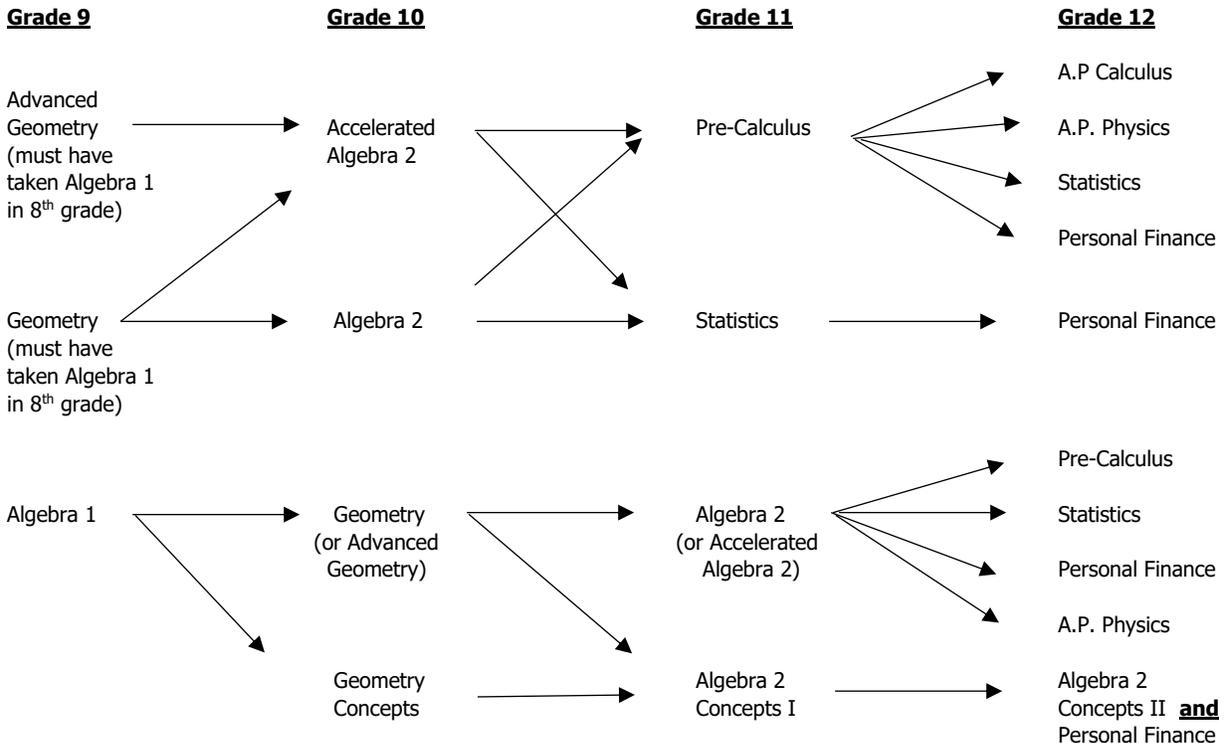
With the use of novels and films, Spanish IV will delve into the history of Ecuador and Bolivia and discover the mining communities in these countries. They will learn why young children work in the mines and discuss situations that can help or hurt the people of these countries.

Second semester focuses on the civil wars of El Salvador, Guatemala and Argentina. Family, loyalty, social justice, U.S. involvement, gangs and immigration are a few of the topics to be explored. Students will think through political asylum and refugee issues. Students will consider how to respond and incorporate a Christian perspective of justice, mercy and humility into the issues facing the Spanish speaking world.

The class is conducted in Spanish. Students will strive for intermediate to advanced fluency. Students will do Cultural Encounters in the community and with missionaries throughout Spanish speaking countries. Focus will be on caring and connecting with our neighbors.

# MATHEMATICS DEPARTMENT

- All students are required to take 4 credits of math.
- Algebra 1 taken in the 8<sup>th</sup> grade may be used to fulfill 1 credit of the math requirement.
- To satisfy state requirements, students must take Algebra 1, Geometry, and Algebra 2, and take at least one semester of math during the senior year.
- College preparatory students should go through Pre-Calculus or Statistics.
- A TI-83/TI-84 Graphing Calculator is encouraged for Algebra 1 and Geometry, and is required for Algebra 2 and beyond. This is the most advanced calculator allowed on standardized tests.
- Several (but not all) options for completing the 4 credits are shown in the flow chart below.



**MATH 101 ALGEBRA 1 A**  
**MATH 102 ALGEBRA 1 B**  
 1 year  
 Credit: 1  
 Grade 9

Typically taken by ninth graders, Algebra 1 gives students a strong foundation for the ways in which math can be used to represent the world through equations and graphs. Students will learn to reason symbolically as we explore writing and solving equations and inequalities, linear functions and systems, and introduce topics that students will master in more advanced courses. Students also develop their math skills with critical thinking, communicating, and problem solving.

**MATH 201 GEOMETRY A****MATH 202 GEOMETRY B**

1 year

Credit: 1

Grades 9-10

Requirement: Algebra 1

How can you show certain formulas and properties of common shapes really work? In this class students will take foundational understandings that we accept as true and develop that into a wide and constant base of knowledge. The study of Geometry will include examining measures in one, two, and three dimensions. Students will also develop the ability of logical thinking, drawing precise diagrams, and seeing applications of Geometry in the real world. Learning is designed to be more conceptual and less factual and memorization.

**MATH 221 ADVANCED GEOMETRY A****MATH 222 ADVANCED GEOMETRY B**

1 year

Credit: 1

Grades 9-10

Prerequisite: Algebra 1

Advanced Geometry is a full-year course for students who have completed their algebra course(s). The purpose of Advanced Geometry is to cover the same basic material as Geometry, but at a pace and depth designed to meet the needs of students who have enjoyed their experience with mathematics, intend to pursue careers and interests in math or science, and would like a more rigorous approach to geometry.

*We reserve the right to cancel the offering of this course if less than 15 students are registered.*

**MATH 211 GEOMETRY CONCEPTS A****MATH 212 GEOMETRY CONCEPTS B**

1 year

Credit: 1

Grade 10

Prerequisite: Algebra 1

Geometry Concepts is a full-year course for students who have completed their algebra course(s). The purpose of Geometry Concepts is to cover the same basic material as Geometry, but at a pace and depth designed to meet the needs of students who may need additional time or more direct instruction to successfully master the content.

*We reserve the right to cancel the offering of this course if less than 15 students are registered.*

**MATH 301 ALGEBRA 2 A****MATH 302 ALGEBRA 2 B**

1 year

Credit: 1

Grades 10-11

Prerequisite: Advanced Geometry or Geometry

Requirement: TI-83/84 graphing calculator

Algebra 2 is a course which builds upon the ideas learned in Algebra and Geometry as well as introducing more complex ideas. The emphasis is to bring algebra, geometry, and technology into a unified approach by showing the student how the ideas learned are applied to real life situations.

Course content contains two major themes. There is a study of types of functions including linear, quadratic, exponential, and logarithmic functions. There is also the study of real number properties as they are applied to powers, logarithms, radicals, and polynomials.

**MATH 321 ACCELERATED ALGEBRA 2 A****MATH 322 ACCELERATED ALGEBRA 2 B**

1 year

Credit: 1

Grades 10-11

Prerequisite: Advanced Geometry or Geometry

Requirement: TI-83/84 graphing calculator

Accelerated Algebra 2 is a course designed for students who may be interested in continuing their high school studies with Pre-Calculus and A.P. Calculus and possibly pursuing a college degree that heavily involves mathematics. Similar to Algebra 2, it is rigorous course which builds upon the ideas learned in Algebra 1 and Geometry as well as introducing many more complex ideas. The emphasis is to bring algebra, geometry, and technology into a unified approach by showing the student how the ideas learned are applied to real life situations.

In addition to the two major themes covered in Algebra 2, this course moves at a quicker pace to allow an extended introduction of statistics that these students may not experience if their future math courses only include Pre-Calculus and A.P. Calculus.

*We reserve the right to cancel the offering of this course if less than 15 students are registered.*

**MATH 311 ALGEBRA 2 CONCEPTS I A****MATH 312 ALGEBRA 2 CONCEPTS I B**

1 year

Credit: 1

Grade 11

Prerequisite: Geometry or Geometry Concepts

Requirement: TI-83/84 graphing calculator

Algebra 2 Concepts I corresponds closely to Algebra 2. However, the pacing in Algebra 2 Concepts I does not allow students to cover all of the content that is required in Algebra 2 during these two semesters. Therefore students who enroll in Algebra 2 Concepts I as a junior will be required to also enroll in Algebra 2 Concepts II as a senior to complete the content covered in Algebra 2. This will allow students who may need additional time or more direct instruction to successfully master the content to experience some of the more complex ideas in mathematics at a more appropriate pace.

*We reserve the right to cancel the offering of this course if less than 15 students are registered.*

**MATH 413 ALGEBRA 2 CONCEPTS II**

1 semester

Credit: .5

Grade 12

Prerequisite: Algebra 2 Concepts I

Requirement: TI-83/84 graphing calculator

Algebra 2 Concepts II is the continuation of Algebra 2 Concepts I. Students who enroll in Algebra 2 Concepts I as a junior are required to enroll in Algebra 2 Concepts II as a senior to complete the content covered in Algebra 2. This will allow students who may need additional time or more direct instruction to successfully master the content to experience some of the more complex ideas in mathematics at a more appropriate pace.

**MATH 431 STATISTICS A****MATH 432 STATISTICS B**

1 year

Credit: 1

Grades 11-12

Prerequisite: Algebra 2

Requirement: TI-83/84 Graphing calculator

Statistics is a one-year elective course, taken in the eleventh or twelfth grade after the completion of Algebra 2. Statistics is the study of collecting, organizing, displaying, and interpreting data. As the study of data becomes more and more prevalent in many areas of study, students who complete this course are better prepared to understand the world around them.

In first semester the primary focus is on descriptive statistics which includes several topics:

- collecting data by means of well-designed sampling methods and experiments
- using several types of tables and graphs such as histograms and boxplots to organize and display data
- summarizing data based on measures of center such as mean and median as well as measures of spread such as variance and standard deviation
- studying probability and probability distributions

Students have opportunities to display, describe, and interpret data using graphs, equations, charts, and technology. Students are challenged to see the effects of sin in our world as seen in the manipulation of data as well as how Christians need to respond by using statistics in a way that brings glory and honor to God.

Second semester moves into inferential statistics. After learning about binomial and normal distributions, students apply that knowledge to determine how to use data from samples to make inferences and conclusions about the population being studied by means of confidence intervals and tests of significance.

*As a school we are exploring options where students who take both semesters of the course may be able to pursue dual enrollment to earn college credit.*

**MATH 441 PRE-CALCULUS A****MATH 442 PRE-CALCULUS B**

1 year

Credit: 1

Grade 11-12

Prerequisite: Accelerated Algebra 2 or Algebra 2

Requirement: TI-83/84 graphing calculator

How many different ways can we describe an angle measure? How can a simple right triangle lead us to build six new functions? Pre-Calculus is a one year elective course intended for all those who enjoy mathematical analysis and who have exhibited their ability in this area. The course will provide a solid preparation for students intending to take AP Calculus or for students who plan to study further mathematics in the future. Pre-Calculus will also be helpful to those who, although not wishing to continue their formal mathematics education, want to have an acquaintance with some important topics of mathematics that they may encounter in their everyday life or in their later studies. Course content involves the study of basic trigonometry, trigonometric functions, trigonometric identities, vectors, parametric and polar functions, conic sections, function review, and limits. Science and math majors should take this course. Students intending to take AP Calculus must take Pre-Calculus.

**MATH 452 PERSONAL FINANCE**

1 semester

Credit: .5

Grades 11-12

Prerequisite: Algebra 2 or Algebra 2 Concepts I

With graduation around the corner for juniors and seniors, students get a chance to learn important skills to manage their money before they navigate the real world. We examine wealth and money from a biblical perspective so we can learn to honor God with our financial decisions, while taking on topics like budgeting, saving, credit and debt, investing, insurance, careers and more. Students learn through videos, readings, and group activities and a capstone project in this one semester course.

**MATH 531 AP CALCULUS A****MATH 532 AP CALCULUS B**

1 year

Credit: 1

Grade 12

Prerequisite: Pre-Calculus

Requirement: TI-83/84 graphing calculator

This AP class will be given weighted grade on a 5 point scale

Are you interested in how all your previous math courses fit together? Would you like to learn interesting and practical applications involving position, velocity, and acceleration? AP Calculus is a one year course, taken by students who have completed Pre-Calculus. The class is recommended to students who are interested in a math or science related major or career. Student considering engineering majors are strongly encouraged to take AP Calculus. The course will briefly review functions and limits, and then will explore differentiation and integration in greater depth. The course is intended to prepare students for the AP Calculus AB test and at the end of the course students are encouraged to take the AP test for college credit. The approximate cost of this test is \$95.00.

## **MUSIC DEPARTMENT**

**MUS 131 VARSITY CHOIR A**

**MUS 132 VARSITY CHOIR B**

1 year

Credit: 1

Grades 9-12

In the Varsity Choir, students will gain the ability to sing and to develop their singing voice. We will use a wide variety of choral octavos to aid in learning how our voices work, to develop consistent breath control, to learn how to sing with a warm, rich tone, and to learn how to read and understand the musical language. Special attention is given to vocal development, in creating a love for singing, and in identifying why God created music and as to how we can use it to serve both God and others. Members of the Varsity Choir have the opportunity to compete in the District and State Solo and Ensemble, and to audition for the Honors Choir. Membership in the Varsity Choir is open to all students, and no audition is required.

**MUS 231 CONCERT CHOIR A**

**MUS 232 CONCERT CHOIR B**

1 year

Credit: 1

Grades 10-12

Prerequisite: Audition to qualify

In the Concert Choir, students will gain the ability to sing accurately and expressively, learn to sight read new music efficiently, and will be provided the opportunity to serve God, our community and others by using their gifts in music. The Concert Choir is an ensemble designed to challenge each singer to grow musically, to provide students opportunities to perform music in a wide variety of performance venues, and to enable students to learn how to create their own music. Members of the Concert Choir have the opportunities to compete in the District and State Solo and Ensemble, audition for the Regional Honors Choir, the privilege of going on the bi-annual music tour, and participation in the Honors Choir. Students entering the 10th through 12th grades may audition for acceptance into the Concert Choir.

*Honors credit available for Honors Choir students. Contact instructor for details.*

**MUS 141 CONCERT BAND A**

**MUS 142 CONCERT BAND B**

1 year

Credit: 1

Grade 9-12

In the Concert Band, students learn to play in a wide variety of musical genres while solidifying the music theory and musical techniques needed to play successfully in more advanced high school ensembles. The curriculum is largely focused on strengthening the fundamentals learned in middle school band as well as intentional time spent on tone development, increasing independence, and creating a love for instrumental ensemble playing. In addition to traditional evening concerts throughout the school year, this performance-based ensemble participates in various field trips serving our community in unique performance venues and settings. Concert Band also combines with Symphonic Band to play at 3 home football games and 3 home basketball games per year as a part of the High School Pep Band. These opportunities allow students to grow an appreciation for serving those around them using our God-given gifts. Members of the Concert Band have the opportunity to compete in MSBOA Solo & Ensemble, All-State Band, and various regional honors bands. Concert Band is open to all students with at least 3 years of previous playing experience, or through an audition.

**MUS 241    SYMPHONIC BAND A**  
**MUS 242    SYMPHONIC BAND B**

1 year

Credit: 1

Grades 10-12

Prerequisite: Concert Band or by Audition

In the Symphonic Band, students will gain the ability to play their instrument accurately and expressively. Symphonic Band students will be challenged as they master and perform increasingly difficult musical literature with a focus on many master composers for the wind band. This ensemble has an elevated commitment to hard work, both inside and outside rehearsals, and demonstrates high performance expectations. In addition to regular concert performances throughout the school year, Symphonic Band members also play in 3 home football and 3 home basketball games as a part of the High School Pep Band. Students in Symphonic Band will be encouraged and invited to audition for the All-State Band as well as participate in the District/State Solo and Ensemble Festival, and various regional honors bands. Members of the Symphonic Band will have the privilege of participating in the bi-annual music tour. Symphonic Band is open to all students with at least one year of high school playing experience, or through an audition.

**MUS 151    ORCHESTRA A**  
**MUS 152    ORCHESTRA B**

1 year

Credit: 1

Grades 9-12

In Orchestra, students will gain the ability to play their string instrument accurately and expressively, will be challenged to sight read new music efficiently, and will be provided the opportunity to serve God, our community and others by using their gifts in music. Orchestra will provide each student opportunities to be challenged in learning a variety of styles of orchestral literature, in addition to learning how to create their own music. Members of Orchestra will be encouraged and invited to audition for the All-State Orchestra, and to participate in the District and State Solo and Ensemble. Members of Orchestra will have the privilege of participating in the bi-annual music tour. Orchestra is open to all students with four years of playing experience, or through an audition.

## **PHYSICAL EDUCATION DEPARTMENT**

All students who are new to Calvin Christian High School MUST have a physical examination before school begins. For most students, this will mean that they will have a physical examination before they enter the ninth grade. Forms for this examination are available from the high school office.

Students are required to take two semesters of Physical Education in grades 9-12. Foundations of Wellness (PE 1) is required course for all students and is a prerequisite to the PE 2 – PE 5 courses. Sport Ethics is an elective course that does not satisfy the requirement as a semester of physical education.

### **PE 104 Foundations of Wellness (PE 1)**

1 semester

Credit: .5

Grade 9

*Fees will be required for CPR / First Aid*

Have you ever wondered how a heart can keep beating with seemingly no power source, what changes occur in the skin during a tattoo, or why some drugs are illegal and some are not? In this introductory course, all 9th grade students are given the opportunity to experience what the other P.E. classes have to offer, as well as explore the intricate, and sometimes strange, world of the human body.

This is a mandatory course, which must be completed prior to participation in any other physical education course (PE2 – PE5).

### **PE 201 Racquet and Net Sports (PE 2)**

1 semester

Credit: .5

Grades 9-12

Prerequisite: Foundations of Wellness (PE 1)

Whether you are just starting to play "patty cake" or can execute a perfect "hairpin drop", whether you are just learning to "brush the paint" or can really "sizzle the pits", this course is for you. In PE 2, students will be introduced to a variety of sports, utilizing a racket, paddle, or other striking implements, with and without a net. It's all fun and games as we join together for games like pickleball, nitroball, and badminton!

### **PE 132 Team Sports (PE 3)**

1 semester

Credit: .5

Grades 9-12

Prerequisite: Foundations of Wellness (PE 1)

We love American sports, where football and basketball rule the land. But let's take a trip through the kingdom to discover more sports like rugby, lacrosse, and netball. Together we'll explore how to become more active participants through not only playing, but also drawing up plays and coaching one another, ultimately leading to a deeper knowledge and appreciation for these new sports and other physical activities.

**PE 431      Strength & Conditioning (PE 4)**

1 semester

Credit: .5

Grades 9-12

Prerequisite: Foundations of Wellness (PE 1)

Would you like to learn how to work out properly, or separate fact from fiction when it comes to diet and exercise? PE 4 is an opportunity to experience fitness in fun, exciting new ways. This course will familiarize students with the weight room and utilize ballast balls, slastix trainers, and balance boards to take workouts to another level. Students are encouraged to set their personal fitness goals and learn how to reach them THEIR WAY.

*We reserve the right to cancel the offering of this course if less than 15 students are registered.*

**PE 444      Lifetime Activities (PE 5)**

1 semester

Credit: .5

Grade 12

Prerequisite: Foundations of Wellness (PE 1)

*Fees will be required for some off-campus activities*

Would you like to learn how to throw a hyzer, roll a boomer, or work a grigri? How about work on your spock, or hit a Danish Wipe to the tramline? Don't know what these are? Discover these things and more as we focus sports and activities that allow anyone to play, young and old, athletic or not. Bowling, rock climbing and badminton are just a few of the fun things you'll experience here. Have a blast while learning what it takes to stay fit for a lifetime!

**PE 334      Sport Ethics**

1 semester

Credit: .5

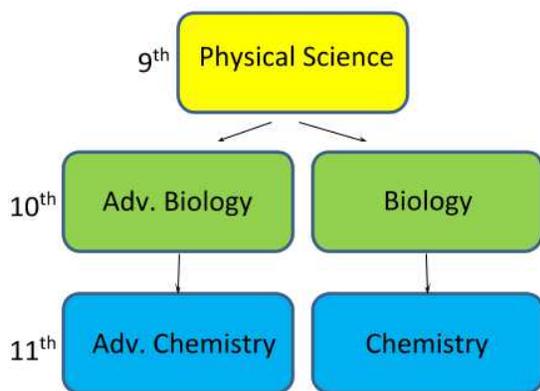
Grades: 11-12

Prerequisite: English 9

Have you ever been standing at your locker, talking to a friend and asked, "Did you see that game last night?" or "Did you hear about what happened in sports yesterday?" Sports play a major role in society today. Whether we are watching, playing, or talking about it, sport and athletics impact our society daily. How are we, as Christians, supposed to react to headlines or to the crowd's treatment towards players and officials? This class will take a deeper look into stories and situations that occur in sports and allow students to form their own opinions about the impact sports has on our society today. Students will build presentation, debate, and research skills as part of this non-traditional PE course.

## SCIENCE DEPARTMENT

- All students are required to take 3 credits of Science.
- A fourth year of science (can be 2 semester courses) *may* qualify a student for an exemption of a science class at *some* colleges. Students should discuss this option with an advisor at the college of their choice.
- Students may double up (take both classes at the same time) on Biology/Chemistry or Chemistry/Physics options.
- The flow chart below shows the options available for the typical student.



### Electives

Physiology  
11<sup>th</sup>/12<sup>th</sup> ½

Env. Science  
10<sup>th</sup>-12<sup>th</sup> ½

Engin. 1  
9-12<sup>th</sup> ½

A.P. Physics  
11<sup>th</sup>/12<sup>th</sup>

Engin. 2  
9-12<sup>th</sup> ½

### Science at CCHS

- 3 credits of science are required for graduation
- “½” denotes that course is one half credit, otherwise courses are 1 credit
- “Advanced” courses focus on preparing students for careers that major in the sciences.
- For academically gifted students, Physical Science can be bypassed with permission from Counseling and Science departments. 3 science credits would still be required for graduation. The expectation is that both Adv. Chemistry and A.P Physics will be taken.

**SCI 101 PHYSICAL SCIENCE A**

**SCI 102 PHYSICAL SCIENCE B**

1 year

Credit: 1

Grade 9

Physical Science explores the structure and behavior of the matter that makes up our world and the forces that are at work around us. This class will encourage students to grow in awe and wonder of God as our creator as we study the atoms, forces and other components of science that we use every day. We also explore our role of stewards of creation and how the knowledge we learn at school can be used to care for ourselves, others around us and our world. Concepts in Chemistry and Physics are developed in class by projects, demonstrations, computer simulations and collecting and analyzing data in the laboratory setting. The overall goal of this course is to give students a solid foundation in Chemistry and Physics while also developing skills in collaboration, problem solving and critical thinking.

**SCI 203      ADVANCED BIOLOGY A**  
**SCI 204      ADVANCED BIOLOGY B**

1 year  
Credit: 1  
Grade 9 or 10

This course is geared toward the student who is considering a career in the sciences and has a faster pace while covering more content than "Biology" (see below). The course seeks to weave two underlying Christian themes throughout a yearlong study of living things: awe and stewardship. From the smallest biochemical molecules to largest of ecosystems, we seek our Creator through His creation and to be awe of what He has done. In response to this awe, we desire to practice stewardship of what we've been put in charge of: the creation. Understanding the biological workings of our creation is essential in practicing good stewardship as we care for the creation and use it to provide for our own needs. Class activities to accomplish this goal include laboratory and field work, media creation, computer simulations, direct instruction, student presentations, and film viewing.

**SCI 213      BIOLOGY A**  
**SCI 214      BIOLOGY B**

1 year  
Credit: 1  
Grade 9 or 10

This course is geared toward the student who is not currently considering a career in a scientific field. While it does meet all standards for high school biology curriculum and keeps the door open to a career in science, its focus is on biology that affects the local community and the biological concepts that are necessary beyond schooling in order to live a life of stewardship and praise to God through our use of and interaction with the Creation. Class activities to accomplish this goal include laboratory and field work, media creation, computer simulations, direct instruction, student presentations, and film viewing.

**SCI 331      ADVANCED CHEMISTRY A**  
**SCI 332      ADVANCED CHEMISTRY B**

1 year  
Credit: 1  
Grades 11-12 (10<sup>th</sup> grade by permission)  
Prerequisites: Advanced Biology and Algebra 1

Any study of God's Creation inevitably leads to an investigation of the basic components that He made and used to form the universe--atoms. Chemistry is the study of these components and what makes them different, how they bond together, and the energy changes that take place when they interact. Topics studied in this course include the Periodic Table, phases of matter, chemical formulas, chemical reactions, the mole concept, stoichiometry, electron structure, solutions, kinetics, equilibrium, and acids and bases. The format of the class is a combination of classroom instruction with demonstrations and student-conducted laboratory investigations. Chemistry is recommended for students with strong mathematical reasoning skills and for those who intend to pursue science or health-related careers.

**SCI 351      CHEMISTRY A**  
**SCI 352      CHEMISTRY B**

1 year

Credit: 1

Grades: 11-12

Prerequisite: Biology or Advanced Biology

Chemistry focuses on environmental issues in the Grandville and West Michigan community, including the Buck Creek watershed. Chemical concepts are studied within the context of these issues. Major themes include materials and the building blocks of chemistry, water-related issues in the community, air/climate/atmospheric issues, energy sources, solid waste disposal and recycling. The format is a combination of classroom instruction with demonstrations and student-conducted laboratory investigations. Chemistry includes fewer mathematical and theoretical concepts than Advanced Chemistry.

**SCI 344      PHYSIOLOGY**

1 semester

Credit: .5

Grades 11-12

This course is based on Psalm 139: 13-14: "For you created my inmost being; you knit me together in my mother's womb. I praise you because I am fearfully and wonderfully made; your works are wonderful, I know that full well."

How are we fearfully and wonderfully made? In what way are we knit together? How can I keep my body holy and healthy as an act of stewardship to God? Physiology aims to exam the structure and function of the major systems of the human body. This course is intended for those students who desire to gain a further appreciation and knowledge of the human body. It also provides an introductory experience for students who are interested in health-related careers. Class activities include laboratory work, discussions, film viewing, direct instruction, student presentations, and guest lecturers.

**SCI 234      ENVIRONMENTAL SCIENCE**

1 semester

Credit: 0.5

Grade 10-12

Environmental Science is an interdisciplinary course and will cover topics from biology, chemistry, and earth science as well as incorporate other perspectives (economic, societal, and religious) when evaluating environmental issues. The emphasis of this course will be on assessing air quality, water quality, land quality, energy use, and waste disposal. Students will wrestle with some of the problems we face in our local community and our larger global community in these areas, and consider possible solutions. The overall goal of this course will be for students to apply the content they learn to live out the mission of our school and grow in their role as stewards of creation. This course is recommended for any student interested in environmental issues or planning to pursue a career in environmental studies.

*We reserve the right to cancel the offering of this course if less than 15 students are registered.*

**SCI 501      AP PHYSICS A**

**SCI 502      AP PHYSICS B**

1 year

Credit: 1

Grade 12

Prerequisites: Geometry and Algebra 2

This AP class will be given weighted grade on a 5 point scale

This class may be taken to meet senior math credit requirements.

Physics is the study of the way the world works. It includes everyday concerns such as: "How can I most efficiently cook pasta?" or "What is the best way to tighten or loosen a bolt?" or less common experiences such as "Why does an astronaut experience weightlessness?" or "Why does the length of a year differ for each of the planets?"

The first semester of Physics will primarily focus on relationships of matter in motion: displacement, velocity, acceleration, force, momentum and planetary motion. The second semester will primarily study energy and waves: kinetic and potential energy, simple machines, heat, light, sound, magnetism, and electricity. This course includes lectures, discussion and laboratory work. This course is recommended for college preparatory students who are planning to be math or science majors, or are interested in health related careers.

The course is intended to prepare students for the AP Physics 1 test and at the end of the course students are encouraged to take the AP test for college credit. The approximate cost of this test is \$95.00.

## **SOCIAL STUDIES DEPARTMENT**

All students must complete World History, United States History (two semesters), Global Studies, Economics, and Government or AP Government to meet the 3.0 credit requirement in Social Studies. Additional classes are provided as electives. Required classes are generally taken in the sequence below, but some classes may be taken early/late by request, as noted.

9th Grade:	World History	(1 semester - 0.5 credits)
10th Grade:	US History	(1 year - 1.0 credit)
11th Grade:	Economics	(1 semester - 0.5 credits) <u>and</u>
	Global Studies	(1 semester - 0.5 credits)
12th Grade:	Government OR AP Government	(1 semester - 0.5 credits)

- \* Economics and Global Studies may be taken in 10th grade per request and teacher approval or delayed until 12<sup>th</sup> grade per request and teacher approval.
- \* A.P. Government is taken by request and approval during fall of 11th or 12th grade

### **SS 104      WORLD HISTORY**

1 semester  
Credit: .5  
Grade 9

Why study history? How does something 2000 years ago impact my life now? How do we, as Christians, judge what has happened in the history of the world? Through the eyes of Western Civilization, students will answer these questions as they begin to wrestle with historical bias and truth. Students will learn to write for history by defending their argument with historical fact while learning through discussion, simulation, film and collaboration. Inquiry based learning will guide the student through Sumeria, Classical Civilizations, Islam's Rise and Empires, the Middle Ages, Renaissance & Reformation, and the Industrial Revolution of England.

### **SS 201      UNITED STATES HISTORY A**

### **SS 202      UNITED STATES HISTORY B**

1 year  
Credit: 1  
Grade 10  
Prerequisite: World History

How do I, as an American citizen and a Christian, live in this world as an ambassador for God's kingdom? Beginning with Reconstruction and ending with current issues, United States History will focus on themes of leadership, civic responsibility, imperialism and expansion, immigration, equality, competition, and justice. With personal and collaborative projects over material in both semesters, students will be immersed in learning how historians research as they discern what is truth, analyze primary documents, and question past historical interpretations. Class will include discussion, simulation, film and debate as students work to perceive and act on what it means to be a Christian in an ever changing America.

**SS 334        GLOBAL STUDIES**

1 semester

Credit: .5

Grades: 11-12 (10th by request)

Prerequisites: World History, United States History

Take a close look at any news story about a global conflict and ask yourself: "What economic, geographic or historic element might be causing this crisis? Building on the base of 9th grade World History, Global Studies provides students with historical events of the past 200 years (including colonialism/imperialism/nationalism and the Cold War) to understand historic and economic realities of today. After developing a strong foundation about how our geopolitical world is set up, this class will address how we as Christians, can bring Hope into world issues through government and non-government actions.

**SS 354        ECONOMICS**

1 semester

Credit: .5

Grades 11-12

Economics surrounds us and we often don't even realize it! This class will help us realize how pervasive economic issues are in all of our decisions, but more than that, this class will help us grapple with 2 huge questions Christians in our society must answer: "When do markets work best and when do they not?" and "Can we obey God best through markets or through government?" While we will do this, we will look at both microeconomics and macroeconomics in how individuals, businesses, and governments make choices to fulfill their needs, despite limited resources. Students engage in discussions, activities, and projects to better understand supply and demand, business structures, investing, labor, the role of the government, fiscal and monetary policies, and current economic problems.

**SS 434        GOVERNMENT**

1 semester

Credit: .5

Grade 12

Can I like government and hate politics? What are fundamental rights and how, do I, as a Christian advocate for or against them? What are fallacies and how do politicians use them? How and why should someone compromise to achieve a political goal? These and many other questions will be explored in US Government as students learn about the constitutional government and are equipped to be active participants in the present and future. Topics of study include federalism, the Bill of Rights, the lawmaking process, ideologies and party beliefs, and the role of the president and executive branch. Methods of learning government will include discussing and debating current political issues, class simulations (including a US Supreme Moot Court), primary source readings and activities (including conducting a public opinion poll in a local community).

## **SS 431        ADVANCED PLACEMENT AMERICAN GOVERNMENT AND POLITICS**

1 semester

Credit: .5

Grades 11-12

*This AP class will be given a weighted grade on a 5 point scale*

Are you ready for a challenge? A.P. Government focuses on broad understandings of the United States government. We will explore government structure, asking questions like "Why did the federal government add a bill of rights?" We will also examine specific case studies within these broad understandings, such as "When and why did "privacy" become part of the bill of rights?" Advanced Placement offers a more complex analytical approach to regular government curricular topics, all based on standards from the AP College Board. The course is taught with a college textbook and quizzes and tests are administered to students under standard AP time conditions.

Students will be strongly encouraged to take the AP test administered in mid-May. The cost for this is approximately \$95.00. College credit is typically earned by 75-85% of students taking the course.

## **SS 341        SOCIOLOGY**

1 semester

Credit: .5

Grades 11-12 (Grade 10 with school approval and if there is available space)

Have you ever wondered what effects culture has on human behavior and interactions? Do you know how social structure influence our interactions? How do rules and norms impact the formation of roles and groups? What defines deviance? How are families structured? You are invited to examine these questions and more as we look closely at the development, structure, and functioning of human society through a Christian worldview.

*As a school we are exploring options where students who take this course may be able to pursue dual enrollment to earn college credit.*

## **SS 364        PSYCHOLOGY**

1 semester

Credit: .5

Grades 11-12 (Grade 10 with school approval and if there is available space)

In Psychology, curious students are able to explore the scientific methods and psychological concepts of learning, motivation, development, personality, stress, memory, and psychological disorders and treatments. This relatively young science is bursting with opportunities to engage in learning how to analyze, interpret, and apply our newfound knowledge as we engage in our world and learn about ourselves. This is an elective 1 semester course.

*As a school we are exploring options where students who take this course may be able to pursue dual enrollment to earn college credit.*

**SS 374      APPLIED PSYCHOLOGY**

1 semester

Credit: .5

Grades 11-12

Applied Psychology is an elective course open to seniors and juniors that examines, through the study of the mind, the challenges of building God-honoring relationships as adults. The course will explore the following topics: self-awareness; responsibilities of living as an independent adult including stress management, decision making, and effective communication; relationship development and conflict training outside of the family; and the factors that contribute to success in college and the workplace. Through class discussion, projects, guest speakers, and personal reflection, students will grow in developing interpersonal, decision-making, and practical skills related to daily Christian life. Throughout this class we will developing skills in reading, writing, collaboration, and critical thinking.

# SPANISH IMMERSION DEPARTMENT

## PROGRAM OVERVIEW

The high school portion of our Secondary Continuing Spanish Immersion program began in the Fall of 2018. As this part of our program is still in the development process, some of the details below are subject to change, but the general plan will remain the same. Students will be offered at least two courses in Spanish each year - one content course and one language course. We plan to partner with Calvin College for the junior and senior year language courses. See below for the tentative plan for the 9th-12th grade program.

	<b>1st Semester</b>	<b>2nd Semester</b>
<b>9th Grade</b>	Spanish 9 World History	Spanish 9 Old Testament Survey
<b>10th Grade</b>	AP Spanish Language and Culture US History	AP Spanish Language and Culture US History
<b>11th Grade</b>	Calvin College Spanish Course *Global Studies	Calvin College Spanish Course *Economics
<b>12th Grade</b>	Calvin College Spanish Course *Reformed Doctrine	Calvin College Spanish Course *Government

\*Content courses are subject to change.

To participate in the Spanish Immersion courses, students must have successfully completed a K-8 Spanish Immersion program, pass a placement test, or receive special permission from the instructor.

**SI 101      SPANISH 9 A**

**SI 102      SPANISH 9 B**

1 year

Credit: 1.0

Grade 9

The Spanish 9 course will build on the language skills developed in the middle school immersion program and prepare students for participation in the AP Spanish Language and Culture course to be taken in their sophomore year. The course will increase students' proficiency in interpersonal listening and speaking, interpretive reading, and presentational writing. Spanish 9 will continue to teach students about the variety of people and cultures of the Spanish-speaking world, exposing them to different accents and dialects. The course will also include a community component, allowing students to use their language skills to live out the mission of Grandville Calvin Christian Schools by serving and learning from others.

**SI 103 SPANISH IMMERSION WORLD HISTORY**

1 semester  
Credit: .5  
Grade 9

The Spanish Immersion World History course will be similar to the English World History course (see course description on page 38) but taught in Spanish. The course will be structured around the same topics and themes as the English course while also addressing the linguistic needs of students learning in a second language.

**SI 104 SPANISH IMMERSION OLD TESTAMENT SURVEY**

1 semester  
Credit: .5  
Grade 9

The Spanish Immersion Old Testament course will be similar to the English Old Testament course (see course description on page 15) but taught in Spanish. The course will be structured around the same topics and themes as the English course while also addressing the linguistic needs of students learning in a second language.

**SI 201 SPANISH IMMERSION US HISTORY A  
SI 202 SPANISH IMMERSION US HISTORY B**

1 year  
Credit: 1.0  
Grade 10

The Spanish Immersion US History course will be similar to the English US History course (see course description on page 38) but taught in Spanish. The course will be structured around the same topics and themes as the English course while also addressing the linguistic needs of students learning in a second language.

**SI 501 AP SPANISH LANGUAGE AND CULTURE A  
SI 502 AP SPANISH LANGUAGE AND CULTURE B**

1 year  
Credit: 1.0  
Grade 10

The AP Spanish Language and Culture course will continue to build students' proficiency across the three modes of communication - interpretive, interpersonal, and presentational - emphasizing communication in real-life situations. Instruction will be centered on vocabulary, grammar, communication strategies, and cultural awareness. The course will engage students in the study of authentic and relevant themes that integrate language, content, and culture and will include a community component.

## **YEARBOOK**

**YB 331      YEARBOOK A**

**YB 332      YEARBOOK B**

1 year

Credit per semester: .125

Prerequisite: Permission of sponsor

In Shadow the students learn and apply the basic steps in producing a school yearbook including everything from selling advertisements to cropping pictures, editing copy, and designing layouts.

**YB 431      YEARBOOK EDITOR A**

**YB 432      YEARBOOK EDITOR B**

1 year

Credit per semester: .5

Prerequisite: Two years on the Yearbook staff

The editor position is the culmination of productive work on previous yearbooks. Editors are chosen at the discretion of the advisor.

## KENT CAREER TECHNICAL COURSES

### TECH 331-332      Tech Center

1 year

Credit per semester: 1.5

### TECH 361-362      Kent Transition Center

Students enroll in these courses only as part of an approved educational plan by either the Educational Support Services Coordinator or by the Inclusive Education Director.

The Kent Intermediate District offers this unique opportunity for 11th and 12th grade students to begin vocational training while still in high school. This training takes place under the instruction of experts in career fields in a laboratory designed specifically for each course. Courses last for either one or two years, meet for 2 ¼ hours per day, and receive three credits per year towards students' high school transcripts. Students who attend the Tech Center will be required to take three courses at Calvin in addition to their Tech Center course. Because the availability of openings is limited for each school in each course, students are expected to complete the courses in which they enroll.

Tech Center courses may be used in some cases to fulfill state graduation requirements. You will need to talk with your counselor to determine if this would apply to you for the course you are considering. (See page 50 for the High School Equivalency guide sheet)

#### **Special Scheduling Notes:**

- ***Students who enroll in Tech Center programs will be enrolled in Session I which meets from 6:55 – 9:10 every day. To accommodate this into the Calvin Christian Schedule Tech Center students have the first three periods of the day devoted to KCTC and therefore can only select 4 other classes each semester.***
- KCTC students will be automatically assigned to a 3<sup>rd</sup> period study hall. Due to travel times these students will routinely miss several minutes of this period.
- If necessary, students may request to take a fifth class at Calvin Christian instead of the 3<sup>rd</sup> period study hall. Due to travel times these students would routinely miss several minutes in whatever class was scheduled during 3<sup>rd</sup> period at Calvin Christian and would need to be proactive in completing work missed during this time.
- In certain circumstances students may meet with their counselor to determine if a different session may be possible for scheduling Tech Center Programs: Either Mid-day (9:15-11:30) or Afternoon (12:00-2:15). In most cases this is not possible.

#### **Special Enrollment Notes:**

- ***Enrollment in Tech Center courses begins in early February. Students interested in these programs should meet with their counselor to enroll in these courses before enrolling in their CCHS courses.***
- In order to enroll in a Tech Center course, students must complete the following procedures:
  - Meet with a school counselor to explore program options.
  - Go on a program visit to the Kent Career Technical Center (KCTC).
  - Have the school counselor enroll them in the KCTC program of their choice
  - Register for Tech Center on their Junior/Senior registration form.

The following is a list of courses offered at the Tech Center. Students who desire information about these courses can pick up descriptive booklets in the counseling office. *The descriptions come from the KCTC website, <http://thetechcenter.org>.*

### **Arts and Communications Pathway**

- **Graphic Communications** - Combine art and technology to speak to an audience. Design and create professional level artwork including logos, brochures, advertisements and web sites. Learn how to take a creative idea from conception to visual presentation using everything from color theory, layout and design, typography and printing. Find out what it's really like to be a graphic artist, printing press operator, web designer and more.
- **3D Animation and Game Design** – Use your imagination to create art pieces, video games, and even solutions to real problems. Bring your designs to life through animation and 3D printing. Go beyond movies and gaming to discover a range of industries and careers in 3D animation. Plus, earn up to 9 free credits at Ferris State University.

### **Business, Management, Marketing, and Technology Pathway**

- **Accounting Online** – Students excited by leadership, the stock market, organization, working with numbers and technology would be a good fit for this program. Accounting Online introduces students to accounting cycles and systems, business, analysis of transactions and the e-Commerce world. Students must be able to motivate themselves to accomplish this course.

### **Business, Management, Marketing, and Technology Pathway (continued)**

- **Information Technology** – Get hands-on experience with the tools and technology that drive our world as you explore the field of IT. Learn computer fundamentals as you build and troubleshoot PCs and problem solve some of today's common computer issues. Prepare yourself for careers in PC support, networking, programming and systems management as you earn high school and college credit.
- **Entrepreneurship and Marketing Program** – Explore the exciting world of marketing each day as you learn about current topics such as social media marketing. Learn keys to a successful business including advertising, store layout and design, international marketing, e-commerce, entrepreneurship, market research and customer service. Create sales and marketing materials and develop a real business plan. Find out what it's really like to work in marketing, advertising and business by working with local business owners who do it every day.

### **Health Sciences Pathway**

- **Health Careers** – Care for actual patients as you get a jump start on your future health care career. Get the basics in medical terminology, anatomy and physiology while spending time with real health care professionals to see what it's really like working with patients every day. With four course offerings, you will get to focus on the areas of healthcare that interest you most. Choose from:
  - Certified Nursing Assistant
  - Exploring Health Careers
  - Pharmacy Technician
  - Rehabilitation
- **Health Sciences Early College Academy** – Get real healthcare experience and free college credit in actual healthcare settings! You could be on your way to becoming a geneticist, biomedical engineer, doctor or whatever healthcare career is right for you. If you will be a high school junior or senior with a minimum 3.0 GPA and some math and science background, this could be just the program for you.

## Human Services Pathway

- **Hospitality and Culinary** – Students in this program learn beginning hospitality and culinary concepts and rotate through areas including dining room service, quantity cooking, baking, sanitation, and travel/tourism. In the second year, students learn specialized skills in several fields. With our own kitchens, restaurant, cafeteria and bakery, students experience a full range of hospitality careers.
- **Criminal Justice** – Perform field operations and patrol tactics while you explore the world of law enforcement and corrections. Learn to operate radar, radio and dispatch equipment and handcuffs. Practice self-defense and firearms safety. Get the basics in field operations, security and military tactics, forensics, legal services and emergency response. Train with real police officers, medical technicians and lawyers and find out what it is really like to work in criminal justice.

## Engineering/Manufacturing and Industrial Technology Pathway

- **Applied Construction Technology** – Build homes for local families, work with professionals and learn all aspects of the construction field. Begin with house plans and framing and end with custom cabinetry, exterior decks and interior finishes. This two-year program covers all aspects of residential construction. You can earn your 10-hour MiOSHA safety certification during the first year in the program, which means you will be eligible to actually work in the field – even before you graduate.
- **Engineering & Architectural Design** – Gain high-level experience and skills in engineering and architecture and learn how these disciplines interact in building products or communities. Begin with an overview and then choose either an engineering or architectural design path for the rest of your year.
- **Heating, Ventilation, Air Conditioning & Refrigeration (HVACR)** - Learn the basics of this highly specialized industry, including the mechanics, circuits, controls and programmable controllers used in residential and commercial applications. In the installation year, you will apply mechanical code to the planning and installation of systems and learn how job costing is done. In the service year, you will learn system design, refrigeration and hot water systems and the important role this industry has in environmental protection.
- **Precision Machining Technology** – Learn the most advanced techniques and equipment in parts and tool design in this high-skill engineering-related field. Held in state-of-art labs in GRCC's Applied Technology Center downtown, students learn everything from programming to operation of advanced manufacturing equipment, right on the college campus. Explore the full range of machine tools, from precision measurement and hand tools to the latest computer numerical controlled (CNC) lasers.
- **Auto Collision Repair** – Learn the highly technical world of car refinishing and restoration as you repair damaged vehicle exteriors. From cost estimating to color matching, application of specialized fillers, paints and coatings, you will explore all the techniques industry professionals use to restore and customize vehicles. Students can earn certifications and begin apprenticeships as part of their study.
- **Automotive Technology** – Join our nationally certified program to learn the latest techniques and technology in automotive systems. You will explore a wide range of careers while learning these systems and the way vehicle service companies work. Students specialize in two of four career tracks:
  - Brakes
  - Engine Repair
  - Electrical/Electronics
  - Suspension, Steering

Our ASE-certified instructors follow the standards required for NATEF program certification. What does that mean to you? The cars, tools, equipment and lessons are up to date with industry standards.

## Engineering/Manufacturing and Industrial Technology Pathway (continued)

- **Aviation Electronics** – Immerse yourself in the exciting, high tech world of aviation electronics! Explore navigation, communication and instrument systems used in technologically advanced aircraft - including the electronics components used to make "black boxes" work. Discover how all of the electronics systems function, how pilots use them to fly the aircraft, and how air traffic controllers rely on them to control the flow of traffic. You will also prepare for the nationally recognized Aircraft Electronics Technician (AET) certification offered by NCATT, the National Center for Aerospace and Transportation Technologies.
- **Aviation Maintenance Technology** – Immerse yourself in the operation of the busy Gerald R. Ford International Airport, where the thunder of jet engines and air-whipping helicopter blades become your daily soundtrack. Whether you're a senior taking the program for one year or a junior taking it for two, you'll explore real world careers ranging from aeronautical engineering and aviation maintenance, to pilot, air traffic controller and more. Your classroom is our own 20,000 square-foot hangar complete with a variety of operational aircraft. This is where students disassemble, inspect, reassemble and operation check a variety of components, plus learn how to start and operate a turbine engine, start and taxi single engine aircraft, and begin earning professional certifications.
- **Diesel and Equipment Technology** – Learn all aspects of the heavy equipment that the construction, trucking, agricultural and material handling industries rely on. Understand the engine, hydraulic, power train and electrical systems that make this equipment operate effectively. Use the tools and repair equipment the professionals do as you learn to service, repair and rebuild vehicle components.
- **Design Lab** - Use your imagination and creativity to design solutions to real-world problems in this hands-on, technology-charged program just for 10th-grade students. The class focuses on the relationship between science, technology, engineering, and mathematics (STEM) and the design process. Major topics include electrical circuits, computer-aided design, woodworking, robotics, computer programming, and alternative energy. The goal of design lab is to use STEM concepts to solve problems. The class meets every day Monday through Friday for about 2 hours and 15 minutes. In order to keep up with graduation requirements, each student will also choose an online math, science or career exploration course.

Design Lab students tackle projects using design thinking. We partner with instructors right here at KCTC and industry professionals and to provide you the resources and tools you need to successfully solve problems and accomplish our class goals. By the end of the course, you will have had a wide range of experiences and opportunities which help to shape your future college and career choices.

- **Mechatronics** – High-tech robotics, advanced electronics and clean manufacturing are just a few of the areas covered. Mechatronics combines traditional fields of mechanical engineering, electrical engineering, IT and control systems. Careers in this field are high demand, high skill and high wage with a lot of advancement possible.
- **Welding Technology** - Join our program to become one of the most in-demand professionals around - a skilled welder! Work with virtual reality and actual welding equipment as you learn several major arc welding techniques including Gas Metal, Gas Tungsten, Shielded Metal, Oxy-Fuel and Flux Core.

## Natural Resources and Agriscience Pathway

- **Sustainable Agriscience** – Grow your green thumb in our greenhouse, arboretum and several residential sites. Learn how to identify and propagate plants, operate basic agriscience equipment, manage pests and operate a nursery and greenhouse. Work outdoors and create beautiful landscapes. Explore the latest careers in agriscience like landscape designer, groundskeeper, nursery manager, golf course technician and parks and recreation worker.

# High School Credit Equivalency by Tech Center Program

Academic credit is awarded by each student's local high school and is subject to local district policies.

## Arts & Communications

	Math		ELA		Science		World Language	
	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit
Graphic Communications	*1	0.5	1	0.5	1	1	1	1
3D Animation/Game Design	1	0.5	1	0.5	1	1	1	1

## Business, Management, Marketing

	Math		ELA		Science		World Language	
	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit
Information Technology	1	0.5	1	0.5	1	1	1	1
Advanced Information Technology	1	0.5	1	0.5	1	1	1	1
Entrepreneurship & Marketing	1	0.5	1	0.5	1	1	1	1

## Engineering, Manufacturing, Industrial Technology

	Math		ELA		Science		World Language	
	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit
Applied Construction Technology	*1	0.5	1	0.5	1	1	1	1
Engineering & Architectural Design	*1	0.5	1	0.5	1	1	1	1
Precision Machining	*1	0.5	1	0.5	1	1	1	1
HVACR	1	0.5	1	0.5	1	1	1	1
Mechatronics	1	0.5	1	0.5	1	1	1	1
Advanced Mechatronics	1	0.5	1	0.5	1	1	1	1

## Transportation

	Math		ELA		Science		World Language	
	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit
Auto Collision	*1	0.5	1	0.5	1	1	1	1
Automotive Technology	*1	0.5	1	0.5	2	1	2	1
Aviation Electronics	1	0.5	1	0.5	1	1	1	1
Aviation Maintenance Technology	*1	0.5	1	0.5	1	1	1	1
Diesel & Equipment Technology	*1	0.5	1	0.5	1	1	1	1

## Health Sciences

	Math		ELA		Science		World Language	
	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit
Certified Nursing Assistant (CNA) / NT	1	0.5	1	0.5	1	1	1	1
Rehabilitation	1	0.5	1	0.5	1	1	1	1
Exploring Health Careers	1	0.5	1	0.5	1	1	1	1
Pharmacy Technician	1	0.5	1	0.5	1	1	1	1
Health Sciences Early College Academy	1	0.5	1	0.5	1	1	1	1

## Human Services

	Math		ELA		Science		World Language	
	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit
Criminal Justice	*1	0.5	1	0.5	1	1	1	1
Introduction to Hospitality	1	0.5	1	0.5				
Advanced Culinary/Pastry	1	0.5			*2	1	*2	1

\* Students must complete Introduction to Hospitality and Advanced Culinary or Pastry to replace a full Science & World Language credit.

## Agriscience

	Math		ELA		Science		World Language	
	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit	Yrs@KCTC	Credit
Sustainable Agriscience	*1	0.5	1	0.5	2	1	2	1

\* Students that complete 2 years of these programs are eligible for an additional .5 math credit.

**Note:** All the programs listed meet MMC VPAA and OLE requirements. Students completing these programs over the number of years indicated for Science and World Language may use this credit to replace the MMC required 2nd credit of World Language and the 3rd Science credit requirement, per MCL 380.1278a and MCL 380.1278b. **Contact KCTC counselors Gary Moline, Angie Pulera or Lara Roessler for more information.**

### Design Lab: 10th Grade Students

Students in Design Lab attend a full session at KCTC (2.25 hours). A portion of this class consists of an online course students select with the assistance of their sending school counselor that will meet an MMC or elective requirement. The courses available are: Geometry, Algebra II, Biology, Chemistry, Physics, Honors Algebra 2, Honors Chemistry, Honors Biology, Honors Physics and College and Career Preparation. Students complete the entire two semester course during their full year in Design Lab.

## NCAA Division I Academic Requirements

College-bound student-athletes will need to meet the following academic requirements to practice, receive athletics scholarships, and/or compete during their first year.

### Core-Course Requirement

Complete 16 core courses (16 credits) in the following areas:

- |  |                       |
|--|-----------------------|
| • English  | 4 years (4.0 credits) |
| • Math   | 3 years (3.0 credits) |
| • Natural/Physical Science   | 2 years (2.0 credits) |
| • Additional Core  | 1 year (1.0 credit)   |
| ○ Additional English, Math, or Natural/Physical Science                      |                       |
| • Social Science   | 2 years (2.0 credits) |
| • Additional Courses   | 4 years (4.0 credits) |
| ○ Any area listed above, foreign language or comparative religion/philosophy |                       |

### Full Qualifier

- Complete 16 core courses.
- Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
- Seven of the 10 core courses must be in English, math or natural/physical science.
- Earn a core-course GPA of at least 2.300.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see next page).
- Graduate high school.

### Academic Redshirt

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see next page).
- Graduate high school.

### Test Scores

- When a student registers for the SAT or ACT, he or she can use the NCAA Eligibility Center code of 9999 so his or her scores are sent directly to the NCAA Eligibility Center from the testing agency. Test scores on transcripts will NOT be used in his or her academic certification.
- A combined SAT score is calculated by adding reading and math sub-scores.
- An ACT sum score is calculated by adding English, math, reading and science sub-scores.
- A student may take the SAT or ACT an unlimited number of times before he or she enrolls full time in college. If a student takes either test more than once, the best sub-scores from each test are used for the academic certification process.
- If you took the SAT in March 2016 or after, and plan to attend an NCAA Division I college or university in the 2018-19 or 2019-20 academic years, use the following charts to understand the core-course GPA you need to meet NCAA Division I requirements.
- For more information on the SAT, visit the College Board's website.

<b>DIVISION I FULL QUALIFIER SLIDING SCALE</b>			
<b>Core GPA</b>	<b>New SAT*</b>	<b>Old SAT (Prior to 3/2016)</b>	<b>ACT Sum</b>
3.550	400	400	37
3.525	410	410	38
3.500	430	420	39
3.475	440	430	40
3.450	460	440	41
3.425	470	450	41
3.400	490	460	42
3.375	500	470	42
3.350	520	480	43
3.325	530	490	44
3.300	550	500	44
3.275	560	510	45
3.250	580	520	46
3.225	590	530	46
3.200	600	540	47
3.175	620	550	47
3.150	630	560	48
3.125	650	570	49
3.100	660	580	49
3.075	680	590	50
3.050	690	600	50
3.025	710	610	51
3.000	720	620	52
2.975	730	630	52
2.950	740	640	53
2.925	750	650	53
2.900	750	660	54
2.875	760	670	55
2.850	770	680	56
2.825	780	690	56
2.800	790	700	57
2.775	800	710	58

<b>DIVISION I FULL QUALIFIER SLIDING SCALE</b>			
<b>Core GPA</b>	<b>New SAT*</b>	<b>Old SAT (Prior to 3/2016)</b>	<b>ACT Sum</b>
2.750	810	720	59
2.725	820	730	60
2.700	830	740	61
2.675	840	750	61
2.650	850	760	62
2.625	860	770	63
2.600	860	780	64
2.575	870	790	65
2.550	880	800	66
2.525	890	810	67
2.500	900	820	68
2.475	910	830	69
2.450	920	840	70
2.425	930	850	70
2.400	940	860	71
2.375	950	870	72
2.350	960	880	73
2.325	970	890	74
2.300	980	900	75
2.299	990	910	76
2.275	990	910	76
2.250	1000	920	77
2.225	1010	930	78
2.200	1020	940	79
2.175	1030	950	80
2.150	1040	960	81
2.125	1050	970	82
2.100	1060	980	83
2.075	1070	990	84
2.050	1080	1000	85
2.025	1090	1010	86
2.000	1100	1020	86

## NCAA Division II Academic Requirements

College-bound student-athletes first enrolling at an NCAA Division II school on or after Aug. 1, 2018, need to meet new academic rules to practice, compete and receive athletics scholarships during their first year.

### Core-Course Requirement

Complete 16 core courses (16 credits) in the following areas:

- |  |                       |
|--|-----------------------|
| • English  | 3 years (3.0 credits) |
| • Math   | 2 years (2.0 credits) |
| • Natural/Physical Science   | 2 years (2.0 credits) |
| • Additional Core  | 3 years (3.0 credits) |
| ○ Additional English, Math, or Natural/Physical Science                      |                       |
| • Social Science   | 2 years (2.0 credits) |
| • Additional Courses   | 4 years (4.0 credits) |
| ○ Any area listed above, foreign language or comparative religion/philosophy |                       |

### Full Qualifier

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.200.
- Earn the ACT/SAT score matching your core-course GPA on the Division II full qualifier sliding scale (see next page).
- Graduate high school.

### Partial Qualifier

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see next page).
- Graduate high school.

### Test Scores

- If you took the SAT in March 2016 or after, and plan to attend an NCAA Division II college or university in the 2018-19 or 2019-20 academic years, use the following charts to understand the core-course GPA you need to meet NCAA Division II requirements.
- A combined SAT score is calculated by adding reading and math sub-scores.
- An ACT sum score is calculated by adding English, math, reading and science sub-scores.
- You may take the SAT or ACT an unlimited number of times before you enroll full time in college.
- If you take either test more than once, the best sub-scores from each test are used for the academic certification process.
- For more information on the SAT, visit the College Board's website.

<b>DIVISION II FULL QUALIFIER SLIDING SCALE</b>			
USE FOR DIVISION II BEGINNING AUGUST 2018			
<b>Core GPA</b>	<b>New SAT*</b>	<b>Old SAT (Prior to 3/2016)</b>	<b>ACT Sum</b>
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

<b>DIVISION II PARTIAL QUALIFIER SLIDING SCALE</b>			
USE FOR DIVISION II BEGINNING AUGUST 2018			
<b>Core GPA</b>	<b>New SAT*</b>	<b>Old SAT (Prior to 3/2016)</b>	<b>ACT Sum</b>
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