

2023-24
ACADEMIC GUIDE
CENTER GROVE HIGH SCHOOL





CENTER GROVE HIGH SCHOOL
Academic Guide

2023-2024 Academic Year

36th Edition
January 2023

Disclaimer: This is a live document and information is subject to change.

FOREWORD

This publication is designed as a guide for students, parents, counselors, teachers, and administrators to assist in planning high school courses and graduation. Included you will find course requirements, graduation requirements, and other course information.

Careful steps should be taken in planning the student's high school courses. Students and parents should review progress yearly to ensure graduation requirements are met and to adjust should the student's goals change.



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MISSION

It is the mission of Center Grove High School to provide meaningful learning experiences that will prepare students for post-secondary opportunities and empower them to thrive in the 21st century.

VISION

Center Grove High School strives to be a safe and challenging institution that values the use of innovative and diverse teaching strategies, the immersion of technology, and strong community involvement.

VALUE STATEMENTS

- We will provide a safe, creative, and challenging learning environment that consists of numerous curricular and extracurricular opportunities for our students.
- We will provide an environment that prepares our students for the future by instilling 21st-century learning skills and embedding opportunities for students and teachers to access and use advancing technologies.
- We will inspire students to be lifelong learners who can thrive as independent learners in a collaborative environment while also preparing them to be productive, accountable, and responsible citizens.
- We will utilize multi-sensory teaching styles and strategies that will connect with students and will teach relevant content that is derived from adopted state and national standards.
- We will offer a positive and caring school culture that will encompass an environment in which teachers help mentor students throughout the high school experience.
- We will foster professional development, teacher collaboration, and teacher input to attain maximum achievement for our students and school.
- We will promote a culture that offers various academic opportunities that will guide students in their pursuit of post-secondary career goals.
- We will offer a collaborative community environment that will allow teachers, students, administration, parents, and other stakeholders to work together on the various facets of the high school experience.

21ST CENTURY SKILLS/PROFICIENCIES

In addition to core academic content, Center Grove High School believes in developing the following 21st-century skills/proficiencies:

- Collaboration
 - Communication
 - Creativity and Innovation
 - Global Awareness
 - Political and Economic Awareness
 - Adaptability
 - Financial Literacy
 - Technology
 - Critical Thinking
 - Optimal Health and Wellness
 - Independence and Responsibility
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INTRODUCTION

Center Grove High School has prepared this handbook to assist you in course selections for the coming school year. It contains information on graduation requirements, the classes that are available and recommended curricula for vocational and collegiate experiences. Additionally, information is available regarding class rank and grade point average calculations as well as opportunities for honors classes, advanced placement testing, and dual credit options. We hope that by providing as much information and assistance as possible, we will make it possible for each student to make the most of his/her educational opportunities.

ACADEMIC YEAR

The normal academic year is defined as the first day of school in the fall through the last day of summer school. For incoming freshmen, the academic year is defined as the first day of enrollment in high school classes through the last day of summer school.

BLOCK SCHEDULE

Center Grove High School operates on an eight-block schedule. Students are scheduled for seven classes and a study hall that meets every other day.

SCHEDULE CHANGE POLICY

Course selections will be completed online. Beginning in November, counselors will review student course requests on an individual basis.

After students register for classes, teachers will be hired and teacher schedules established based on selections made by students. **Yearlong course requests are yearlong commitments and students *will not* be allowed to drop the second semester of yearlong courses unless the request meets the criteria listed below.** Similarly, changes in chosen second-semester classes cannot be made at the end of the first semester.

Student schedules will not be changed after May 1, 2023 unless the following exists:

- Need to meet high school graduation requirement
- Need to meet college entrance requirement
- Need to balance over-crowded classes
- An error in computer entry
- Late staff changes

Requested changes related to teacher assignments, lunch assignments, class periods, etc., will not be considered.

DRIVERS EDUCATION

Driver Education classes are offered through the [Central Indiana Educational Service Center](#). The classes are four weeks in length and are taught at area high schools, including Center Grove, after school hours. For more information, schedules of classes and enrollment forms are available online at the [CIESC](#) site and also in the high school office. You may also call the CIESC at **317-759-5560**.

SUMMER SCHOOL

During schedule planning meetings with your student, if your student is interested in taking Summer School, they should let their Counselor know. Counselors will provide the students with the sign-up process for them to select their course of choice.

GLOBAL CAMPUS

Center Grove Global Campus (CGGC) is an online learning program available to all Center Grove High School students. Students may elect to take courses online to earn high school credit towards their diploma. Coursework is counted in the same manner as a traditional course. Students should consider online courses through Global Campus to advance in their studies and overcome schedule challenges. Global Campus courses can be scheduled for any period of the day. To enroll in a Global Campus course, students should speak with their counselor.

ALTERNATIVE EDUCATION

Center Grove Simon Youth Academy (CGSYA) program is designed for students who learn in a non-traditional school setting and need more self-paced, individualized instruction. The program will provide an intensive, student-centered, structured, personalized learning environment that facilitates emotional, social, and academic development. State-approved, online courses are facilitated by two licensed teachers. The length of a student's participation in the CGSYA program will be based on the student's Individual Service Plan and the number of credits needed to earn a diploma. Applications for CGSYA are reviewed monthly by a committee of counselors, administrators and the CGSYA coordinator.

EXCHANGE STUDENT INFORMATION

Center Grove High School accepts exchange students from other countries who are approved by placement agencies endorsed by the National Association of Secondary School Principals. The experience in American schools is viewed primarily as a cultural experience. All applications for eligible exchange students must be received by the high school administration no later than May 1. *Exchange students are not eligible for a high school diploma from Center Grove High School. Exchange students do not participate in Commencement.*

IHSAA INFORMATION

The [Indiana High School Athletic Association](#) establishes rules regarding athletes' eligibility to participate in interscholastic athletic events. Student-athletes are required to be scheduled into five (5) full credit courses to be eligible, as well as have passed five (5) full credit courses. **A student may not repeat (audit) a course for which they have previously earned credit and count it as one of the five classes for eligibility.** Incoming freshmen enrolled in five full-credit courses are automatically eligible until grades are issued at the end of the first nine weeks. Students or parents having questions on eligibility should contact Mr. Joseph Bronkella, Center Grove High School's Athletic Director. The IHSAA website is located at www.ihsaa.org.

NCAA/NAIA INFORMATION

Any student interested in competing in collegiate athletics should contact the Center Grove High School Athletic Department for information and requirements

For the most current, complete information, visit the NCAA website at www.eligibilitycenter.org or NAIA website at www.naia.org

COURSE INFORMATION

COURSE FEES

Students at Center Grove High School pay an annual book rental fee that will be based on the actual cost of the textbooks and course materials, according to a formula required by the Indiana State Board of Accounts. Since textbooks have a wide range of costs, some book fees will be high for particular courses. Course fees and rental charges will be on Skyward in September. Some courses also require supplementary fees for materials, especially in Art Engineering and Technology Education. Students should consider the expense of those elective courses before enrolling in them. These courses requiring additional fees are generally noted in the course descriptions.

Students enrolling in courses at Central Nine Career Center will have additional course fees, and these fees will not be shown on fee statements issued by Center Grove High School.

Students enrolling in courses for Dual Credit will have additional course fees, and these fees will not be shown on fee statements issued by Center Grove High School.

COURSE PREREQUISITES

Because of the nature of some courses, the completion of prerequisite classes may be required before students are allowed to enroll in the more advanced course. The staff has found successful completion of these earlier classes to be most important in satisfactorily completing later courses. These prerequisites are noted in the course descriptions.

HONOR COURSES

A student who has been recommended for an honors course should not be discouraged from taking the course because of the possibility that he/she might not earn an "A". College admission offices quite easily recognize students who accumulate an abundance of "A's" in non-weighted courses. Since honors classes are "weighted," they carry more numerical value in computing the student's GPA and class rank. Colleges and universities stress that honors classes are excellent preparation for students planning education beyond high school.

ADVANCED PLACEMENT COURSES

Through The College Board, students may earn Advanced Placement credit at the college or university of their choice by completing AP courses and taking the corresponding AP exam. Such testing is offered in Math, Science, English, Foreign Language, and Social Science departments. The AP test score necessary to award credit will vary among colleges and universities. Fee reductions for AP tests are available through the State of Indiana for students enrolled in Biology, Chemistry, English, Environmental Science, Physics, Statistics, and Calculus when students have completed approved AP-designated courses. Students will register during their Fall Semester. Students interested in this program should contact Mr. Paul Clodfelter at extension 4294 or the applicable department chair or student's counselor. Additional information is available from The College Board at <http://www.collegeboard.org/ap/students/>.

COURSE CREDIT INFORMATION

HIGH SCHOOL CREDITS

Provisions For Granting Credit Earned At Other Schools:

TRANSFER STUDENTS

Students who transfer from another school to attend Center Grove High School may transfer credits earned from the previous school if the previous school is an accredited state school, approved by the AdvancedED or one of the other regional accrediting agencies. Students who transfer from schools not accredited by the NCA or one of the regional accrediting agencies must:

- Submit detailed transcripts from the previous school,
- Submit detailed information about the previous school and its procedures for granting credit,
- Submit a detailed course curriculum for each course and artifacts of their work.

The decision by Center Grove High School to grant such transfer credit will be evaluated on a case-by-case basis. The school also may, at its discretion, require that the student pass a competency test in each subject area as part of the review of the credit transfer request.

COURSE REPEAT POLICY

Affording students an opportunity to retake a course has several benefits. First, students have another opportunity to improve their understanding of challenging content. Second, students can improve their achievement to meet post-secondary goals. Third, students have another chance to meet the eligibility requirements of the Academic Honors Diploma. Students who failed a required course for graduation must retake the course. Students may repeat a course where they have received a "D+, D, or D-" in order to earn a better grade. The following rules will apply:

1. When repeating a course already passed with a "D+, D, or D-," the second grade will appear (not replace the first grade) on the transcript and count toward the cumulative GPA and class rank. The first grade of "D+, D, or D-" is never removed from the transcript and always remains as a credit attempt and also figures into the cumulative GPA. Any student repeating a class must notify their counselor and complete a permission form before enrolling in the class. This course must be a Center Grove High School course.
2. When repeating a failed course, a passing grade in the repeated course will appear (not replace the first grade) on the transcript and count towards the cumulative GPA and class rank. The first grade of "F" is never removed from the transcript and always remains as a credit attempt and also figures into the cumulative GPA. This course can be a Center Grove High School course or other credit recovery option (i.e. summer school, on-line) accepted by the school. Guidance Counselors have information on possible options.
3. When repeating a course, a student may take a lower or higher level of that course (provided academic standards are the same for the two courses). For example, a student who earns a D+ in AP US History may opt to take US History for a higher grade.
4. During the regular school year, a retake may be denied if placing a student in a particular class for this purpose causes the class size to be excessive. The principal or designee will make the decision in such cases.

COURSE AUDITS

Assistant Principals/Counselors may approve auditing a course for which credit has already been earned. The course will be listed on the transcript a second time and it will include:

- "AUDIT" in the course credit
- The grade earned
- An indication that no credit has been earned

The first grade earned (non-audit) in the course will be the official grade and will be the only grade used in computing GPA and class rank. Audit courses do not count toward IHSAA eligibility. However, they can be used for NCAA eligibility.

POSTSECONDARY CREDIT POLICY

The Center Grove Community School Corporation has adopted a policy that allows qualifying high school students to apply for permission to take postsecondary courses at eligible Indiana institutions and receive credit towards high school graduation. Some key provisions are described below.

To qualify, students in grades 11-12 must have a cumulative grade point average of 3.0 at the time of application, or a waiver from the principal. Students in grades 9-10 must have a cumulative grade point average of 3.67 and four teachers' recommendations.

Courses taken must correspond to state-approved course titles and must be approved by the principal or his designee. Students and parents will be responsible for all costs related to the program, including, books, tuition, supplies, and transportation.

Grades reported by the institution will appear on the student's high school transcript. The amount of credit earned will be as follows: 1-2 college hours=1/2 high school credit; 3-4 college hours=1 high school credit; 5 college hours=2 high school credits.

Requests to take courses under this program must be submitted to the building principal for approval prior to enrollment at the institution.

GUIDELINES FOR OFF-SITE DUAL CREDIT ENROLLMENT

Students approved for dual credit enrollment will be given release time from classes at CGHS. The release time from CGHS is attached to the period of time the college class meets. During the school day (7:35 a.m. – 2:50 p.m.), the time of the college course must coordinate with CGHS's block schedule.

- If a student takes one college class during the school day, the student may be dismissed from 2 class blocks at CGHS (one per day). If a student takes two classes, the student may be dismissed for 4 periods (two per day). These blocks correspond to the time the college class meets.
- Night college classes are handled as follows:
 - 1 Late Afternoon/Night Class = Period 5 & 10 off or Period 1 & 6 off
 - 2 Late Afternoon/Night Classes = Period 1,2,6,7 off or Period 4,5, 9,10 off
- If the student drops the college class at any time during the semester, the student must return to CGHS. If the drop happens within the 1st three weeks of the CGHS semester, the student will take a credit course; otherwise, they must attend a class for non-credit. Students must notify the guidance counselor immediately if they drop a college class.
- Students must provide their guidance counselor with a copy of the mid-term grade.
- Students in athletics and other extra-curricular activities must check with their coach/adviser to determine if eligibility requirements are being met.
- CGHS-weighted credit will only be given to college courses corresponding to existing CGHS-weighted courses.

GRADING PROCEDURES

SCHOOL-WIDE GRADING SCALE

Our school-wide grading scale is used by teachers in computing the progress report, grading period, semester exam and final semester grade for each student. High school credits are awarded for passing grades earned at the end of each semester. Listed below are the ranges for each grade category:

Grade		Grade	
A	93-100	C	73-76
A-	90-92	C-	70-72
B+	87-89	D+	67-69
B	83-86	D	63-66
B-	80-82	D-	60-62
C+	77-79	F	00-59

GPA GRADE CALCULATION

REGULAR COURSES

The following chart illustrates the value given each grade in regular courses:

Grade	GPA Points	Grade	GPA Points
A	4.0	C	2.00
A-	3.67	C-	1.67

B+	3.33	D+	1.33
B	3.00	D	1.00
B-	2.67	D-	.67
C+	2.33	F	0

HONORS/WEIGHTED COURSES

Center Grove High School offers selected courses that require significantly higher academic achievement and work levels. These 'weighted' courses provide for the grades earned in that course to be weighted for purposes of determining GPA and class rank. Additionally, these courses are identified on transcripts with an "*" as part of their course title. These courses are identified in the course descriptions with the designation "(WEIGHTED)".

WEIGHTED SCALE

Grade	GPA Points	Grade	GPA Points
A	5.0	C	2.50
A-	4.59	C-	2.09
B+	4.16	D+	1.66
B	3.75	D	1.25
B-	3.34	D-	1.25
C+	2.91	F	0

SEMESTER GRADING CALCULATION

Semester Grades will be calculated based on 90% course grade and 10% final exam/project.

Mid-term grades, halfway through each semester, will be utilized for the purpose of determining eligibility, but the grading period does not end until the semester.

WITHDRAWAL

Students removed from a class due to attendance or discipline problems or withdrawing from school to pursue a GED or alternate education will receive a WD grade in the class at the time of their withdrawal. A student anticipating withdrawal from school should have a parent/guardian contact the Guidance Department at least one day before the final day of attendance. This allows time to notify teachers so they release current grades. Any obligations, including book rental and return of library books and textbooks, should be completed before an official transcript will be sent to the receiving school.

NATIONAL HONOR SOCIETY

The CGHS Chapter of the National Honor Society is open to sophomores, juniors, and seniors who are selected by the Faculty Council on the basis of scholarship, leadership, character, and service. While seniors will be members, students cannot be inducted as seniors.

The qualifications for induction into the Center Grove Chapter of the National Honor Society are as follows:

	Juniors
<p>SCHOLARSHIP</p> <p>College Prep Credits are those in English, Math, Social Studies, Science, & Foreign Language ONLY</p>	<p>GPA: unweighted GPA of 3.60 or above</p> <p>College Prep Credits: 23 by the end of your 5th-semester</p>
<p>LEADERSHIP</p> <p>Sponsors are responsible for assigning/verifying the number of points awarded according to CGHS NHS guidelines. See NHS application, the official NHS activity point guide, NHS brochure, or the NHS link on the CGHS website for details.</p>	<p>6 CGHS Activity Pts. by the end of your 5th semester</p> <p>*NOTE: Up to 2 points may be awarded from activities outside CGHS activities. 6 mos. participation is equal to ½ pt. 10 hours of community service is equal to ½ pt..</p> <p>Official verification letters are REQUIRED!</p>
<p>COMMUNITY SERVICE</p> <p>Service hours are to be unpaid, not for family members, volunteer/community organization work, and other volunteer services outside of the scope of the education and club/activity programs of CGHS. Service hours cannot include tutoring unless pre-approved by an adviser. See brochure for more guidelines. Official verification letters are required.</p>	<p>2 Official verification letters are REQUIRED!</p>
<p>CHARACTER</p> <p>Eligibility for selection and continued membership is based on compliance with civil or school regulations, including the Center Grove High School Drug, Alcohol, and Tobacco Policy. Discipline records for applicants will be examined and taken into consideration.</p> <p>Consideration is given to the qualities of honesty, reliability, integrity, cooperation, courtesy, determination, respect and concern for others.</p>	<p>3 CGHS teacher recommendations</p> <p>No disciplinary issues as verified by the Dean's office</p>

HIGH SCHOOL DIPLOMA INFORMATION

Center Grove High School awards a High School Diploma to every student who has earned the required 40 credits and met the graduation pathway requirements. Students who have earned the required 40 credits but have not completed a graduation pathway may be eligible for a waiver. The waiver committee will meet in the spring of the student's senior year. Diploma designations for Indiana Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors are also available.

CERTIFICATE OF COMPLETION

Center Grove High School awards a Certificate of Completion to special service students whose Individual Education Plan does not include earning a high school diploma but who have completed the plan set forth in that document.

GRADUATION REQUIREMENTS

Students who desire to graduate from Center Grove High School must be enrolled for eight semesters of full-time attendance. Summer school attendance does not constitute a semester of attendance.

Every graduating Indiana high school student must demonstrate mastery of the academic standards measured by the current state assessments as a requirement to receive a diploma. Students must take a Graduation Qualifying Exam (GQE) whenever the corresponding course is completed. Students must take the SAT as their Graduation Qualifying Exam in the Spring of their Junior Year. The college and career readiness scores for the SAT are: English 480 and Math 530. Students who do not pass the SAT may still be eligible for graduation if they qualify through graduation pathways or a waiver process.

DIPLOMA REQUIREMENTS (Click the picture to view a PDF version)



Effective beginning with students who enter high school in 2012-13 school year (class of 2016).

Course and Credit Requirements	
English/ Language Arts	8 credits Including a balance of literature, composition and speech.
Mathematics	6 credits (in grades 9-12) 2 credits: Algebra I 2 credits: Geometry 2 credits: Algebra II <small>Or complete Integrated Math I, II, and III for 6 credits. Students must take a math course or quantitative reasoning course each year in high school.</small>
Science	6 credits 2 credits: Biology I 2 credits: Chemistry I or Physics I or Integrated Chemistry-Physics 2 credits: any Core 40 science course
Social Studies	6 credits 2 credits: U.S. History 1 credit: U.S. Government 1 credit: Economics 2 credits: World History/Civilization or Geography/History of the World
Directed Electives	5 credits World Languages Fine Arts Career and Technical Education
Physical Education	2 credits
Health and Wellness	1 credit
Electives*	6 credits <small>(College and Career Pathway courses recommended)</small>
40 Total State Credits Required	

Schools may have additional local graduation requirements that apply to all students (not required for students with an IEP).

* Specifies the number of electives required by the state. High school schedules provide time for many more electives during the high school years. All students are strongly encouraged to complete a College and Career Pathway (selecting electives in a deliberate manner) to take full advantage of career and college exploration and preparation opportunities.

**SAT scores updated September, 2017

***WorkKeys assessment titles updated, 2018

CORE40 with Academic Honors (minimum 47 credits)

For the **Core 40 with Academic Honors** designation, students must:

- Complete all requirements for Core 40.
- Earn 2 additional Core 40 math credits.
- Earn 6-8 Core 40 world language credits (6 credits in one language or 4 credits each in two languages).
- Earn 2 Core 40 fine arts credits.
- Earn a grade of a "C" or better in courses that will count toward the diploma.
- Have a grade point average of a "B" or better.
- Complete one of the following:
 - A. Earn 4 credits in 2 or more AP courses and take corresponding AP exams
 - B. Earn 6 verifiable transcribed college credits in dual credit courses from the approved dual credit list.
 - C. Earn two of the following:
 1. A minimum of 3 verifiable transcribed college credits from the approved dual credit list,
 2. 2 credits in AP courses and corresponding AP exams,
 3. 2 credits in IB standard level courses and corresponding IB exams.
 - D. Earn a composite score of 1250 or higher on the SAT and a minimum of 560 on math and 590 on the evidence based reading and writing section.**
 - E. Earn an ACT composite score of 26 or higher and complete written section
 - F. Earn 4 credits in IB courses and take corresponding IB exams.

CORE40 with Technical Honors (minimum 47 credits)

For the **Core 40 with Technical Honors** designation, students must:

- Complete all requirements for Core 40.
- Earn 6 credits in the college and career preparation courses in a state-approved College & Career Pathway and one of the following:
 1. Pathway designated industry-based certification or credential, or
 2. Pathway dual credits from the approved dual credit list resulting in 6 transcribed college credits
- Earn a grade of "C" or better in courses that will count toward the diploma.
- Have a grade point average of a "B" or better.
- Complete one of the following,
 - A. Any one of the options (A - F) of the Core 40 with Academic Honors
 - B. Earn the following minimum scores on WorkKeys: Workplace Documents, Level 6; Applied Math, Level 6; and Graphic Literacy, Level 5.***
 - C. Earn the following minimum score(s) on Accuplacer: Writing 80, Reading 90, Math 75.
 - D. Earn the following minimum score(s) on Compass: Algebra 66, Writing 70, Reading 80.

OPT-OUT PROCESS FOR INDIANA'S GRADUATION REQUIREMENTS

Indiana Code 20-32-4-7,8, 9, 10

The completion of Core 40 is an Indiana graduation requirement. Indiana's Core 40 curriculum provides the academic foundation all students need to succeed in college and the workforce.

To graduate with less than Core 40, the following formal opt-out process must be completed:

- The student, the student's parent/guardian, and the student's counselor (or another staff member who assists students in course selection) meet to discuss the student's progress.
- The student's career and course plan is reviewed.
- The student's parent/guardian determines whether the student will achieve greater educational benefits by completing the general curriculum or the Core 40 curriculum.

If the decision is made to opt-out of Core 40, the student is required to complete the course and credit requirements for a general diploma and the career/academic sequence the student will pursue is determined.

NEW GRADUATION REQUIREMENT & PATHWAYS (Click the picture to view a PDF version)

The path to graduation is not one-size-fits-all. Indiana provides many pathways for students to earn a high school diploma.

OVERVIEW

Students starting with the Class of 2023 must meet all of the following:

- 1 Credits**
- 2 Learn & Demonstrate Employability Skills**
- 3 Postsecondary-Ready Competencies**

DIPLOMA REQUIREMENTS

- 1 Credits**
Earn credits toward a diploma with designation.
 - Core 40 - minimum 40 credits
 - Academic Honors - minimum 47 credits
 - Technical Honors - minimum 47 credits
 - General
- 2 Learn & Demonstrate Employability Skills**
Produce defined outcome(s) based on experience.
Defined Outcome Options
 - Videos
 - Papers
 - Resume
 - Dual Credit
 - Certifications
 - Portfolio
 - Projects
 - Slideshows
 - Presentation
 - Five Year Goal Plan
 - Reflection of Experience
 - Letters of Recommendation
 - Letter of Employment Verification
 - Postsecondary-related Experiences
 - Co-Curricular Participation
 - Extra-Curricular Participation
 - Locally Defined Outcome
- 3 Postsecondary-Ready Competencies**
Meet at least one of these competencies.
 - **Honors Diploma**
academic or technical
 - **SAT**
reading/writing = 480, math = 530
 - **ACT**
english = 18, reading = 22, math = 22, science = 23 (2 out of 4 needed with at least one in English/Reading and one in Math/Science)
 - **ASVAB**
minimum of 31
 - **Industry Certification**
certification from approved DWD list
 - **Apprenticeship**
federally recognized
 - **CTE Concentrator**
C average or higher in at least 2 advanced HS courses in a state-approved CTE Pathway
 - **AP/IB/Dual Credit/Cambridge International/CLEP**
C average or higher in 3 courses (1 of the 3 courses must be in core content area or all three must be part of a CTE pathway)
 - **Locally Created Pathway**
approved by SBOE
 - **Waiver**
see listed web link

TRACKING

- 1 Transcript with Completed Courses**
Project-Based Experience
Allows students to gain knowledge and skills by working for an extended period of time to investigate and respond to an authentic, engaging, and complex question.
- 2 Work Toward Completion of One of the Experiences Below**
 - Service-Based Experience
Integrates academic study with service experience, reflects larger social, economic, and societal issues, and collaborative efforts between students, schools, and community partners.
 - Work-Based Experience
Activities that occur in a workplace while developing the student's skills, knowledge, and readiness for work.
- 3 Course Selection, Graduation Plan, & Testing Opportunities**

Please Visit: <https://www.in.gov/doe/students/graduation-pathways/>
Questions: DOEGradpathway@doe.in.gov

For specific information regarding the completion of a pathway, please see your school counselor.

CORE 40 TRIGGERS

The following conditions may trigger a discussion about opting-out of Core 40:

1. A parent may request that a student be exempted from the Core 40 curriculum and be required to complete the general diploma to graduate
2. The student does not pass at least three (3) courses required under the Core 40 curriculum,
3. The student receives a score on the graduation examination that is in the twenty-fifth percentile or lower when the student takes the graduation examination for the first time.

In each case, the student's parent and the student's counselor (or another staff member who assists students in course selection) shall meet to discuss the student's progress. Following the meeting, the student's parent shall determine whether the student will achieve greater educational benefits by:

1. Continuing the general curriculum; or
2. Completing the Core 40 curriculum.

GRADUATION & COLLEGE ENTRANCE INFORMATION

SIX SEMESTER WAIVER

The [Indiana Code](#) provides for a waiver to allow graduation after the sixth semester of attendance. 511 IAC 6-7-4 specifies:

Sec. 4 (a) To be graduated from a high school, a pupil shall attend at least seven (7) semesters in Grades 9-12.

Sec. 4 (b) The state board shall waive the seven (7) semester requirement if:

1. Failure to waive the requirement would effectively prevent the student from graduating from high school; or
2. The student's school supports the waiver, the student likely would have qualified for a gifted and talented education program waiver had it been available; and
3. The waiver is for the purpose of enrolling in an accredited post-secondary educational institution, and the student has been accepted for enrollment; or
4. The waiver is for the purpose of furthering the student's education through military enlistment and that the student has an enlistment contract that contains the educational component.

Students requesting a waiver of the 7 semester requirement described above must: (1) submit a written request for approval by May 1 of their Sophomore year; (2) demonstrate need based on the criteria listed above; (3) demonstrate that they can meet all graduation requirements for their current designated class [Sophomore] by the end of summer school the following academic year.

SEVENTH SEMESTER GRADUATION

Students who wish to graduate after the 7th semester of attendance at Center Grove High School must:

1. Discuss with their counselor during their junior scheduling meeting.
2. Have completed at the minimum all graduation requirements for the Core 40 Diploma at the conclusion of the 7th semester of attendance, including credits, participated in SAT testing and have completed pathway requirements. Transfer credits from accredited and approved night schools or correspondence courses completed after the start of the eighth semester will not meet full completion requirements.

A student who does not meet all requirements, as listed above, must have a full schedule of classes for the spring semester of the senior year.

COMMENCEMENT CEREMONY PARTICIPATION

In order to participate in commencement ceremonies, a Center Grove High School student must be in good standing and have fulfilled all requirements to earn a high school diploma, a certificate of completion, or a certificate of course completion. Commencement practices are mandatory; students who do not attend these rehearsals will not be allowed to participate in the commencement ceremony. A student under suspension, expulsion, or exclusion at the time of graduation may not participate in commencement ceremonies.

COLLEGE ENTRANCE PREPARATION

One of the major concerns of students and parents during the scheduling process in high school is to ensure that the coursework taken during this critical time will be sufficient to gain entry into the college or university of the student's choice. Students and parents are strongly urged to discuss several possible college choices during their freshmen and sophomore years and contact these institutions for their specific requirements. Such information will be invaluable in planning schedules. Students and parents should not feel that such choices must be finalized at such an early date; however, providing flexibility for later years is a desirable objective.

COLLEGE APPLICATION

While most students apply for college acceptance during the early fall of their senior year, students interested in highly competitive areas of study such as nursing, engineering, etc., should investigate the application process for these programs at the school(s) of their choice during the early part of the junior year. This also requires that juniors should take either the SAT or the ACT in the spring of their junior year. Such planning allows for early application to colleges and also allows students to retake the exam to possibly increase their scores and thereby improve their chances of acceptance into highly selective college programs.

COLLEGE ENTRANCE EXAMINATIONS

College-bound students should be aware that colleges and universities may require their applicants to have taken either the SAT or the ACT. It is the student's responsibility to research such requirements for any school they are considering and plan accordingly. It is recommended that students take the SAT and/or ACT more than once. Dates for the SAT and/or ACT are available at nearby high schools and colleges. SAT dates can be found [HERE](#). ACT dates can be found [HERE](#).

PSAT

ALL SOPHOMORES & JUNIORS WILL TAKE THE PSAT EXAM. This test provides important practice for the SAT. An additional consideration in taking the test is that it is the first step in the National Merit Scholarship competition. The test will be administered at Center Grove High School in October of each year. The website for more information is www.collegeboard.org/psat/student/html/indx001.html.

EARLY COLLEGE

The mission of the Early College at Center Grove (the EC@CG) is to accelerate college readiness, success, and completion through challenging college-credit coursework in a personalized environment with a network of staff, family, and community support. Early College promotes and assists students in gaining college credit by the end of high school and provides a seamless transition from high school to college. EC students will be able to earn either an Associate of Arts degree in General Studies. (60 college credits) or the Indiana College Core (30 college credits). Vincennes University is the higher education partner for EC@CG. Early College provides a relevant, rigorous, and cross-curricular program for students in a personalized environment and prepares students to think critically, communicate clearly, learn independently, and work collaboratively.

INDIANA COLLEGE CORE

In 2012 the Indiana legislature enacted Senate Enrolled Act 182, thereby establishing the requirements for an Indiana College Core of at least 30 credit hours. The statute states that the Core must be based upon a set of competencies in areas agreed upon by the state educational institutions.

A Statewide Leadership Team was created to develop a framework for the Indiana College Core, and to provide oversight of the implementation process. The Statewide Leadership Team agreed upon six competencies, for which student learning outcomes would be developed. Faculty representatives from each institution met to agree upon the learning outcomes for each competency.

Each state educational institution is required to offer a general education program of at least 30 credit hours, which addresses these statewide competencies and the associated learning outcomes.

After May 15, 2013, a student who satisfactorily completes the requirements of the Indiana College Core in an Indiana state educational institution and then subsequently transfers to another Indiana state educational institution will not be required to complete the Indiana College Core requirements at the institution to which the student transfers. The established framework for the Statewide Transfer General Education Core includes two categories: “Foundational Intellectual Skills” and “Ways of Knowing.” Each category includes three competency areas.

The Foundational Intellectual Skills category includes:

- Written Communication
- Speaking and Listening
- Quantitative Reasoning

The second category, Ways of Knowing, comprises learning outcomes in broad, disciplinary areas, and includes:

- Scientific Ways of Knowing
- Humanistic and Artistic Ways of Knowing
- Social and Behavioral Ways of Knowing

Learning outcomes that relate to historical ways of knowing to appear in both the Humanistic and Artistic, and the Social and Behavioral Ways of Knowing.

CGHS STATEWIDE TRANSFER GENERAL EDUCATION CORE PROGRAM

”A BLENDED APPROACH”

Through our strong partnership with Vincennes University, a national leader in academic transfer programs, we are able to offer the thirty hours (10 classes) needed to satisfy the general education requirements for the first year of college at ALL state universities in Indiana. Six of these 10 classes must be taken through Vincennes University. The cost is between \$25-75 per credit hour. For a complete chart of the classes needed to complete the ICC or Associates Degree through our Early College program, please visit this [link](#).

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- The thirty credit hours required for this certificate consists of credits from VU and other transcripted dual credits or AP dual credits. If you are counting on taking AP credits your senior year, please know your scores will not be available until July. Additionally, you must receive a 3 or higher on the AP Exam in order to receive dual credit. VU will work with you over the summer if you contact them to have these grades placed on your VU transcript. You will not receive the certificate until all AP scores are received by Vincennes.
 - Students who complete this course will receive a certificate from Vincennes University, and their VU transcript will be stamped “ICC completed”.
 - Listed below are classes that must be taken to complete the certificate as well as options for AP and ACP classes that can be combined with the VU classes. The following VU classes must be taken and a grade no lower than a “C” must be earned:
 - Speech 143
 - ENGL 102 – Advanced Research
 - A fine arts class – either Art Appreciation (ARTT 110) or Theatre Appreciation (THEA 100)
 - SPAN 101 (H.S. Spanish Level 2)
 - SPAN 103 (H.S. Spanish Level 3)

- POLS 111 (HS Govt) or LITR 221, college World Literature
 - *If the student does not take SPAN 101 or 103, then he/she must take POLS 111 and LITR 221 or LITR 100 (Introduction to Literature) in addition to everything listed above.
 - Students must receive qualifying scores on the Accuplacer Placement given by the VU College Coordinator, located in RM 152 in the Early College area.
- ACP W131 (Freshman Composition) must be taken for the blended ICC.
- The following AP/ACP courses could be taken as the additional three classes required for the ICC:
 - ACP Calculus, ACP Finite Math, AP Calculus, ACP Literature 202, ACP/AP Chemistry 105, ACP/AP Chemistry 101, ACP Biology 100
- The Blended ICC is not for seventh-semester graduates.
- All of these courses from VU and IU are on the Indiana Core Transfer Library, www.transferin.net.

TO APPLY FOR THE BLENDED ICC, PLEASE COMPLETE THE ONLINE APPLICATION FOUND ON THE GUIDANCE WEBPAGE. THE DEADLINE TO APPLY IS JAN 31ST.

INDIANA COLLEGE CORE

1. Established in 2012 as SEA 182
2. The ICC is a collection of courses that are based upon a set of competencies in the areas of Foundational Intellectual Skills and Ways of Knowing. For additional information visit http://www.in.gov/che/files/STGEC_BW_Binder_Final_5.19.15.pdf.
3. Must be at least 30 credit hours and reflected on the student's transcript.
4. A minimum cumulative GPA of 2.0 for the 30 hours is considered satisfactory completion.
5. Students may exceed 60 credit hours (for an associate degree) or 120 credit hours (for a baccalaureate degree) required for a specific degree program (i.e. engineering, nursing, etc.)
6. If any course within the ICC is a requirement for a major or other degree objectives at the receiving institution, and the student does not meet the grade requirement for that objective, then the receiving institution may require the student to repeat the course.
7. A student who satisfactorily completes the requirements of the ICC in an Indiana state education institution and then transfers to another Indiana state educational institution will not be required to retake core courses as they transfer as a block.
8. ALL state educational institutions must accept the ICC using the above guidelines.
9. Successful completion of the ICC is not a guarantee of admission to a particular state educational institution or educational program within that state educational institution.
10. If a student transfers before completing the ICC, coursework will be articulated on a course-by-course basis by the institution to which they are transferring.
11. You can find a list of courses that meet the ICC at state educational institutions at http://www.in.gov/che/files/STGEC_BW_Binder_Final_5.19.15.pdf or on the back of this sheet.
12. Contact Academic Affairs at Academics@che.in.gov if you have questions or need additional assistance.

COLLEGE & UNIVERSITY LINKS TO ICC INFORMATION

Ball State University http://cms.bsu.edu/academics/advising/academicbasics/corecurriculum	Indiana University South Bend https://www.iusb.edu/general-educ/STGEC_and_IUSB.doc.php
Indiana State University https://cms.indstate.edu/academics/fs	Indiana University Southeast https://www.ius.edu/general-education/course-list/index.php
Indiana University Bloomington http://gened.indiana.edu/Students/STGEC.htm	Ivy Tech Community College http://www.ivytech.edu/core/
Indiana University East http://www.iue.edu/catalog/policies/documents/gened-requirements2015.pdf	Purdue University Calumet http://webapp.purduecal.edu/facultysenate/general-education-course-list/
Indiana University Kokomo http://www.iuk.edu/academic-affairs/resources/general-education-resources.php#	Purdue University North Central http://www.pnc.edu/academics/ge/statewide-transfer-general-education-core/
Indiana University Northwest http://www.iun.edu/general-education/docs/IUN%20STGEC%20Approved%20Mapping.pdf	Purdue University West Lafayette http://www.purdue.edu/provost/initiatives/curriculum/course.html
Indiana University Purdue University Fort Wayne http://bulletin.ipfw.edu/content.php?catoid=38&navoid=1014	University of Southern Indiana http://www.usi.edu/registrar/transfer-credit/transfer-credit-evaluation
Indiana University Purdue University Indianapolis http://due.iupui.edu/Undergraduate-Curricula/General-Education/IUPUI-General-Education-Core	Vincennes University http://catalog.vinu.edu/preview_program.php?catoid=23&poid=15461&returnto=1929

ART COURSE DESCRIPTION

Department Chair: Jackie Fowler, fowlerj@centergrove.k12.in.us

Introduction to Two-Dimensional Art (4000)

CGHS Course #: AR101

Weighted course: No

Grade level: 9,10,11,12

Length: 1 semester

Credit(s): One

Prerequisite(s): none

The Intro to 2D Art course is an exploratory hands-on art course that provides students with a diverse range of art experiences with art mediums such as graphite, pen & ink, color pencil and oil pastels. The Elements and Principles of Design are explored in depth, giving students a good art vocabulary. This is an ideal course for students of all skill levels and it provides a good platform for preparing students for further studies in art. Students will gain experience with

a variety of 2-D media and explore topics such as art history, criticism, aesthetics and design.



Advanced Two-Dimensional Art (4004)

(Introduction to Two-Dimensional Art Two)

CGHS Course #: AR102

Grade level: 9,10,11,12

Length: 1 Semester

Credit(s): One

Prerequisite(s): Introduction to Two-Dimensional Art

In Advanced Two-Dimensional Art, students will build upon the skills and knowledge that they have gained in Intro to 2D Art by exploring additional art mediums such as printmaking, painting and mixed media. The students will continue to become familiar with art concepts, historical art, artists and the Artist Critique Process. This class is a continuation of the Introduction to 2-D Art class and continues to provide a solid foundation for furthering their education in the Arts.



Drawing 1 (4060)

CGHS Course #: AR211

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No

Prerequisite(s): Intro to Two Dimensional Art or Middle School Art Teacher recommendation for incoming freshmen

Drawing 1 focuses on how to improve each student's ability to accurately draw from life and effectively use drawing media. Students will explore how to see and apply proportion, detail, and value with foundational drawing techniques to create drawings that are realistic representations of what they see. First semester, students use graphite and charcoal with the portrait as the primary visual subject. Second semester the students will use their improved drawing skills to create images that emphasize creativity, style, expression, and composition. Second semester also introduces a variety of drawing mediums such as pen and ink, colored pencil, and pastels. Drawings will be both in and out of class.



Ceramics (4004)

CGHS Course #: AR241

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: N/A

Weighted Course: No

Prerequisite(s): Introduction to 2D Art/ Advanced 2D Art

Ceramics teaches students to engage in sequential learning experiences of clay hand building techniques such as pinch construction, coil construction, slab construction, and sculpture in order to produce a portfolio of high quality ceramic artworks. Students are also introduced to throwing on the pottery wheel in this course, and should leave with the understanding of how to throw cups, bowls, plates, and platters. Ceramics is a hands on physical course that is dirty but yet rewarding. During the production of works in this course, basic slip, glaze, and firing techniques will be explored.



Photography (4062)

CGHS Course #: AR251

Grade Level: 10, 11, 12

Length of Course: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: no

Prerequisite(s): None

Photography is a beginning level, darkroom photography course. Students will be taught the proper use of their camera, developing their own film, and how to produce quality black & white photos. Some assignments will require the students to take photos as homework and may involve a fair amount of time to complete outside of the classroom. Additional fees for photo paper and film will be required to complete assignments. Students must furnish their own single lens reflex 35 mm film camera with manual capabilities. A built in flash or an attachable flash is also required. Fully automatic cameras are not permitted because they do not allow the student the flexibility to

create photographs required in many of the assignments. (Please check with the photography teacher if you have questions.)



Fiber Arts (4046)

CGHS Course #: AR261

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): None, but Intro to Two Dimensional Art is encouraged

This Fiber course will allow students to explore Fibers as an art form. Students will explore how to create designs for each art medium. Some of the art experiences will be Batik, Silk painting, Embroidery, Felt-piecing, Basketry, Weaving, Quilting and tie-dying. Students will explore the Elements and Principles of Art, which are the basis and foundation for all art. They will become familiar with the planning and art making process of each medium. Students will be introduced to new artists within each medium and become familiar with the Artist Critique Process. Students will be asked to provide some of their materials.



Drawing 2 and Painting (4060/4064)

CGHS Course #: AR311

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Drawing 1

Drawing 2 and Painting Expands on drawing skills from Drawing 1 and introduces a variety of painting mediums. This course emphasizes composition and creativity. Students master skills of life drawing, utilizing the human figure as the subject. Students learn how to see and apply colors to create drawings and paintings that depict their subject with vivid and realistic colors. Students learn and experiment with a wide range of painting techniques; specifically using

watercolor and oil paint. Paintings will be in class, while many drawings will be out of class.

Visual Communications (4086)

CGHS Course #: AR331

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual credit: No

Prerequisite(s): None, but Intro to 2D Art is suggested

The emphasis of Visual Communications is creative problem solving. Students will use Adobe Photoshop and Illustrator to communicate artistically and effectively. The course is divided into two sections. Students begin by reviewing the Elements and Principles of Art through specific product designs. Students will design products like event invitations, t-shirts, concert merchandise, restaurant logos and menus, and sneakers; however, these projects are subject to change. The second half of the course focuses on photo editing and digital drawing. Throughout this course, students will learn how they can apply their artistic abilities in future careers. Visual Communications is a yearlong course that is mandatory for all students planning to major in art in college.



Visual Communications 2 (4086)

CGHS Course #: AR431

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Visual Communications

The emphasis of Visual Communications 2 is to build upon the foundation of skills that were mastered in Visual Communications 1. This course emphasizes visual creative problem solving. Photoshop and Illustrator software is the primary software tool that students use to create art. Wacom graphics tablets are also utilized. Graphic design projects such as logos, CD covers, brochure covers, event designs, and poster designs continue to be explored. Animation will also be explored within this course. Visual Communications 2 will afford more advanced design problems like company brand portfolios and animated gifs. Other major areas of study include: the history of graphic design, evaluating the design process, overall review of the industry of graphic design and possible career paths, the importance of design in the age of social media, "on-the-job" experiences, design terminology, and the evolution of

custom illustrations and digital painting. These topics will be explored through project-based learning. Students will dive into these topics by creating original designs, illustrations, gifs, and digital paintings. Students will leave this class with a college-ready design portfolio. Visual Communications 2 is a yearlong course that is mandatory for all students planning on majoring in art in college.



Ceramics (Advanced) (4040)

CGHS Course #: AR341

Grade Level: 11, 12

Length of Course: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Ceramics and teacher approval

Advanced Ceramics students will move towards mastery of both hand building and throwing techniques. Intermediate and advanced pottery wheel techniques will be explored through the production of forms such as vases, bottles, hollow rings, and multiple section thrown forms. Functional stoneware pottery will be stressed as students' increase scale, intricacy, and consistency in the production of their works. Non-functional works will also be produced, especially in exploration of sculpture and the production of a bust. New clays as well as more demanding firing and glazing techniques will be explored. Students must be able to work independently, including the ability to explore and expand upon previously learned content through individual research. Students must be able to throw a 6-inch cylinder and have some basic sculptural skills. Ceramics Advanced students would be mature, driven, and dedicated to work to better themselves every day in class through constant practice and product development.



Photography (Advanced) (4062)

CGHS Course #: AR351

Grade Level: 11, 12

Length of Course: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Photography

The emphasis of Advanced Photography is for students to produce a portfolio that will exhibit their talents in photography. Students will experience a variety of professional level artistic methods of producing photographs. Portfolios will be of great importance to the students as they interview with prospective colleges, photography schools, and employers. Students considering taking Advanced Photography should realize that they need ample time after school and weekends to photograph their assignments. They will also have assignments to photograph over the summer before school starts in the fall. This course is for the students who are serious about photography. In addition, students will be required to purchase their own film and photo paper.



Fiber Arts (Advanced) (4046)

CGHS Course #: AR361

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Fiber Arts

In Advanced Fibers students will combine techniques/mediums that they learned in taking Fiber Arts. New fiber art processes to produce sophisticated works of art will be introduced. Students will provide some of their own materials. They will produce projects such as modern batiks, wall hangings, quilts, handmade paper and tie dying. Students will also explore and learn to critique a variety of contemporary fiber artists.



Drawing (Advanced) / Painting (Advanced) (4060/4064)

CGHS Course #: AR411

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual credit: No

Prerequisite(s): Drawing (Responsive)

Painting Advanced Drawing/ Advanced Painting will prepare students who want to pursue a degree in the arts. Students will produce a portfolio of work ready for college review and submission. Students will continue their drawing and painting skills with a variety of mediums such as: colored pencil, charcoal, conte, oil paint and pastels. Students will work from live models, still life, and composite imagery. This is an excellent precursor to AP Studio Art.

AP Studio Art (2D Design) (4050)

CGHS Course #: AR493

Grade Level: 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Photography Advanced/teacher recommendation

The AP Studio 2D Design course is intended to address a broad interpretation of two-dimensional design issues. Any photography student interested in earning AP credit should sign up for this course. Design involves purposeful decision-making about how to use the elements and principles of art in an integrative way. Students are expected to create a portfolio that demonstrates proficiency in 2-D design in photography. A variety of approaches to representation, abstraction, and expression may be part of the student's portfolio. Portfolios will be submitted to Advanced Placement for judging. Students will provide some of their own materials.

AP Studio Art (3-D Design) (4052)

CGHS Course #: AR495

Grade Level: 12

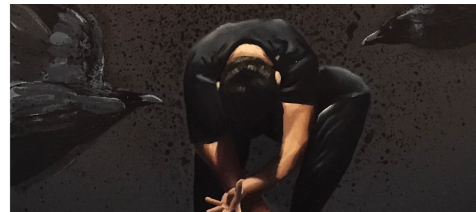
Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Ceramics (Advanced)

AP Studio Art 3-D Design is a portfolio course for Advanced Placement credit that is intended to address a broad interpretation of three dimensional challenges primarily in ceramics. Design involves purposeful decision making about how to use the elements and principles of art in an integrated way. A variety of approaches to representation, abstraction, and expression may be part of the students' portfolio.



AP Studio Art (Drawing/Painting) (4048)

CGHS Course #: AR497

Grade Level: 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual: No

Prerequisite(s): Responsive Drawing/Painting and teacher recommendation

AP Drawing/Painting Portfolio is designed to address a very broad interpretation of drawing content and media. Light and shade, line quality, rendering of form, composition, surface manipulation, and illusion of depth are some of the drawing challenges that may be addressed through a variety of means. Many works of painting, printmaking, and mixed media, as well as abstract, observational, and inventive works may qualify. Students will be expected to create a concentration of art, which primarily will be created out of class, which will be submitted for Advanced Placement judging. Students will provide some of their own materials.

AP Art History

CGHS Course #: AR502

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): none

The AP Art History course explores such topics as the nature of art, its uses, its meanings, art making, and responses to art. Through investigation of diverse artistic traditions of cultures from prehistory to the present, the course fosters in-depth and holistic understanding of the history of art from a global perspective. Students learn and apply skills of visual, contextual, and comparative analysis to engage with a variety of art forms constructing understanding of individual works and interconnections of art-making processes and products throughout history. Students will experience, research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art.

BUSINESS & COMPUTER SCIENCE DESCRIPTIONS

Department Chairs: Chad Daniels, danielsd@centergrove.k12.in.us & Summer Ehresman, ehresmans@centergrove.k12.in.us



Courses in the Business area of study apply to every student at Center Grove High School. No matter the career choice, students will be involved in the world of business. In addition, there are many opportunities to explore the world of information technology through the computer science courses offered at Center Grove High School. All of the computer science courses are eligible for college credit.

<p>Class of 2023 students must meet the following requirements:</p> <ol style="list-style-type: none"> 1. Earn their credits for their diploma 2. Learn and Demonstrate Employability Skills 3. Demonstrate Postsecondary-Ready Competencies by one of the following: <ul style="list-style-type: none"> • Honors Diploma • SAT Score • ACT Score • ASVAB Score • Industry Certification • Apprenticeship • CTE Concentrator (C Average or Higher in at least 2 • AP or Dual Credit (C average or higher in 3 courses - 1 of the 3 must be in a core content area or all 3 must be part of a CTE pathway) 	<p>In the Business Department we have 3 pathways currently to help students meet the CTE Concentrator Goal:</p> <ul style="list-style-type: none"> • <u>Marketing</u>: Principles of Business Management, Principles of Marketing, Strategic Marketing • <u>Accounting</u>: Principles of Business Management, Accounting Fundamentals, Advanced Accounting • <u>Computer Science</u>: Principles of Computing, Website and Database Development <p>In the Business Department we have these current dual credit and AP Courses:</p> <ul style="list-style-type: none"> • Principles of Business Management (Ivy Tech Dual Credit) • Advanced Business, College Credit ACCT 100 (Vincennes Dual Credit) • Advanced Business: Financial Accounting 210 (UIndy Dual Credit) • Strategic Marketing (5918) - Sports and Entertainment Marketing (Ivy Tech Dual Credit) • Advanced Business: College Credit: VU MGMT 100 (Vincennes Dual Credit) • Principles of Business Management: VU MGMT 250 (Vincennes Dual Credit) • Advanced Business: College Credit: ECON 208 (Vincennes Dual Credit) • Advanced Business: College Credit - International Business & Finance (6142) (UIndy Dual Credit) • HTML/Website and Database Development (Vincennes Dual Credit) • Website and Database Development (Ivy Tech Dual Credit) • Computer Science Principles, AP/ACP/PLTW (IU Dual Credit and AP) • Principles of Computing (Ivy Tech Dual Credit) • Computer Science A, AP (AP) • ACP / PLTW Cybersecurity: Computer Science III (IU Dual Credit)
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Principles of Business Management (4562)

CGHS Course #: BU121

Grade Level: 9, 10, 11

Length: Year Long

Credit(s): Two

Weighted Course: No

Dual Credit: Yes

Prerequisite(s): None



Principles of Business Management examines business ownership, organization principles and problems, management, control facilities, administration, financial management, and development practices of business enterprises. This course will also emphasize the identification and practice of the appropriate use of technology to communicate and solve business problems and aid in decision making. Attention will be given to developing business communication, problem-solving, and decision making skills using spreadsheets, word processing, data management, and presentation software. One semester will be devoted to

understanding the foundations of business, while one semester will be focused on computer skills needed for business.

Personal Financial Responsibility (4540)

CGHS Course #: BU161

Grade Level: 9, 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No

Prerequisite(s): None



Who wants to be a MILLIONAIRE? You can be by taking Personal Finance! From basic banking skills like writing a check and balancing your checkbook to building an investment portfolio that will make you a MULTI-MILLIONAIRE, this class teaches you money strategies that you will use the rest of your life to be financially



secure. You will discover the importance of saving, learn the power of compound interest, create a budget that works for you, understand credit and how to manage it, explore insurance policies that protect your assets, and become comfortable with investment opportunities that will allow you to build wealth and retire debt-free. If it all sounds too good to be true, come experience it for yourself. You CAN become a self-made MILLIONAIRE! Counts as quantitative reasoning credit.

Personal Financial Responsibility- Global Campus (4540)

CGHS Course #: BU161G

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No

Prerequisite(s): None

Who wants to be a MILLIONAIRE? You can be by taking Personal Finance! From basic banking skills like writing a check and balancing your checkbook to building an investment portfolio that will make you a MULTI-MILLIONAIRE, this class teaches you money strategies that you will use the rest of your life to be financially secure. You will discover the importance of saving, learn the power of compound interest, create a budget that works for you, understand credit and how to manage it, explore insurance policies that protect your assets, and become comfortable with investment opportunities that will allow you to build wealth and retire debt-free. If it all sounds too good to be true, come experience it for yourself. You CAN become a self-made MILLIONAIRE! Counts as quantitative reasoning credit.

Introduction to Entrepreneurship (5967)

CGHS Course #: BU141

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No

Prerequisite(s): Recommended to take Intro to Business before this class.

Want to be your own boss and make your own decisions? Whether a student becomes an entrepreneur or not, this course will provide them with a flexible background that will enable them to make required career shifts and meet the demands of a constantly changing marketplace. In this course students will study the characteristics of successful entrepreneurs. They will also learn about self-employment and basic economic concepts related to small businesses, such as: competition, management, and finances. This course will also provide opportunities for students to set up a business, including developing a business plan, a mission and a vision, attracting investors, and marketing their company for growth and success.

Accounting Fundamentals (4524)

CGHS Course #: BU211

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two



Weighted Course: No Dual credit: No

Prerequisite(s): Principles of Business Management (for class of 2025). Course can be taken concurrently with Principles of Business Management.

Students completing accounting will have a broad basic background in accounting principles, skills, procedures, and concepts. The study will also include day-to-day accounting tasks such as analyzing and recording financial information. Course will also provide a basic background for continuing accounting study in Financial Accounting. Study progresses from the complete accounting cycle for a sole proprietorship to the accounting cycle for a partnership to the accounting style for a corporation. Students will use computer assisted instruction projects to become familiar with the equipment and to enhance textbook learning. The students will complete a business simulation for application of skills learned.

Advanced Accounting (4522)

CGHS Course #: BU321

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Accounting Fundamentals

This course will build a solid foundation of basic accounting concepts and principles. The course will provide a fresh new perspective on a rapidly changing accounting environment. References from well-known business periodicals will provide real-world information relevant to any topic being covered. Questions and examples will provide the student with ethical dilemmas he/she will be faced with in today's business environment. The computer will be used extensively to provide the student with essential technology skills needed in the accounting and business environment. Counts as quantitative reasoning credit.

Advanced Business, College Credit ACCT 100 - Basic College Accounting (6142)

CGHS Course #: BU211E

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None



A (3 Credit) dual-credit transferable IN course through Vincennes University. Students completing accounting will have a broad basic background in accounting principles, skills, procedures, and concepts. The study will also include day-to-day accounting tasks such as analyzing and recording financial information. Course will also provide a basic background for continuing accounting study in Financial Accounting. Study progresses from the complete accounting cycle for a sole proprietorship to the accounting cycle for a partnership to the accounting style for a corporation. Students will use computer assisted instruction projects to become familiar with the equipment and to enhance textbook learning. The students will complete a business simulation for application of skills learned. The university charges a fee for dual credit. VU tuition charges apply.

Advanced Business: Financial Accounting 210 (ACC-210) (6142)

CGHS Course #: BU411

Grade Level: 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): None



A (3 Credit) dual-credit transferable IN course through University of Indianapolis. This course will build a solid foundation of basic accounting concepts and principles. The course will provide a fresh new perspective on a rapidly changing accounting environment. References from well-known business periodicals will provide real-world information relevant to any topic being covered. Questions and examples will provide the student with ethical dilemmas he/she will be faced with in today's business environment. The computer will be used extensively to provide the student with essential technology skills needed in the accounting and business environment. The university charges a fee for the dual credit.

Marketing Fundamentals (5914)

CGHS Course #: BU231

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit:

No

Prerequisite(s): Principles of Business Management (for class of 2025). Course can be taken concurrently with Principles of Business Management.



In the first semester students will learn how marketing helps businesses find customers for their products and services and how they sell those products/services for a profit. The focus will be on market segmentation, competition, communication, promotion, and marketing research. At the end of the first semester students will work in a team to help a fictional new business choose which products to carry, and create a business name, brand and image. In the second semester the students will learn about the importance of marketing in a global economy. The focus will be on global trade in a partner project about doing business in a foreign country. At the end of the second semester the students will analyze and apply the skills they have learned throughout the year by using a software simulation. In the simulation they will be responsible for running a retail store and making decisions about inventory, pricing, and promotion.

Strategic Marketing (5918)

Sports & Entertainment Marketing

CGHS Course #: BU241

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Principles of Business, Marketing Fundamental



Strategic Marketing builds upon the foundations of marketing and applies the functions of marketing at an advanced level. Students will study the basic principles of consumer behavior and examine the application of theories from psychology, social psychology, and economics.

The emphasis of this course will be on sports and entertainment marketing and will develop student understanding of the sport/event industries, their economic impact, and products; distribution systems and strategies; pricing considerations; product/service management, and promotion. Students acquire an understanding and appreciation of marketing and business management skills by running their own sports franchise using the popular fantasy football/basketball simulation. Throughout the course, students must apply academic and critical-thinking skills to manage, promote, and increase the value of their franchise by incorporating business content within the sports & entertainment market.

Business Law and Ethics I (4560)Sports

CGHS Course #: BU221

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual

Credit: No

Prerequisite(s): None



In the first semester students will learn about our laws and the judicial system. They will study their responsibility to make ethical decisions in both personal and business situations. The focus will be on Constitutional, civil, criminal, and juvenile law. Students will understand the levels of courts and courtroom procedures. At the end of the first semester students will participate in a mock small claims court civil case.

Business Law and Ethics 2 (4560)

CGHS Course #: BU221

Grade Level: 10 (with counselor approval), 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): Business Law and Ethics 1 with a grade of C- or above

The second semester will be more challenging as the focus shifts to contract law. Some of the main topics will be offers and acceptances, capacity, and legality of contracts. Students will understand how important it is to read and understand before signing contracts for the purchase of cars or renting an apartment. Students will attend a field trip to the Marion County Courthouse and talk with a representative from the prosecutor's office. At the end of the year students will participate in a criminal mock trial case.

Advanced Business: College Credit: VU MGMT 100 - Introduction to Business (3 College Credits) (6142)

CGHS Course #: BU401E

Grade Level: 10, 11, 12



Length: 1 Semester
Credit(s): One
Weighted Course: No **Dual Credit: Yes**
Prerequisite(s):

Intro to business management is the perfect dual credit course for early college students and any student interested in going into business. This course serves as your first business course in college and introduces students to all the basic functions and areas of business.

Students will be exposed to the many kinds of business activities and how they influence society. Deals with the three basic areas of business: production, marketing, and finance. Covers the role of people in business, from managerial functions to the non-managerial skills. THIS should be the first dual credit business course that you take.

Principles of Business Management: (VU MGMT 250) - Introduction to Management (6142)

CGHS Course #: BU250E
Grade Level: 10, 11, 12
Length: One Semester
Credit(s): One



Weighted Course: Yes Dual Credit: Yes
Prerequisite(s): VU MGT100

Principles of Business Management is the perfect pair to MGT100. This course is an upper level dual credit business course that focuses on the roles and responsibilities of managers as well as opportunities and challenges of ethically managing a business in the free enterprise system.

Students will attain an understanding of management, team building, leadership, problem solving steps and processes that contribute to the achievement of organizational goals. The management of human and financial resources is emphasized. This is the PERFECT upper level business course for anyone interested in going into the business field or obtaining a leadership position in the future. VU tuition charges apply.

Advanced Business: College Credit: ECON 208 - Personal Financial Management (3 College Credits)* (6142)

CGHS Course #: BU402E
Grade Level: 11, 12
Length: 1 Semester
Credit(s): One



Weighted Course: Yes Dual Credit: Yes
Prerequisite(s): Requires VU Accuplacer score and teacher recommendation; non-EC students must complete an application

A study of financial concerns and families. Included are family budgeting, insurance decisions, estate planning, installment buying, investment planning, and tax problems. VU tuition charges apply.

Advanced Business: College Credit - International Business and Finance (6142)

CGHS Course #: BU400
Grade Level: 12



Length: 1 Semester
Credit(s): One
Recommended Lexile: College level course
Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): Personal Finance, Accounting I, Computer Applications I, Financial Services and Planning or approval from Business Department Chairperson and member of Academy of Finance; Acceptance to University of Indianapolis

Advanced Business-College Credit is a title covering (1) any college-level business course offered for credit by an accredited postsecondary institution through an approved agreement with a secondary school, or (2) any other postsecondary business course offered for dual credit under the provisions of 511 IAC 6-10. The intent of this course is to allow students to earn college credit for courses with content that goes beyond that currently approved for high school credit. CGHS currently offers this course through University of Indianapolis. Students MUST be a member of the Academy of Finance to enroll in this course. The university charges a fee for the dual credit. Students will take the course on the UIndy campus and it is taught by UIndy professors.

HTML/Website and Database Development (VU) (4574)

CGHS Course #: BU373E
Grade Level: 11, 12
Length: 2 Semesters
Credit(s): Two



Weighted Course: No **Dual Credit: Yes**
Prerequisite(s): Recommended Digital Applications or Introduction to Communication

Students will have the opportunity to demonstrate their creativity and problem-solving abilities. This course is designed to give students a background in beginning web page design. Design and functionality in designing good web pages will be introduced. Students will learn how to create a basic website with colors, fonts, and graphics. More advanced topics such as tables, forms, CSS, Databases, XML, and Javascript will also be introduced. Students who complete the course and receive a grade of not less than a B are eligible for dual credit from Vincennes University (VU Comp 107 AND VU Comp 185 and Comp 257)

Website and Database Development (7185)

CGHS Course #: BU372
Grade Level: 10, 11, 12
Length: 2 Semesters
Credit(s): Two



Weighted Course: No **Dual Credit: Yes**
Prerequisite(s): Principles of Computing

Website and Database Development will provide students a basic understanding of the essential Web and Database skills and business practices that directly relate to Internet technologies used in Web site and Database design and development. Students will learn to develop Web sites using Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS). Additionally students will be introduced to the basic concepts of databases

including types of databases, general database environments, database design, normalization and development of tables, queries, reports, and applications. Students will be familiarized with the use of ANSI Standard Structured Query Language. Students will be introduced to data concepts such as data warehousing, data mining, and BIG Data. Students will develop a business application using database software such as Microsoft Access. Students will have the opportunity to earn Ivy Tech Dual Credit.

Computer Science Principles, AP/ACP/PLTW* (4568)

CGHS Course #: BU379

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): Algebra I



The AP Computer Science Principles course is meant to be an introductory “buffet” to Computer Science topics. Students will creatively address real-world issues and concerns while using the same processes and tools as artists, writers, computer scientists, and engineers to bring ideas to life. Students will have the opportunity to obtain dual credit through Indiana University. In order to receive college credit, students will pay tuition to IU and must successfully complete the course with a minimum grade of “C”. The curriculum strives to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. At the end of this course students may submit a portfolio and take the Advanced Placement Test to receive college credit hours. Counts as a Math Course for all diplomas and fulfills a science course requirement for all diplomas.

Principles of Computing (7183)

CGHS Course #: BU371

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No **Dual Credit: Yes**

Prerequisite(s): None



Principles of Computing provides students the opportunity to explore how computers can be used in a wide variety of settings. The course will begin by exploring trends of computing and the necessary skills to implement information systems. Topics include operating systems, database technology, cybersecurity, cloud implementations and other concepts associated with applying the principles of good information management to the organization. Students will also have the opportunity to utilize basic programming skills to develop scripts designed to solve problems. Students will learn about algorithms, logic development and flowcharting. Students will have the opportunity to earn Ivy Tech Dual Credit.

Computer Science A, AP*: (Programming with JAVA) (4570)

CGHS Course #: BU375

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Algebra II, recommended having AP Computer Science Principles or Computer Science I

Computer Science A, PLTW and Advanced Placement is designed to be the last class in the sequence of Computer Science (though students can take it as a solo course). It is a business mathematics course that provides students with the content established by the College Board. The course emphasizes object-oriented programming methodology using Java with a concentration on problem solving and algorithm development, and also includes the study of data structures, design, and abstraction. The course provides students an alternative to taking pre-calculus or calculus to fulfill the four-year math requirement for graduation. At the end of this course students may take the Advanced Placement Test to receive college credit hours. Counts as a mathematics or elective for all diplomas, fulfills a science course requirement for all diplomas, and qualifies as a quantitative reasoning course

ACP / PLTW Cybersecurity: Computer Science III 5253)

CGHS Course #: BU387

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): Required: Computer Science I or AP Computer Science Principles, recommended: AP Computer Science A



ACP/PLTW Cybersecurity is a full-year course implemented in 10th grade or above, which will allow students to gain exposure to the ever growing field of cybersecurity while also having the ability to obtain dual credit through Indiana University. This is not a college preparatory course, nor an advanced placement course; it is a college course that is offered in conjunction with Indiana University. Students accomplish this through problem-based learning, where students role-play as cybersecurity experts and train as cybersecurity experts do. It gives students a broad exposure to the many aspects of digital and information security, while encouraging socially responsible choices and ethical behavior. It inspires algorithmic thinking, computational thinking, and especially, “outside-the-box” thinking. In order to receive college credit, students will pay tuition to IU and must successfully complete the course with a minimum grade of “C”. Credit may be transferred to most Indiana colleges and state universities, but students need to check with the Admissions Department of the college of their choice prior to enrolling to ensure the credit. Enrollment for college credit is conditional upon acceptance by Indiana University guidelines.

Career Exploration Internship (0530)

Department: Multidisciplinary

CGHS Course #: MD495 & MD496

Grade Level: 9-12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Internships give students the opportunity to personally experience their career areas of interest. The student's understanding of his/her suitability for a career, the opportunities available to him/her, and general workforce practices and expectations will become evident as a result of in-class instruction and work experience. Students will develop employment skills under actual working conditions. Students' interest in academics will be enhanced by the applications of academic and job-related learning to actual work situations - learning becomes more relevant. Learning Objectives: Students will be required to secure an Internship site within the first week of the class and submit a completed Learning Agreement and Learning/Training Plan.

Students will be required to work at least 3 hours (6 hours if getting 2 credits or interning during your study hall time) a week at his/her Internship site.

Students will be required to complete time sheets every week.

Students will be required to complete assignments every month. Students will be required to complete a final project over his/her Internship experience.



EARLY COLLEGE COURSE DESCRIPTIONS (EC)

Department Chair: Eric Howe: howee@centergrove.k12.in.us

The mission of Early College (EC) is to accelerate college readiness, success, and completion through challenging college-credit coursework in a personalized environment with a network of staff, family, and community support.

Interested students should be at least on grade level and motivated. EC students are expected to pursue either the Indiana College Core (30-credit transfer certificate) or 60 credit Associate of Arts degree in General Studies. Many students benefit from the college-going culture, including first-generation students. Additional information is available on the website, <http://www.centergrove.k12.in.us/domain/158>.

9th Grade High School Classes

English 9 EC (1002)

CGHS Course #: EN111E

Department: English

Grade Level: 9

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): None



Students will read texts from a variety of genres presenting world perspectives and current issues. Students will also develop skills and strategies for writing expository, argumentative, and literary analysis pieces. The course also intends to facilitate in students the development of important skills such as critical thinking, issue, and literary analysis, problem-solving, interpretation, argument, and research in preparation for academic work at the sophomore level. This course is heavily reliant on technology and students can expect to create projects and complete formal assessments electronically.

Geography & History of the World EC (1570)

CGHS Course #: SS101E

Department: Social Studies

Grade Level: 9

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Students use geographical skills and historical concepts to deepen their understanding of global themes. Students use research tools to ask questions: acquire relevant information; use primary sources; and produce maps, timelines, and other graphic representations to interpret geographic and historical problems and events. Key concepts include change over time, cultural landscape, diffusion, human-environmental interactions, physical systems, and spatial organization and variation. Specific Social Science skills taught will give students a solid background for future Social Science courses.

Biology EC (3024)

CGHS Course #: SC111E

Department: Science

Grade Level: 9

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Biology I students study cell biology, genetics, homeostasis, ecology, and plant and animal dissections. These subjects are taught through a variety of teaching methods and class experiences including labs, lectures, and group work. Students will take the IDOE End of Course Assessment for Biology I in the month of May.

Biology Honors EC (3024)

CGHS Course #: SC113E

Department: Science

Grade Level: 9

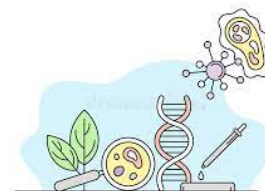
Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): None

Biology I Honors is a course based on the following core topics: cellular chemistry, structure, and reproduction; matter cycles and energy transfer; interdependence of organisms; molecular basis of heredity; genetics and evolution. This course follows the same topics as Biology I, but with more emphasis on designing, conducting, and writing laboratory assignments, analysis of scientific articles, and essay questions on tests.



Algebra I EC (2520)

CGHS Course #: MA101E

Department: Math

Grade Level: 9

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Freshman Status

Generate equivalent rational expressions
Manipulate expressions involving positive and negative rational exponents
Write an algebraic expression to represent the information presented in a real-world problem
Convert measurement units to evaluate expressions
Interpret expressions by identifying the dependent and independent variables
Add, subtract, and simplify polynomials
Multiply polynomials and factor out the greatest common factor

Factor second-degree expressions with a leading coefficient of 1 by trial and error and recognize a difference of squares or the square of a binomial

Solve equations and inequalities in one variable

Generating Equations in two or more variables to represent situations involving relationships between quantities

Generate systems of equations and/or inequalities to model real-world situations

Solve systems of equations and inequalities

Determine whether a functional relationship exists between two variables

Interpret function notation and graphs that describe various types of functional relationships

Evaluate functions expressed using function notation to solve real-world problems

Solve quadratic equations or functions in one variable with any leading coefficient

Graph quadratic equations and functions on a coordinate plane

9th Grade Dual Credit (College) Classes

Advanced Business College Credit, SSKL 106 - Study Skills, Preparing for College and Careers (5394)

CGHS Course #: FC111E
 Department: Family & Consumer Science
 Grade Level: 9
 Length: 1 Semester
 Credit(s): One
 Weighted Course: No Dual Credit: Yes
 Prerequisite(s): None



Keystone: Preparing for Life and Careers addresses the essential knowledge, skills, and behaviors all students need to live successfully in today's world. The focus of the course is to make students aware of how choices they make in high school can affect their future. Topics to be addressed include:

- Orientation to Center Grove High School
- Exploration of personal skills
- Career exploration and planning
- Making a four-year plan for high school
- College and post-secondary options
- Decision-making and organizational skills
- Creating a portfolio in Family Connections

Ninth graders will develop four-year plans with counselor participation. Other resources that will be utilized during the course include Top 20 Teens: Discovering the Best-Kept Thinking, Learning & Communicating Secrets of Successful Teenagers, and career interest and learning style inventories. This is a foundation course designed to teach knowledge and life skills that are essential for all high school students regardless of their career interests. VU tuition charge applies. (3 college credits)

VU Principles of Business Management (6142)

CGHS Course #: BU121E
 Grade Level: 9, 10, 11
 Length: Year Long
 Credit(s): Two



Weighted Course: No Dual Credit: Yes
 Prerequisite(s): None

Principles of Business Management examines business ownership, organization principles and problems, management, control facilities, administration, financial management, and development practices of business enterprises. This course deals with the three basic areas of business: production, marketing, and finance (VU MGMT 100). This course will also emphasize the identification and practice of the appropriate use of technology to communicate and solve business problems and aid in decision making. Students have the opportunity to earn Microsoft Office Specialist certifications through Word, Excel, PowerPoint (VU COMP 110) Attention will be given to developing business communication, problem-solving, and decision making skills using spreadsheets, word processing, data management, and presentation software. Students earn credit in VU Management 100 (3 college credits) and VU Comp 110 (3 college credits). VU tuition charge applies.

10th Grade High School Classes

American Studies EC (1006/1542)

CGHS Course #: EN311E & SS311E
 Department: English
 Grade Level: 10
 Length: 2 Semesters
 Credit(s): Two
 Weighted Course: No Dual Credit: No
 Prerequisite(s): Sophomore Status

American Studies is an integrated course, blending United States History and American Literature from the forming of our country with the writing of the Declaration of Independence to the present day. Students will earn four credits (2 English, 2 Social Studies) over the course of this school year, receiving only ONE grade per semester. Students will also develop skills and strategies for writing expository, argumentative, and literary analysis pieces. The course also intends to facilitate in students the development of important skills such as critical thinking, historical and literary analysis, problem-solving, interpretation, argument, and research in preparation for academic work at the college level. This course is heavily reliant on technology and students can expect to create projects and complete formal assessments electronically.

Algebra II EC (2522)

CGHS Course #: MA201E
 Department: Math
 Grade Level: 9, 10, 11, 12
 Length: 2 Semesters
 Credit(s): Two
 Weighted Course: No Dual Credit: No
 Prerequisite(s): At least a C- in both semesters of Algebra I

Algebra II is a full-year course that expands on the topics of Algebra I and provides further development of the concept of a function. The Essential Learnings of the course are as follows:

- Simplify, solve and graph rational equations, simplify and evaluate fractional exponents, multiply and divide polynomial expressions, solve quadratic equations, graph quadratic functions on a coordinate plane, manipulate complex numbers, graph piecewise and absolute value functions, graph and solve exponential functions
- Graph and solve radical functions, graph and solve logarithmic functions, calculate the probabilities of independent and dependent events, and calculate combinations and permutations.
- Problem-solving emphasizing practical applications of Algebra will be explored through a variety of problem-solving techniques. Calculators will be integrated into this course throughout the year. A graphing calculator is required. Please refer to our calculator policy at the beginning of the math course descriptions.

Chemistry I (3064)

CGHS Course #: SC331E

Department: Science

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Biology, ICP, or Teacher Recommendation, B in Algebra I

Chemistry I is a course based on the following core topics: properties and states of matter; atomic structure; bonding; chemical reactions; solution chemistry; behavior of gases, and organic chemistry. Students enrolled in Chemistry I compare, contrast, and synthesize useful models of the structure and properties of matter and the mechanisms of interactions.

11th and 12th Grade High School Classes

Economics EC (1514)

CGHS Course #: SS431E

Department: Social Studies

Grade Level: 11, 12

Length of: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): American Studies

Economics includes a study of the allocation of scarce resources and their alternative uses for satisfying human wants. This course examines basic models of decision-making at various levels and in different areas including (1) decisions made as a consumer, producer, saver, investor, and voter; (2) business decisions to maximize profits; and (3) public policy decisions in specific markets dealing with output and process in the national economy. Students attending C-9 must wait until their senior year to take this course.



Trigonometry EC (2566)

CGHS Course #: MA431E

Dual Credit: No

Department: Math

Grade Level: 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): C- average in both semesters of Algebra II and Geometry along with a teacher recommendation.

Trigonometry provides students with skills and understandings that are necessary for advanced manipulation of angles and measurement. Trigonometry provides the foundation for common periodic functions that are encountered in many disciplines, including music, engineering, medicine, finance, and nearly all other STEM disciplines. This course will concentrate on trigonometric ratios in both degrees and radians, graphing trigonometric functions, verifying trigonometric identities, solving trigonometric equations, and utilizing the laws of sine and cosine to solve problems.

Geometry EC (2532)

CGHS Course #: MA301E

Department: Math

Grade Level: 11, 12

DOE Course #: 2532

Length: 2 Semesters

Credit(s): Two

Weighted Course: No

Prerequisite(s): Algebra 1 and Algebra 2



Good thinking and study skills are necessary to be successful in Geometry. This is a full-year course and will focus on these essential learning (EL's) skills:

1. Prove properties of the sides, angles, and diagonals of parallelograms.
2. Prove that a perpendicular bisector of a line segment includes all the points that are equidistant from the endpoints of the line segment.
3. Determine the location of the point which bisects a line segment.
4. Prove that vertical angles of intersecting lines are congruent.
5. Prove the angle relationships created by two parallel lines intersected by a transversal.
6. Prove that a line passing through a triangle that is parallel to one side of the triangle forms two overlapping triangles with proportional side lengths.
7. Prove that the sum of the interior angles of a triangle is 180.
8. Prove that the base angles of an isosceles triangle are congruent.
9. Describe the relationships between the chords, radii, diameters, tangents, and secants of a circle.
10. Identify the relationships between inscribed angles, central angles, circumscribed angles, and arcs of a circle.
11. Trigonometric Ratios in Right Triangles.

A scientific calculator is required for this course. Please refer to our calculator policy at the beginning of the math course description.

Additional Dual Credit (College) Classes and Additional Electives

Advanced English/Language Arts, College Credit - ENGL 101 - English Composition I (1124)

CGHS Course #: EN10
Department: English
Grade Level: 11, 12
Length: 1 Semester
Credit(s): One
Weighted Course: Yes Dual Credit: Yes
Prerequisite(s): Requires 2.5 GPA; C or higher in the previous 2 semesters of English; passing all other classes and a teacher recommendation



English Composition I is a college-level course in writing designed to help students develop their ability to think, organize, and express their ideas clearly and effectively. Emphasis is placed on the various forms of expository writing such as process, description, narration, comparison, analysis, persuasion, and argumentation. Numerous in-class writing assignments are required in addition to extended essays written outside of class. VU tuition charge applies. (3 college credits)

Advanced English/Language Arts, College Credit - ENGL 102 - English Composition II (1124)

CGHS Course #: EN200E
Department: English
Grade Level: 12
Length: 1 Semester
Credit(s): One
Weighted Course: Yes Dual Credit: Yes
Prerequisite(s): Must complete ENGL 101 and earn a grade of C or better; GPA 2.5+



Continued development of writing skills was introduced in ENGL 101. Students learn how to conduct research and how to base their writing on research. In addition to shorter documented papers, all students are required to write a longer investigative paper that must be fully documented according to MLA standards. VU tuition charge applies. (3 college credits)

Advanced English/Language Arts, College Credit ENGL 202 - Creative Writing (1124)

DOE Course #: 1124
Department: English
Grade Level: 11, 12
CGHS Course #: EN100S
Length: 1 Semester
Credit(s): One
Weighted Course: Yes Dual Credit: yes
Prerequisite(s): Must complete ENGL 101 and earn a grade of C or better; GPA 2.5+



A course designed to give students the opportunity for creative expression through one or more of the literary genres - short fiction, novella, poetry, one-act drama, and essay. VU tuition charge applies. (3 credits)

Advanced English/Language Arts, College Credit - LITR 100 - Intro to Literature (1124)

CGHS Course #: EN100D
Department: English
Grade Level: 11, 12
DOE Course #: 1124
Length: 1 Semester
Credit(s): One
Weighted Course: Yes Dual Credit: Yes
Prerequisite(s): Requires 2.5 GPA; C or higher in the previous 2 semesters of English; passing all other classes and a teacher recommendation



An introduction to literature and to three major genres: fiction, poetry, and drama. Emphasis is placed on the ability to read critically and gain an appreciation for literature. VU tuition charge applies.

Advanced English/Language Arts, College Credit LITR 221 Introduction to World Literature (1124)

CGHS Course #: EN703E
Department: English
Grade Level: 12
Length of Course: 1 Semester
Credit(s): One
Weighted Course: Yes Dual Credit: Yes
Prerequisite(s): Must complete ENGL 101 and earn a grade of C or better; LITR 100 is preferred; GPA 2.5+



A general education survey course designed to acquaint the student with selected major literary works and various literary types produced from the Jacobean period to the present. The course content includes work by Eastern, Continental, British, and American authors. Instruction in research techniques and writing research papers is combined with literary study. VU tuition charge applies. (3 college credits)

Advanced English/Language Arts, College Credit – LITR 240 – Children’s Literature (1124)

CGHS Course #: EN240E
Department: English
Grade Level: 12
DOE Course #: 1124
Length of Course: 1 Semester
Credit(s): One
Weighted Course: Yes Dual Credit: Yes
Prerequisite(s): Must complete ENGL 101 and earn a grade of C or better; LITR 100 is preferred; GPA 2.5+



This course is designed for students who may wish to gain or regain an appreciation for the best literature written for children. Classic and modern children’s books, ranging from kindergarten to junior high level, will be read and discussed. Students will learn about the ways that children’s literature cultivates a love for

reading in both children and adults. This course is a transfer IN course. VU tuition charge applies. (3 credits)

Advanced English/Language Arts, College Credit - VU COMM 143 – Speech (1124)

CGHS Course #: EN341E or EN341G

Department: English

Grade Level: 10, 11, 12

DOE Course #: 1124

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Requires 2.5 GPA; C or higher in the previous 2 semesters of English; passing all other classes



Introduces fundamental concepts and skills for effective public speaking including audience analysis, outlining, research, delivery, critical listening and evaluation, and the use of visual aid/technology. This course will be offered both in-class and online. VU tuition charge applies. (3 college credits)

Advanced Social Science, College Credit

Advanced Social Sciences, College Credit - POLS 111 American National Government (1574)

CGHS Course #: SS111E

Department: Social Studies

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): Requires a teacher recommendation from American Studies



A study of federalism, theories of the origins and purposes of the government, and other aspects of the central government, including pressure groups, political parties, and the electoral process. Emphasis is also placed on constitutional backgrounds and the organization and functions of the executive, legislative, and judicial segments of the national government. VU tuition charge applies. (3 college credits)

Advanced Social Sciences, College Credit – HIST 230 Special Topics in American History: The Constitution and Social Causes (1574)

CGHS Course #: SS230E

Department: Social Studies

Grade Level: 12

Length: 1 Semester

Credit(s): One

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): Requires 2.5 GPA; C or higher in the previous 2 semesters of English; passing all other classes and a teacher recommendation



A study of American History and Political Science with specific curiosity about civil rights, national issues, and Constitutional law.

Students will view historical and contemporary issues in American society through a Constitutional lens with an emphasis on reading Supreme Court decisions, concurrences, and dissents. VU tuition charge applies. (3 college credits)

Advanced Social Sciences, College Credit - HIST 139 - American History (1574)

CGHS Course #: SS139E

Department: Social Studies

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): Requires 2.5 GPA; C or higher in the previous 2 semesters of English; passing all other classes and a teacher recommendation; completion of POLS 111 preferred.

The colonial period; causes and results of the American Revolution; the development of the federal system of government; the growth of the democracy; early popular American culture; territorial expansion; slavery and its effects; sectionalism; causes and effects of the Civil War; reconstruction, political and economic. VU tuition charge applies. (3 college credits)

Advanced Social Sciences, College Credit - HIST 140 - American History (1574)

CGHS Course #: SS140E

Department: Social Studies

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): Requires 2.5 GPA; completion or concurrent enrollment of ENGL 101 with a grade of C or higher; passing all other classes and a teacher recommendation; completion of POLS 111 preferred.

The industrial growth of the nation and its effects, agrarian and urban discontent and attempts at reform, WWI, the Roaring Twenties, social and governmental changes of the thirties, WWII and its consequences, the growth of the federal government, social and political upheaval in the sixties and seventies, and the conservatism of the eighties. VU tuition charge applies. (3 college credits)

Advanced Social Sciences, College Credit - SOCL 151 - Principles of Sociology (1574)

CGHS Course #: SS441E

Department: Social Studies

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): Requires 2.5 GPA; C or higher in the previous 2 semesters of English; passing all other classes and a teacher recommendation



Sociology provides opportunities for students to study group behavior and basic human institutions. Broad areas of content include the study of institutions found in all societies and could involve: culture, socialization, groups, deviance, social class, and race/ethnicity. This is a college preparatory elective and will utilize a college-level textbook. VU tuition charge applies. (3 college credits)

Advanced Science, College Credit

Advanced Science, College Credit - GEOS 101- Environmental Science (3090)

CGHS Course #: SC126E

Department: Science

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): Requires 2.5 GPA; C or higher in previous 2 semesters of science; teacher recommendation



Introduction to fields of geology, meteorology, oceanography, and astronomy. Designed especially for non-science majors. Includes lab. VU tuition charge applies. (4 college credits)

Advanced World Language, College Credit

Advanced World Language, College Credit - SPAN101 Spanish Level 3; Semester 1 (2152)

CGHS Course #: FL241E

Department: World Languages

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: Yes

Prerequisite(s): High School Spanish 2, Teacher Recommendation



An introduction to the Spanish language and culture with an emphasis on listening and speaking skills, guided communication tasks, and vocabulary building. Use of audio-visual aids, videos, language labs, and "less-stress" techniques. This course is a transferable course. VU tuition charge applies. (4 college credits)

Advanced World Language, College Credit - SPAN 103 Spanish Level 3; Semester 2 (2152)

CGHS Course #: FL243E

Department: World Languages

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: Yes

Prerequisite(s): High School Spanish II, Teacher Recommendation



A continuation of SPAN 101 with structured oral communication, vocabulary building, listening, and speaking skills. Reading of graded and glossed materials, basic grammatical structures, and writing. VU tuition charge applies. (4 college credits)

Advanced World Language, College Credit - SPAN 201 Spanish Level 4; Semester 1 (2152)

CGHS Course #: FL445E

Department: World Languages

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): High School Spanish I-III with a B- or higher and teacher recommendation



Students in Spanish IV are expected to listen to, as well as speak, the Spanish language. Spanish IV enables the students to respond in Spanish to factual and interpretive questions, interact in social situations, express opinions and make judgments, to read for comprehension from a variety of longer authentic materials, to write compositions on a given topic, and to begin using Spanish creatively. In addition, students are aware of the relationship between various art forms in at least one major historical period, aware of one major literary, musical and artistic period and genre, are able to adjust speech appropriate to the situation and audience, and to participate appropriately in a variety of circumstances. (4 college credits)

Advanced World Language, College Credit - SPAN 203 Spanish Level 4; Semester 2 (2152)

CGHS Course #: FL447E

Department: World Languages

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): High School Spanish I-III with a B- or higher and teacher recommendation



Students in Spanish IV are expected to listen to, as well as speak, the Spanish language. Spanish IV enables the students to respond in Spanish to factual and interpretive questions, interact in social situations, express opinions and make judgments, to read for comprehension from a variety of longer authentic materials, to write compositions on a given topic, and to begin using Spanish creatively. In addition, students are aware of the relationship between various art forms in at least one major historical period, aware of one major literary, musical and artistic period and genre, are able to adjust speech appropriate to the situation and audience, and to participate appropriately in a variety of circumstances. (4 college credits)

Advanced World Language, College Credit - FREN101 -French Level 3; Semester 1 (2152)

CGHS Course #: FL211E

Department: World Languages

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit Yes



Prerequisite(s): High School French 2, Teacher Recommendation

This Vincennes University course is equivalent to high school French 3. An introduction to the French language and culture with an emphasis on oral skills and basic grammar including guided communication tasks, vocabulary development, listening, and phonetics. It is an introductory reading and writing course. This course is a transferIN course. VU tuition charge applies. (4 college credits)

Advanced World Language, College Credit - FREN 103 - French Level 3; Semester 2 (2152)

CGHS Course #: FL311E

Department: World Languages

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: Yes

Prerequisite(s): High School French II, Teacher Recommendation



This Vincennes University course is equivalent to high school French 3. It is a continuation of French 101 with structured oral communication, vocabulary building, reading of graded and glossed materials, basic grammatical structures, and writing. VU tuition charge applies. (4 college credits)

Advanced World Language, College Credit - FREN 201 - French Level 4; Semester 1 (2152)

CGHS Course #: FL446E

Department: World Languages

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): High School French I-III with a B- or higher and Teacher Recommendation



In French IV students review the basic material learned in French I, II, and III before proceeding with the French IV curriculum. French 4 enables the students to respond to factual and interpretive questions, interact in social situations, and express opinions and make judgments, to give presentations on cultural topics, to read for comprehension from a variety of longer authentic materials, to write compositions on a given topic, and to begin using French creatively. Students are able to write, read, and understand more complex grammatical structures. Students will continue to speak more in-depth and fluidly about many topics. (4 college credits)

Advanced World Language, College Credit - FREN 203 - French Level 4; Semester 2 (2152)

CGHS Course #: FL448E

Department: World Languages

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: Yes Dual Credit: Yes



Prerequisite(s): High School French I-III with a B- or higher and Teacher Recommendation

In French IV students review the basic material learned in French I, II, and III before proceeding with the French IV curriculum. French 4 enables the students to respond to factual and interpretive questions, interact in social situations, and express opinions and make judgments, to give presentations on cultural topics, to read for comprehension from a variety of longer authentic materials, to write compositions on a given topic, and to begin using French creatively. Students are able to write, read, and understand more complex grammatical structures. Students will continue to speak more in-depth and fluidly about many topics. VU course is 4 college credits.

Advanced Math, College Credit

Advanced Math, College Credit - MATH 102 - College Algebra (2544)

Dual Credit: Yes

CGHS Course #: MA461E

Department: Math

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One Credit

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Requires 2.5 GPA; C or higher in the prior 2 semesters of math and teacher recommendation



Designed as a pre-calculus course for the study of functions (including polynomial, rational, exponential, and logarithmic) and their graphs; includes the transformation of functions, operations on functions, solution methods for linear and nonlinear equations, systems, and inequalities, and selected topics from analytic geometry. Utilizes graphing technology. VU tuition charge applies. (3 college credits)

Advanced Math, College Credit - MATH 104 – Trigonometry (2544)

CGHS Course #: MA463E

Department: Math

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: Yes

Prerequisite(s): GPA 2.5+; must earn C or better in MATH 102



Discussion of trigonometric functions of angles and numbers. Use of trigonometric functions both in triangle solutions and in the study of physical phenomena such as electric circuits and sound waves. VU tuition charge applies. (3 college credits)

Advanced Math, College Credit - MATH 103 – Quantitative Reasoning (2544)

CGHS Course #: MA432E

Department: Math

Grade Level: 12

Length: 1 Semester



Credit(s): One
Weighted Course: No Dual credit: Yes
Prerequisite(s): Requires 2.5 GPA; C or higher in the previous 2 semesters of math; passing all other classes and a teacher recommendation.

This course is for the non-science major with an emphasis on proportional reasoning and solving problems. Topics include the mathematics of finance, graph theory, linear programming, counting techniques and probability, mathematical modeling, and statistics. VU tuition charge applies. (3 college credits)

Advanced Business, College Credit

Advanced Business, College Credit - MGMT 100 - Introduction to Business (6142)

CGHS Course #: BU401E

Department: Business

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None



This is a Vincennes University course equivalent to college-level Introduction to Business. It exposes students to many kinds of business activities and how business influences our society. It introduces the role of people in business and will expose students to a well-rounded business curriculum. The basics of all areas of business will be covered: including Economics, Ethics, Management, Marketing, & Finance. This course is a transferIN course. VU tuition charge applies. (3 college credits)

Advanced Business, College Credit - ECON 208 - Personal Financial Management (6142)

CGHS Course #: BU402E

Department: Business

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): Requires 2.5 GPA; C or higher in the previous 2 semesters of history; passing all other classes and a teacher recommendation

A study of financial concerns for families. Included are family budgeting, insurance decisions, estate planning, installment buying, investment planning, and tax problems. VU tuition charge applies. (3 college credits)



Advanced Business, College Credit–MGMT 250–Principles of Business Management–Introduction to Management (6142)

CGHS Course #: BU250E

Grade Level: 10, 11, 12

Length: One Semester

Credit(s): One

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): VU Principles of Business

MGMT 250 is the perfect follow up course to VU Principles of Business Management. This course is an upper level dual credit business course that focuses on the roles and responsibilities of managers as well as opportunities and challenges of ethically managing a business in the free enterprise system. Students will attain an understanding of management, team building, leadership, problem solving steps and processes that contribute to the achievement of organizational goals. The management of human and financial resources is emphasized. This is the PERFECT upper level business course for anyone interested in going into the business field or obtaining a leadership position in the future. VU tuition charges apply. (3 college credits)



Advanced Business, College Credit–COMP 201–The Computer in Business (6142)

CGHS Course #: BU122E

Grade Level: 10, 11, 12

Length: One Semester

Credit(s): One

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): VU Principles of Business

This course is designed to develop computer competency in a variety of computer related skills such as spreadsheets, Internet software and Windows, as well as a basic working knowledge of computer and information concepts appropriate for most organizations. . VU tuition charges apply. (3 college credits)

Advanced Fine Arts, College Credit

Advanced Fine Arts, College Credit MUSC 218 - Music Appreciation (4260)

CGHS Course #: MU500E

Department: Music

Grade Level: 12

Length: 1 Semester

Credit(s): One

Weighted Course: Yes Dual Credit: Yes

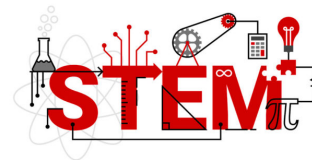
Prerequisite(s): GPA 2.5+; C or better in ENG 101

An introductory course to music stressing the art of listening with discussions of prominent composers, their works, and their styles. No previous knowledge of music is required. VU charge applies. (3 college credits)





PLTW | Engineering



ENGINEERING & TECHNOLOGY DESCRIPTIONS

Department Chair: Mr. Brent Schulz: schulzb@centergrove.k12.in.us

[Engineering and Technology Department Website](#)

Engineering & Technology Education courses are grouped in four clusters, each containing an introductory course to provide the basis for further study within that cluster. These clusters include Communication, Construction, Manufacturing, and Transportation Technologies. There is also an introductory CAD/Drafting course that can serve as a pathway between the cluster courses to the advanced course field of engineering. The Project Lead the Way courses are offered for students interested in the fields of engineering.



[@CGHSEngTech](#)

Introduction to Manufacturing

CGHS Course #: TE131

DOE Course #: 4784

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

CGHS Credits: Two

Weighted Course: No | Dual

Credit: No

Prerequisite(s): None



Introduction to Manufacturing is designed to provide students with opportunities to explore career offerings and technical aspects related to producing consumer and commercial products. An understanding of manufacturing provides a background toward developing engineering & technological literacy. This understanding is developed through the study of the two major technologies: material processing and management technology which is used by all manufacturing enterprises.



Students will apply the skills and knowledge of using modern manufacturing processes to obtain resources and change them into industrial materials, industrial products, and consumer products. Some of the covered topics include: technical drawing, system and process analysis, design principles, safe operation of hand and power tools, mass production techniques, and other various hands-on activities. Instructional resources will include

traditional presentations, student centered research, and hands-on projects.

Robotics Design and Innovation

CGHS Course #: TE140

DOE Course #: 4728

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

CGHS Credits: Two

Weighted Course:

No | Dual Credit: No

Prerequisite(s): None



Robotics Design and Innovation is designed to provide students with opportunities to explore career offerings and technical aspects related to robotics in industry and society overall. This relatively new technology is applied in a variety of fields including: manufacturing, medical devices and procedures, security, and food preparation to list a few. Students design, build, and optimize robots to perform a variety of pre-designated tasks within a collaboration team and participate in classroom robotic competitions. During the full year course, students will complete a variety of hands-on projects with increasingly higher levels of difficulty and creativity. Initially, students will build predetermined VEX IQ robots to illustrate the use of common robotic components. Eventually, students will be designing their own VEX EDR robotic system to complete a series of challenges leading to an in-class competition as a final capstone activity. Team building, problem solving, and design process will be additional skills introduced and developed in the course. Instructional resources will include traditional presentations, student centered research, and hands-on projects.

Principles of Construction Trades

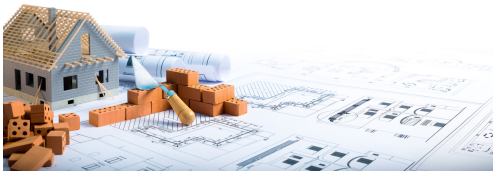
CGHS Course #: TE223

DOE Course #: 7130

Grade Level: 9, 10, 11, 12

Length: 2 Semesters
CGHS Credits: Two
Weighted Course: No | Dual Credit: No
Prerequisite(s): None

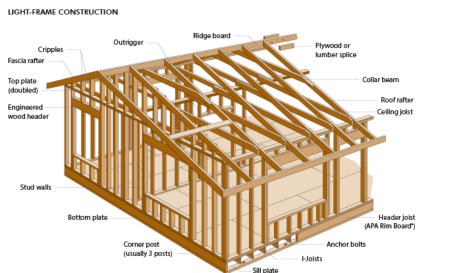
Principles of Construction Trades prepares students with the basic skills needed to continue in a construction trade field or simply learn more about the construction world. Topics will include an introduction to the types and uses for common hand and power tools, learn the types and basic terminology associated with construction drawings, and basic safety. Additionally, students will study the roles of individuals and companies within the construction industry and reinforce mathematical and communication skills necessary to be successful in the construction field. This course is the prerequisite for the construction trades pathway.



Construction Trades: General Carpentry

CGHS Course #: TE323
DOE Course #: 7128
Grade Level: 10, 11, 12
Length: 2 Semesters
CGHS Credits: Two
Weighted Course: No | Dual Credit: No
Prerequisite(s): Introduction to Construction or Principles of Construction Trades

Construction Trades: General Carpentry is the second level course in the Construction Trades pathway. This course builds upon the skills learned in the Principles of Construction Trades or Introduction to Construction and examines the basics of framing. This includes studying the procedures for laying out and constructing floor systems, wall systems, ceiling joist | roof framing, and basic stair layout. Additionally, students will be introduced to building residential envelope systems.



Computers in Design and Production

CGHS Course #: TE251
DOE Course #: 4800
Ivy Tech Course# DESN 101
Grade Level: 9, 10, 11, 12
Length: 2 Semesters



CGHS Credit: Two | Ivy Tech: Three
Weighted Course: No | Dual Credit: Yes
Prerequisite(s): None

Computers in Design and Production is designed to provide students with opportunities to explore career offerings and technical aspects related to applying computer technology in an industrial setting. Specifically, students will be given an opportunity to develop basic technical drawing skills, use of CAD programs, and robot programming. Projects will be completed using software such as Autodesk(R) Inventor, Autodesk(R) Revit and RobotC. Instructional resources will include traditional presentations, student centered research, and hands-on projects. This is a dual college credit course.

JOHNSON COUNTY ADVANCED MANUFACTURING PROGRAM: (J CAMP)

Introduction to Advanced Manufacturing and Logistics

CGHS Course #: TE301
DOE Course #: 4796
Ivy Tech Course #: ADMF 101
Grade Level: 9, 10, 11, 12
Length: 2 Semesters
CGHS Credits: Two | Ivy Tech: Three
Weighted Course: No | Dual Credit: Yes
Prerequisite(s): Earn an A or B in prior years mathematics and science courses, teacher approval and application review.



Introduction to Advanced Manufacturing and Logistics (J CAMP - AML) is a course that introduces the basic principles and practices of Safety and Quality used in manufacturing environments. Safety instruction covers topics including; Material Safety Data Sheets (MSDS), confined space, lock out/tag out, zero energy state, hazardous materials, storage of flammable materials, storage of fuel gas and high pressure gas cylinders, portable powered tool safety, hand tool safety, record keeping, training, employer enforcement of safety regulations, and right to know. This course also covers current quality control concepts and techniques in industry with emphasis on modern manufacturing



requirements. Topics of instruction include basic statistical and probability theory, sampling techniques, process control charts, nature of variation, histograms, attributes and variable charts. This course will use lecture, lab, online simulation and programming to prepare students for Certified Production Technician Testing through Manufacturing Skill Standards Council (MSSC). In addition, this course will also include an online OSHA 10 hour certification program in which successful completion results in students earning their OSHA 10 General Industry certification.

Advanced Manufacturing I

CGHS Course #: TE302

DOE Course #: 5608

Ivy Tech Course #: ADMF 102

Grade Level: 10, 11, 12

Length: 2 Semesters

CGHS Credits: Two | Ivy Tech: Three

Weighted Course: No | Dual Credit: Yes

Prerequisite(s): Introduction to Advanced Manufacturing and Logistics



Advanced Manufacturing I is a course that includes classroom and laboratory experiences in two broad areas: Industrial



Technology/Software Controls and Manufacturing Trends. Domains include safety and

impact, electricity, manufacturing essentials, fluid power principles, mechanical principles, lean manufacturing, and careers in advanced manufacturing. Hands-on projects and team activities will allow students to apply learning on the latest industry technologies. Students take this course with the goal of being a skilled machine operator, repair technician, or working in management at any company that produces goods and services using advanced manufacturing techniques. Work-based learning experiences and industry partnerships are highly encouraged for an authentic industry experience.

PLTW | Engineering

Introduction to Engineering Design (IED) - PLTW*

CGHS Course #: TE363

DOE Course # 4802

Ivy Tech Course #'s: DESN 101 and DESN 113

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

CGHS Credits: Two | Ivy Tech: Six

Weighted Course: Yes | Dual Credit: Yes

CGHS Prerequisite(s): Any student who has taken Algebra I and passed with a C or higher or current 8th grade student with a B or above in their math class is eligible.

Ivy Tech Dual Credit Prerequisite: None

Introduction to Engineering Design is a fundamental pre-engineering course where students become familiar with the engineering design process. Students work both individually and in teams to design solutions to a variety of problems using industry standard sketches and current 3D design and modeling software (Autodesk (R) Inventor) to represent and communicate solutions. Students apply their knowledge through hands-on projects and document their work with the use of an engineering notebook. Students' progress from completing structured activities to solving open-ended projects and problems that



require them to develop planning, documentation, communication, and other professional skills. This is a dual college credit course.



Principles of Engineering (POE) – PLTW

CGHS Course #: TE365

DOE Course #: 5644

Ivy Tech Course #: DESN 104

Grade Level: 10, 11, 12

Length: 2 Semesters

CGHS Credits: Two | Ivy Tech: Three

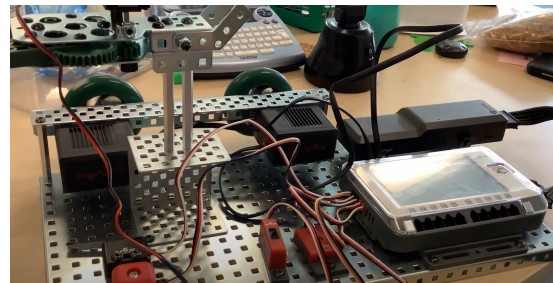
Weighted Course: Yes | Dual Credit: Yes

CGHS Prerequisites: Introduction to Engineering Design and instructor approval. Students need to have a C or higher in Algebra I.

Ivy Tech Dual Credit Prerequisite: DESN 101 (IED | TE363)



Principles of Engineering is a class that allows students to build on the learned engineering concepts from IED, and apply them to more in-depth projects. Students will explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. The students also build and manipulate the VEX robotic systems so they can physically see what they have learned and demonstrate the application of the main concepts. Units also involve kinematics, programming, circuitry, and bridge design. This is a dual college credit course.



Digital Electronics (DE) – PLTW

CGHS Course #: TE367

DOE Course #: 5538

Ivy Tech Course #:

Grade Level: 11, 12

Length: 2 Semesters

Credits: Two | Ivy Tech: Three

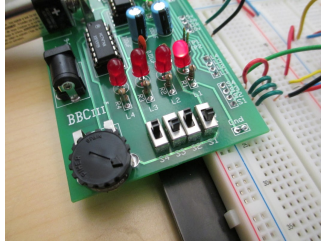
Weighted Course: Yes | Dual Credit: Yes

Prerequisite(s): Introduction to Engineering Design and Principles of Engineering. Instructor approval is required. Instructor approval is required.

Ivy Tech Dual Credit Prerequisite: DESN 101 & DESN 104 (IED | TE363 & POE | TE365)



Digital Electronics is a specialized course within the engineering track of Project Lead the Way (PLTW). The course is designed as an exploratory program to introduce students to a wide variety of topics pertaining to this discipline. Some of the topics include: component identification and function, soldering, circuit design, Boolean algebra circuit simplification, K-mapping, bread boarding, use of AOI logic gates and IC chips, Multisim circuit testing and many other topics. The course will prepare students to be successful in ongoing course work at the postsecondary level. This is primarily a conceptual approach to prepare students to apply the information found frequently within a business environment. This full course will include a comprehensive end of course exam administered through PLTW at the conclusion of the school calendar.



Civil Engineering and Architecture (CEA) - PLTW*

CGHS Course #: TE369
 DOE Course #: 5650
 Ivy Tech Course:
 Grade Level: 11, 12
 Length: 2 Semesters
 CGHS Credit(s): Two | Ivy Tech: Three
 CGHS Weighted Course: Yes | Dual Credit: Yes
 Prerequisite(s): Introduction to Engineering Design and Principles of Engineering. Instructor approval is required.
 Ivy Tech Dual Credit Prerequisite: DESN 101 & DESN 104 (IED | TE363 & POE | TE365)



Civil Engineering and Architecture introduces students to the fundamental design and development aspects of civil engineering and architectural planning activities. Application and design principles will be used in conjunction with mathematical and scientific knowledge. Computer software program: Autodesk (R) Revit will allow students opportunities to design, simulate, and evaluate the construction of buildings and communities. During the planning and design phases, instructional emphasis should be placed on related transportation, water source, and environmental issues. Activities will include the preparation of cost estimates as well as a review of regulatory procedures that would affect the project design.



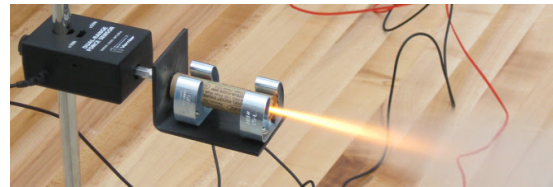
Aerospace Engineering (AE) - PLTW*

CGHS Course #: TE371
 DOE Course #: 5518
 Grade Level: 11, 12
 Length: 2 Semesters



CGHS Credits: Two
 Weighted Course: Yes | Dual Credit: No
 Prerequisite(s): Has taken or is taking POE, Algebra II and Physics.
 Instructor approval is required.

Aerospace Engineering will provide students with the fundamental knowledge and experience to apply mathematical, scientific, and engineering principles to the design, development, and evolution of aircraft, space vehicles and their operating systems. Emphasis will include investigation and research on flight characteristics, analysis of aerodynamic design, and impact of this technology on the environment. Classroom instruction will provide creative thinking and problem-solving activities using software that allows students to design, test, and evaluate a variety of air and space vehicles, their systems, and launching, guidance and control procedures.



Computer Integrated Manufacturing (CIM) - PLTW*

CGHS Course #: TE380
 DOE Course #: 5534
 Grade Level: 11, 12
 Length of Course: 2 Semesters
 CGHS Credits: Two
 Weighted Course: Yes | Dual Credit: No
 Prerequisite(s): Introduction to Engineering Design and Principles of Engineering. Instructor approval is required.



Computer Integrated Manufacturing is a course that applies principles of rapid prototyping, robotics, and automation. Students will use computer controlled prototyping equipment, such as CNC mills, laser engravers, and 3D printers to solve problems by constructing actual models of their three-dimensional designs. Students will also be introduced to the fundamentals of robotics and how this equipment is used in an automated manufacturing environment. Students evaluate their design solutions using various techniques of analysis and

make appropriate modifications before producing their prototypes.

Engineering Design and Development (EDD) - PLTW*

CGHS Course #: TE401

DOE Course #: 5698

Grade Level: 12

Length of Course: 2 Semesters

CGHS Credits: Two

Weighted Course: Yes | Dual Credit: No

Prerequisite(s): Introduction to Engineering Design and Principles of Engineering, and another Project Lead the Way elective.

Instructor approval is required.

Engineering Design and Development (EDD) is the capstone course in the engineering track of Project Lead the Way (PLTW). The course incorporates many of the other engineering PLTW programs such as IED, POE, DE, and CEA and others. Unlike other PLTW courses, EDD is a research based format where student groups identify a problem, formulate potential designs, and develop prototype solutions leading to a final design concept and

workable model. As part of the course requirements, each group will develop a series of documents to record the entire design process. At the conclusion of the full-year course, each group will present their research highlights and solutions to a group of faculty members, professionals, and community members.

PLTW | Engineering



ENGLISH COURSE DESCRIPTIONS (EC)

Department Chair: Josh Surface, surfacej@centergrove.k12.in.us

Curriculum for the required English classes is based on the Indiana Standards from the Department of Education. In order to earn the 8 required English credits for graduation, students must pass the appropriate semesters of each grade level class. It is important that the student, along with parents and counselors, decide what would be the most effective course of study commensurate with the student's ability and career goals.

All students will take eight semesters of required English classes, which align with the Indiana Department of Education standards:

YEAR	COURSE
9 th Grade	(2) semesters of English 9 or Pre-AP Honors English 9
10 th Grade	(2) semesters of English 10 or Pre-AP Honors English 10
11 th Grade	(2) semesters of English 11 or AP English 11
12 th Grade	(1) semester of W131 and a semester of ACP L202; OR (2) two semesters of AP English 12; OR (3) a semester of senior composition and a semester of an approved literature course; OR (4) two semesters of English 12.

Students in grades 10-12 may choose from the following Academic Electives:

- Advanced Speech (11/12 only)
- Creative Writing (11/12 only) Global Campus

- Dramatic Literature
- Etymology
- Journalism
- Sports Literature
- Sci-Fi Literature
- Themes in Literature: Cultures and Perspectives Through Literature
- Themes in Literature: Mythology
- Themes in Literature: Shakespeare
- Twentieth Century Literature
- Advanced Grammar

Students in grades 9-12 may choose from the following Application Elective: (these courses require an application and teacher approval)

- Media Arts
- Advanced Media Arts

Students should consider taking the following English courses if you are interested in:

Business, Management & Marketing	Required English courses, Adv. Speech, Media Arts, Cultures and Perspectives Through Literature
Education & Human Services	Required English courses, Adv. Speech, Themes in Literature: Shakespeare, Themes in Literature: Mythology, Cultures and Perspectives Through Literature
Engineering & Technology	Required English courses
Manufacturing & Construction	Required English courses
Fine Arts, Design & Communications	Required English courses, Adv. Speech, Creative Writing, Journalism, Themes in Literature: Shakespeare, Dramatic Literature, Themes in Literature: Mythology, Media Art, Cultures and Perspectives Through Literature
Health Services	Required English courses, Etymology
Legal & Government	Required English courses, Adv. Speech, Cultures and Perspectives Through Literature, Etymology, and Journalism

ELA Courses:

Dramatic Literature (1028)

CGHS Course #: EN231

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No

Dual Credit: No

Prerequisite(s): none

This course is an introduction to theatre and drama. It focuses on the basic skills of acting and theater management, including pantomime, stage presence, character development, and performing as an ensemble. Students will perform several memorized scenes in front of the class, direct a one-act play, create a promptbook, and study several well-known playwrights. The students will spend several hours beyond class time to plan shows and do research.

English as a New Language (ENL): Level 1 (1012)

Grade Level: 9, 10, 11, 12

CGHS Course #: EN011

Length: 2 Semesters

Credit(s): Two

Weighted Course: No

Dual Credit: No

Prerequisite(s): Students with limited English proficiency only.

This course provides Limited English Proficiency (LEP) students with instruction in English, which would improve their proficiency in listening, speaking, reading, and writing in English. Emphasis is placed on helping students to function within the regular school setting and within an English-speaking society. It is designed for students whose primary language is not English and whose

English skills are rated low on the prescribed test. This course follows Indiana Academic Standards.

Creative Writing (1092)

CGHS Course #: EN351

Grade Level: 11, 12

DOE Course #: 1092

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): Junior or Senior Status

Creative writing is only offered online, and it is based on Indiana's Academic Standards for English/Language Arts with an emphasis on written expression. Course goals include the study, exploration, and application of various genres of creative writing including prose, such as short stories, children's books, and autobiography/memoir, as well as multiple forms of poetry. Students will study a variety of writing forms used by professional writers in order to create their own, original creative writing pieces. Students will also engage in collaborative writing practices including peer editing and review in an online Writer's Workshop. Throughout this course, students will create, edit, revise, and publish the following: a digital media children's book, a short story, a variety of poems, and an audio-visual PechaKucha memoir. Students should expect to spend 6-8 hours per week on their coursework, and they should be motivated and able to work independently since this is an online, rather than a face-to-face course. It is also assumed that students enrolled in this elective enjoy writing and do not mind spending a significant amount of their course time on writing. Interested students should speak to their counselors about the Global Campus program before signing up for this course.

English 9 (1002)

CGHS Course #: EN111

Grade Level: 9

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): None

English 9 explores ideas of responsibility (to our environment, to our fellow humans, to our families and others we care about, and to ourselves) through analysis of fiction and nonfiction texts. Utilizing the writing process, students will write compositions (including paragraphs, essays, journals, presentations, and reports) that argue, narrate, analyze and present research. Vocabulary and grammar study will enhance writing instruction. Students will read, research, and present their work using various technologies. Essays, projects, homework, quizzes, and unit tests will be part of the evaluation process.

English 9 (Honors Pre-AP) (1002)

CGHS Course #: EN121

Grade Level: 9

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual credit: No

Prerequisite(s): Freshman Status and B or better in MS Honors English or A- or better in MS Regular English with MS teacher recommendation.

This accelerated course is for superior English students who demonstrate advanced abilities in reading, analysis, and composition as indicated by standardized test scores, grades in various middle school classes, and their middle school team's recommendation of their ability to handle academic challenges. In this integrated literature, composition, and grammar course, students will read an anthology of classical and modern literature including a novel, a play, poetry, short stories, and nonfiction. Students will compose a variety of written assignments, take comprehensive vocabulary tests, and have several presentation opportunities. *All students are expected to complete the summer reading assignment by the time they begin school. See Summer Reading Information at the beginning of this section for the location of the assignments. Students may be required to purchase a novel for a class assignment.*

English 10 (1004)

CGHS Course #: EN211

Grade Level: 10

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): English 9

English 10 is both a continuation and an enrichment of the concepts studied in English 9. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance appropriate for Grade 10 in classic and contemporary literature balanced with nonfiction. Citing textual evidence to support answers, thinking, and analysis is a key to all aspects of reading literature and nonfiction in English 10. Using the writing process, students will read, analyze, and produce narrative, responses to literature, expository and argumentative/persuasive compositions, research reports, and descriptive writings. Students will be expected to apply Standard English conventions, such as grammar, mechanics, and manuscript form. The writings and projects conducted in this course will be supported by research and technology to employ and enhance 21st Century Skills.

English 10 Honors (Pre-AP) (1004)

CGHS Course #: EN221

Grade Level: 10

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual credit: No

Prerequisite(s): Honors English 9 or English 9 with teacher recommendation

Honors English 10 is geared toward students who have accelerated language skills and a positive, self-motivated work ethic. Students who take this course should be detail-oriented critical thinkers, close readers, and developing writers with the desire to improve their English skills. The content includes all of

the language arts: literature and nonfiction reading and analysis, composition in a variety of styles and forms, research, vocabulary study, effective speaking, and grammar. The class includes in-depth study of classic and modern American literature. Students should come to the class with a working knowledge of literary genres, composition techniques, and fundamentals of grammar. Projects in the class involve a variety of independent and collaborative activities. *All students are expected to complete the summer reading assignment by the time they begin school. The summer reading assignment will be posted and distributed at the end of each school year. Any students who move into this course at the beginning of the school year are not exempt from the summer reading project; they will still be required to complete it with an extended deadline decided upon by the teacher.*

English 11 (1006)

CGHS Course #: EN311

Grade Level: 11

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Junior Status

English 11 is a chronological study of the language and literature of American writers with a continued emphasis and focus on both reading comprehension and composition skills as well as SAT vocabulary strategies. Each of the quarters builds upon concepts learned in previous quarters, and students read and analyze a variety of representative fiction and nonfiction works of historical or cultural significance from different time periods within the context of American history. Classic and contemporary pieces are intermixed, creating a synthesis of universal themes that students can explore from quarter to quarter. Students will write narrative, synthesis, informative, research, and expository papers, as well as responses to literature and reflective compositions. Throughout the year, students will also learn strategies to help prepare them to take the SAT or ACT. Students enrolled in this course can expect challenging reading and writing assignments which will help them prepare for post-secondary education.

English 12 (1008)

CGHS Course #: EN

Department: English

Grade Level: 12

Length of Course: 2 Semester

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): English 9, 10, & 11

This course will blend reading and writing components that meet the English 12 state standards. Materials meant to be engaging and high interest. This course will focus on real world skill applications that will better prepare you for the workplace, military, or community college program. This course will focus on technical writing, vocabulary development, and speaking and presentation skills.

*Please know that if your plans are to attend a post-secondary school, you should take world literature and senior composition or any other senior level English courses.

Themes in Literature: Culture and Perspectives Through Literature (1032)

CGHS Course #: EN

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual credit: No

Prerequisite(s): Grades 10-12

This course will build on the foundation of the skills acquired in previous courses in order to reflect on society further explore the internal and external conflicts of human nature. Through the examination of novels, essays, short stories, and articles, students will consider and analyze problems in society and culture that have a lasting impact on how we shape the future through various forms of writing, projects, and discussions. A wide array of reading and writing skills/standards along with 21st Century Skills will be employed in order to provide a guaranteed and viable curriculum. Please refer to the IDOE for a detailed list of the Indiana State Standards.

Etymology (1060)

GHS Course #: EN241

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): Grade 10-12

Etymology is designed to enhance a student's vocabulary through a study of Greek and Latin roots, prefixes, and suffixes, as well as their English derivatives. The course requires extensive memorization in addition to other vocabulary activities. Students' also complete and present word related projects.

Genres of Literature: Sci-Fi (1036)

CGHS Course #: EN291

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): None

This course will build on the foundation of the skills acquired in previous courses in order to reflect science fiction as a social commentary and to further explore the internal and external conflicts of human nature. Through the examination of novels, essays, short stories, and articles, students will consider and analyze problems in society and culture that have a lasting impact on how we shape the future through various forms of writing, projects, and discussions. A wide array of reading and writing skills/standards along with 21st Century Skills will be employed in order to provide a guaranteed and viable curriculum.

Journalism (1080)

CGHS Course #: EN251

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): None

The course will provide students with intensive training in journalistic writing and style as well as a working knowledge of a journalist's responsibility. This course is primarily a writing class, so students should already have a good grasp of basic writing skills such as spelling, punctuation, and sentence structure. Students interested in working on CG Publications and/or pursuing a career in communications beyond high school are strongly encouraged to take this course.

Senior Composition (1090)

CGHS Course #: EN413

Grade Level: 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): Senior Status

In this intensive writing course, students will study and produce higher order strategies to plan, develop, write, revise, and edit a wide variety of written work that satisfies various purposes and appeals for both specific and diverse audiences. Reading, writing, and discussion will comprise the bulk of daily coursework. Successful development and completion of writing assignments will determine most of the course grade. Specific assignment purposes may include analytical, narrative, informative, expository, rhetorical, research, and persuasive writing. Most assignments will include use of source material provided and/or independent or supervised research. It is assumed that students enrolled in this course are planning to attend university after high school. To that effect, writing assignments will be college preparatory in nature and will reflect the kinds of skills students will need in university courses.

Student Media: Publications (1086)

CGHS Course #: EN501

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): None

CG Publications is a converged newsroom where students report on events and people at Center Grove High School through a variety of media platforms including news magazine, yearbook, CGTV broadcasts, a website, and social media. This program provides not only skills such as video editing, writing, internet publishing, social media marketing, but it will also emphasize problem-solving abilities, collaboration experience, and deadline work. Students are required to sell advertising, conduct interviews, write news/feature stories, compose headlines; cover school events and people professionally, organize and/or take pictures and/or video, and attend occasional meetings, games,

and/or events that take place outside the school day. Adviser selection will be based on application, teacher recommendations, and student work samples. A staff member should be an above-average student who is ready to take on responsibility and work beyond the minimum requirements to be part of the staff effort to produce the highest quality of journalism possible.

Student Media: Advanced Publications (1086)

CGHS Course #: EN502

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Teacher recommendation and completion of Student Media: Publications.

CG Publications is a converged newsroom where students report on events and people at Center Grove High School through a variety of media platforms including news magazine, yearbook, CGTV broadcasts, a website, and social media. This program provides not only skills such as video editing, writing, internet publishing, social media marketing, but it will also emphasize problem-solving abilities, collaboration experience, and deadline work. Students are required to sell advertising, conduct interviews, write news/feature stories, compose headlines; cover school events and people professionally, organize and/or take pictures and/or video, and attend occasional meetings, games, and/or events that take place outside the school day. Adviser selection will be based on application, teacher recommendations, and student work samples. A staff member should be an above-average student who is ready to take on responsibility and work beyond the minimum requirements to be part of the staff effort to produce the highest quality of journalism possible.

Themes in Literature: Mythology (1048)

CGHS Course #: EN261

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Recommended Lexile: N/A

Weighted Course: No Dual Credit: No

Prerequisite(s): Grades 10-12

Mythology is designed to introduce the student to various cultures by exploring their mythology and folklore. Students will study mythology and folklore in every hemisphere through various mediums containing historical, cultural, and societal aspects relevant to the past and present. Projects, writings, and research will focus on the cultural and societal influences of mythology across the timeline of humanity through art, literature, and other forms of media.

Themes in Literature: Shakespeare (1048)

Department: English

Grade Level: 10, 11, 12

CGHS Course #: EN271

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No
Prerequisite(s): None

This course is designed to familiarize the student with the language and ideas of Shakespearean drama through reading, analysis, and performance. Possible plays to be studied will be *Much Ado About Nothing*, *Othello*, *Midsummer Night's Dream*, *Taming of the Shrew*, *The Merchant of Venice*, *The Tempest*, *Richard III*, and *Henry V*. The students will organize and present scenes from selected plays in addition to analyzing various texts and performances.

Film Literature (1034)

Department: English
Grade Level: 12
CGHS Course # EN380
Length: 1 semester
Credit(s): One
Weighted Course: No Dual Credit: No
Prerequisite (s):

Film Literature, a course based on the Indiana Academic Standards for English/Language Arts, is a study of how literature is adapted for film or media and includes role playing as film directors for selected screen scenes. Students read about the history of film, the reflection or influence of film on the culture, and issues of interpretation, production and adaptation. Students examine the visual interpretation of literary techniques and auditory language in film and the limitations or special capacities of film versus text to present a literary work. Students analyze how films portray the human condition and the roles of men and women and the various ethnic or cultural minorities in the past and present.

Themes in Literature: Sports Literature (1048)

CGHS Course #: EN252
Grade Level: 11, 12
Length: 1 Semester
Credit(s): One
Weighted Course: No Dual Credit: No
Prerequisite(s): None

"Sports have the power to transcend culture, nationality, religion, values...in short, differences of all kinds. It breaks down barriers and builds bridges." –Mark Tewksbury

Sports Literature is a Language Arts class that will examine the unique relationship between sports and society through literature by contemporary authors, columnists, and other media. Reading in the course is selected to be high-interest and thought-provoking. Students will be responsible for reading two whole-class books (*Into Thin Air* and *Wooden: A Lifetime of Observations and Reflections On and Off the Court*) and an independent book of their choosing. Text selections will include fiction, informational text, poetry, biographies, and commentary. Alternative and visual media (documentaries, movies, and photographs) will be used as well. Writing in this course will include argument, informative, and narrative pieces. Students who take this class should be prepared to regularly contribute to

and participate in classroom discussions and Socratic seminars.

Twentieth-Century Literature (1050)

CGHS Course #: EN281
Grade Level: 10, 11, 12
Length: 1 Semester
Credit(s): One
Recommended Lexile: minimum of 1400
Weighted Course: No Dual Credit: No
Prerequisite(s): none

This survey course is designed to acquaint the college-bound student with various poetry, fiction, and nonfiction selections recognized as noteworthy in the 20th Century. Students will study a variety of themes, literary periods, and authors' styles and will have some choice in selecting material. In addition to reading, students will write analyses of literature, research author and time period information, and give oral and written presentations.

Dystopian Literature (1052)

Grade Level: 12
CGHS Course #: EN411
Length: 1 Semester
Credit(s): One
Weighted Course: No Dual Credit: No
Prerequisite(s): Senior status

Dystopian literature is literature in which there exists an imagined state or society where there is great suffering or injustice. In this course, students will study a variety of dystopian stories including films, videos, short stories, and novels. Possible themes studied will be the use of media, education, brainwashing, fear, and violence to control a human population. Writing activities and speaking opportunities will focus on literary analysis. In this college preparatory class, students should expect intensive reading as they continue to develop critical thinking and an appreciation of literature. ++Also offered via Global Campus

Advanced Grammar

CGHS Course #: EN
Grade Levels: 10-12
Length: 1 Semester
Credit(s): One
Weighted Course: No Dual Credit: No
Prerequisite(s): None

This course is an English grammar course for students who have a solid understanding of basic grammar concepts. It builds on foundational skills and explores the definitions and functions of all parts of speech and parts of a sentence, reinforces mechanics, and enhances understanding of verb tenses and moods. Students learn grammatical terminology, study grammar in the context of reading and writing, and apply grammatical concepts in writing and speaking.

Advanced Placement Language and Composition (1056)

CGHS Course #: EN321

Grade Level: 11

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Honors English 9 and Honors English 10 OR teacher recommendation

This is a challenging course, and it is recommended that students enrolling in it have completed both honor English 9 and honors English 10. Students coming from regular English 10 should have a solid recommendation from their English 10 teacher and discuss the course with the AP 11 instructor before enrolling. The course overview and objectives for the course are taken from collaboration with other AP teachers, facilitators, and instructors of various AP institutes and workshops, and ultimately, the AP English Course Description published by the College Board. The purpose of this course is to develop critical reading and writing skills necessary to sound academic practices and habits. Reflecting College Board standards for Advanced Placement, students are expected to develop and demonstrate a sophisticated and mature grasp of the complexities of non-fiction texts, including contemporary and pre-20th Century texts. It is assumed that students enrolling AP English Language and Composition will take the Advanced Placement Language and Composition test in May and will actively prepare for it. Performance on the test usually validates efforts in class, but it does not influence the final grade in the course. A course audit of the entire school year prepared for the College Board and is available for review upon request. The deadline to request a drop for this course is May 1st of the sophomore year. Requests to drop made after that date may be deferred to spring semester.

Advanced Placement Literature and Composition (1058)

CGHS Course #: EN421

Grade Level: 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Honors English 9 and Honors English 10, AP 11 OR teacher recommendation

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. Students will hone their critical reading, writing, and thinking skills through an in-depth study of 7-8 masterworks including plays, novels, and a wide-variety of poetry. The deadline to request a drop for this course is May 1st of the junior year. Requests to drop made after that date may be deferred to spring semester.

Advanced Speech and Communication (1078)

CGHS Course #: EN341

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: Yes

Prerequisite(s): EC students; ICC students need 2.7 GPA, specific PSAT/ACT score, and VU application

This elective introduces fundamental concepts and skills for effective public speaking, including audience analysis, outlining, research, delivery, critical listening and evaluation, and the use of visual aids/technology. This course is a transferIN course, and it is open to any student (not only Early College program students) seeking dual-credit

FAMILY & CONSUMER SCIENCE COURSE DESCRIPTIONS (FC)

Department Chair: Carol Galyan, galyanc@centergrove.k12.in.us

The Family and Consumer Sciences department offers CTE yearlong pathway courses (Next Level Program of Study) and additional elective courses. Our pathway courses include Culinary Arts, Interior Design, Fashion & Textiles, Human Services, and Early Childhood Education. In these courses, students will develop the skills necessary to advance in their chosen pathway by enrolling in and eventually completing a Next Level Program of Study. This will allow students to meet their graduation requirement and be equipped for postsecondary education and career success. Additional elective classes teach students necessary life skills which include Adult Roles and Responsibilities, Interpersonal Relationships, and Cadet Teaching.



CULINARY ARTS

Culinary I: Principles of Culinary and Hospitality (7173)

CGHS Course #: FC211
Grade Level: 9, 10, 11, 12
Length: 2 Semester
Credit(s): Two



Weighted Course: No Dual Credit: No
Prerequisite(s): None

Have you ever thought about working in the professional food and hospitality industry? Principles of Culinary and Hospitality is designed for you to develop an understanding of the hospitality industry and career opportunities, as well as roles and responsibilities in the food service industry. Additionally, you will get some experience in the kitchen through basic culinary skills such as equipment identification, appropriate usage of kitchen tools, knife skills, hands-on cooking experience, and more! Various dishes prepared in this course include mac 'n cheese, biscuits and gravy, breakfast burritos, homemade chicken nuggets, cookies, and cheddar bay biscuits. This course will help you learn basic principles of sanitation and safety in order to maintain a safe and healthy food service environment. You can expect to gain experience in the kitchen, while comprehending the culinary and hospitality industry on a deeper level.

Culinary 2: Principles of Culinary and Hospitality-Nutrition (7171)

CGHS Course #: FC231
Grade Level: 10, 11, 12
Length: 2 Semester
Credit(s): Two



Weighted Course: No Dual Credit: No
Prerequisite(s): **Culinary 1**

Food Theory & Nutrition students will learn the fundamentals of food preparation, service procedures, and safety practices in the food service industry including proper operation techniques for equipment. This course also provides a background and history of the hospitality industry and introduces the student to the broad spectrum of hospitality/food service organizations and career opportunities. Students will be familiarized with the organizational structure and basic functions of departments. Additionally, this course introduces the characteristics, functions and food sources of the major nutrient groups and how to maximize nutrient retention in food preparation and storage. Students will be made aware of nutrient needs throughout the life cycle and to apply those principles to menu planning and food preparation. Prereq(s)/CoReq(s)- Principles of Culinary and Hospitality credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum

Culinary 3: Principles of Culinary and Hospitality-Culinary (7169)

CGHS Course #: FC221
Grade Level: 11, 12
Length: 2 Semester
Credit(s): Two



Weighted Course: No Dual Credit: No
Prerequisite(s): **Culinary 1, Culinary 2**

Culinary Arts is designed to teach the necessary skills for proper recruiting, staffing, training, and management of employees at various levels. The course will help prepare the student for the transition from employee to supervisor. It will help the student evaluate styles of leadership and develop skills in human relations and personnel management. This course will also present fundamentals of baking science, terminology, ingredients, weights and measures, and proper use and care of equipment. Students will also learn a lot about food theory and advanced culinary techniques. They will learn how to do recipe substitutions to make recipes more nutritious or meet a variety of dietary needs. Students will produce yeast goods, pies, cakes, cookies, and quick breads. Students will take a deep understanding of sanitation and will take the ServSafe Sanitation

Exam for a nationally recognized certification. Prereq(s)/CoReq(s)
Principles of Culinary and Hospitality credits: 2 semester course,
2 semesters required, 1 credit per semester, 2 credits maximum

INTERIOR DESIGN



Principles of Interior Design (7132) (Housing & Interior Design I)

CGHS Course #: FC303

Grade Level: 9, 10, 11, 12 Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): None



Are you addicted to HGTV? Do you want to learn some of the techniques you see on TV? This is a great class to learn how to make the most out of your space, identify housing trends with a fun hands-on approach. In this class we do projects to learn first-hand different styles of housing. You will design your own home, make an interior design board for specific rooms, all using color theory, schemes and properties. Architectural history is also included in this house. You will also learn a variety things about being an entrepreneur in the business world using the skills you learned with elements and principles of design?

Interior Design Fundamentals (7127) (Housing & Interior Design II)

CGHS Course #: FC

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Principles of Interior Design FC303

Did you LOVE Intro to Housing and Interior Design? In this advanced class we do a wide variety of small projects. They include small scale space analysis and functional planning based on user needs, furniture arrangement and selection, materials and finish considerations as well as presentation techniques.

Students will also learn basics regarding building practices, building structures, residential construction techniques, building materials and plan reading. Some of the other projects we will be doing will include upcycling, using upholstery, small business practices and much more.

FASHION & TEXTILES

Fashion I (0410)

Principles of Fashion Pathway

CGHS Course #: FC105

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): None



Do you want to learn how to make your own clothing, design paper dresses & make your own embroidery creations? Principles of Fashion and Textiles is the first course in the Fashion pathway. Along with learning to sew, you will learn about the elements & principles of design, how to draw a croquis, learn about the history of fashion and make a Barbie Fashion Museum. This course builds a foundation that will prepare you for all aspects of the fashion creation process. You will be responsible for the expense of fabric and notions.

Fashion II

(Textiles, Apparel, and Merchandising)

Principles of Fashion Pathway

CGHS Course #: FC106

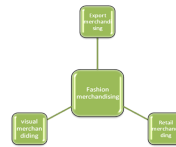
Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Principles of Fashion I



Principles of Fashion II will prepare you to make your own designed garments. Imagine making your own mens tuxedo type jacket or your own prom dress! You will also learn about occupations and higher education programs of study related to the entire spectrum of careers in the fashion industry. This course provides a comprehensive overview of the textiles, apparel and merchandising specific to fashion-related goods including the nature of fashion, raw materials and production, designers, retailers, and supporting services. Exploration of the evolution of clothing from ancient times to the twentieth century, emphasizing on the representation of style and its change over time. Major topics include trend forecasting, fashion illustration, fit analysis, and garment construction. Students will complete their own designed garments. Students are responsible for the expense of their own patterns, fabric and notions.

HUMAN SERVICES

Principles of Human Services (7176)

CGHS Course #: FC331
Grade Level: 9, 10, 11, 12
Length: 2 Semesters
Credit(s): Two



Weighted Course: No Dual Credit: No
Prerequisite(s): None

Calling all students who have a passion for helping people! Principles of Human Services examines the history of human services, the development of the human service worker, and career opportunities in the field. The course begins with learning about yourself. You will discover your own strengths and weaknesses through analyzing interpersonal skills and personal characteristics needed to interact effectively with individuals and families. As we say in this class, you can't help others until you know how to help yourself! This course will also provide you with the space to explore the roles and range of services provided by a human service worker and create an ePortfolio comparing careers and salary ranges in the field. The best part of this course is the service learning projects because you will see first hand the value of helping others! Some projects may include a meal packing field trip to feed the hungry, tying blankets for Project Linus, crafting cards for veterans and senior citizens, baking goods for service workers, sponsoring a family in need, helping with Special Olympics, and promoting the Pay it Forward movement. By the end of this course, you will understand the relationship between humans and how the right resources and support can help people live their best life!

Understanding Diversity (7174)

CGHS Course #: FC421
Grade Level: 10, 11, 12
Length: 2 Semester
Credit(s): Two

Weighted Course: No Dual Credit: No
Prerequisite(s): Principles of Human Services (7176) CGHS
Course #: FC331

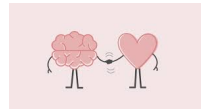
Our world is a kaleidoscope of cultures. What is culture? Where does one end and another begin? How are we culturally diverse, yet unified in humanity? Are we divided? Should we be? Do we really know our neighbors next door and around the world? Why



does cultural heritage and diversity matter? In Understanding Diversity we take a look at the world around us and discover how we are impacted and influenced by the richness of cultural diversity. How are we different? How are we the same? And, most importantly, how can we better know and understand each other? Discover the contributions of various cultures while developing culturally sensitive interpersonal and communication skills necessary to successfully engage in today's blended neighborhoods and workplaces.

Relationships and Emotions (7177)

CGHS Course #: FC431
Grade Level: 11, 12
Length: 2 Semester
Credit(s): Two



Weighted Course: No Dual Credit: No
Prerequisite(s): Principles of Human Services (7176) CGHS
Course #: FC331
Understanding Diversity (7174) CGHS Course #: FC421

What motivates you? Why are you the person you have become? Why do others respond the way they do? What causes breakdowns in relationships? Relationships and Emotions is a 2-semester journey to discover the key elements of healthy relationships in friendships, romantic relationships and professional relationships. Gain a better understanding of yourself, the origins of your communication patterns, and sharpen your skills to be a more capable and effective communicator. Class topics expose the links between communication and personality types, self-esteem and confidence. We will study our past experiences, learnings, and coping strategies in relation to our future success. Effective conflict resolution strategies will be discussed and practiced for both personal and professional relationships. Additionally, students will learn to more effectively deal with emotions, stress, disappointments, grief and loss and to develop empathy for the struggles of others. Grow into a more powerful and effective version of yourself with skills learned in Relationships and Emotions!

EARLY CHILDHOOD EDUCATION

Principals of Early Childhood Education

CGHS Course #: FC482
Grade Level: 9,10, 11, 12
Length: 2 Semester
Credit(s): Two



Weighted Course: No Dual Credit: No
Prerequisite(s): None

Do you love kids? Do you plan to be a parent one day in the future? Do you want to work with children in your career of choice? If you answered yes to any of these questions, then this is the pathway for you! Principles of Early Childhood provides an overview of the history, theory, and foundations of early childhood education as well as exposure to types of programs, curricula and services available to young children. This course

examines child development beginning with conception, pregnancy and childbirth, infancy, and ending with elementary aged children. The importance of family, licensing, and elements of quality care of young children will be discussed with an emphasis on their environment related to health, safety, and nutrition. This course takes a hands-on approach to learn the physical, social, intellectual, moral and cultural development of young children. Lots of fun projects enhance the course experience including egg babies, parenting 101 stations, nature versus nurture debate, family structures project, pregnancy brochure, guest speakers from the community, observations, field experiences, and the chance to care for an infant simulator with the Real Care Baby experience!



ELECTIVES

***Not part of the NLPS Pathways**

Adult Roles and Responsibilities: Adulting 101 (5330)



CGHS Course #: FC305

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Do you need to learn how to adult? Making the transition to living independently can be exciting and a bit scary. What knowledge do you need to learn in order to have a successful transition from living dependently, with your family, to living on your own? This course is designed for you! The management and the decision making process will be applied to the areas of career choice and earning potential, budgeting and money management, housing choices, consumerism, and time and money management in the kitchen. You will participate in lots of hands-on projects including vision boards, trees of life, decision-making timelines, 30 minute meals, Indiana career explorer, spending plans, \$5 meals, buy a car posters, apartment webquest, microwaveable meals, design a dorm room, sew a button, and motivational bulletin boards, and self care activities. Experts in various fields including financial advisors, business managers, college advisors, realtors, car dealership sales managers, insurance agents, and safety officers will help enhance your adulting experience.

Interpersonal Relationships (5364)

CGHS Course #: FC101

Grade Level: 9, 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Do you ever wonder why you are the way you are? How have your family, friends and life experiences impacted the person you are becoming? What knowledge will help you to have successful healthy and happy relationships? Interpersonal Relationships is a one-semester class introductory course that is especially relevant in helping teens to better understand themselves and the world around them. This course is also recommended for students interested in careers that involve interacting with people. A portfolio is created and required which features exploration and learning about one's own development. Major course topics include development in the following areas: personality, self-esteem, character development, values, standards, goals, communication, conflict, stress, healthy and unhealthy relationships, and the influences of our family structures and dynamics.



Cadet Teaching (5404)

CGHS Course #: FC481G

Grade Level: 11,12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Requirements: GPA: "C" or higher, ability to provide own transportation preferred, parent permission, and application required.

Do you enjoy working with children? Have you thought about becoming a teacher? The course, Cadet Teaching, allows you to explore both of these as you work in an elementary or middle school classroom with a cooperating teacher. This hands-on experience allows you the opportunity to delve into the career of a teacher including planning lessons, designing a future classroom, teaching individual, small group or whole class lessons, and implementing effective teaching and classroom management strategies. Course activities include but are not limited to: writing and implementing developmentally appropriate lesson plans and incorporating local, state, and national educational standards, conducting and analyzing teacher and student observations, creating a classroom management plan, and writing a teaching philosophy. In addition, a digital portfolio will be created to showcase the students' performance and standards met over the course of the year.

MATHEMATICS COURSE DESCRIPTIONS (EC)

Department Chair: Amy Wingler, winglera@centergrove.k12.in.us

NOTE: Six credits of mathematics taken in the high school setting are required for graduation. Each year of the three-year requirement must be met by completing BOTH semesters of the SAME course, i.e. one year of Algebra I and then one semester of Geometry and one semester of Algebra II WILL NOT MEET THE GRADUATION REQUIREMENT IN MATH.

RECOMMENDATIONS FOR MATH CLASSES

Math teachers recommend to the student the class to take the following year. The recommendation is based on the student performance in the current class and the expectations in the following classes. These recommendations are noted on the student's scheduling form. Students and parents must realize that changing a class after the school year begins is unlikely if the recommendation of the mathematics teacher is not followed or the student is not working to their ability.

CALCULATOR POLICY

The recommendation or requirement of a scientific calculator means a model TI-30XIIS or above; a graphing Calculator means TI-83+ silver edition, TI-84, or TI-84 CE (color edition). The TI-83+ silver edition runs approximately \$100. (A graphing calculator is also scientific.) A limited number of graphing calculators may be rented from the math department for \$40. The use of calculators and the type of calculator on assessments is left up to the discretion of the teacher, (i.e. if a teacher is testing over graphing, a graphing calculator will not be allowed.) TI-86, TI-89 or equivalent calculators may not be used on tests in the math classes at Center Grove High School.

****Special Note**** Core 40 Diploma: Students must take a math or quantitative reasoning course each year in high school and receive credits in Algebra I, Geometry and Algebra II.

Students should consider taking the following Math courses if you are interested in:

Business, Management & Marketing	Algebra I, II, Geometry, Statistics, Finite Math, Pre-Calculus, Calculus
Education & Human Services	Algebra I, II, Geometry, Statistics
Engineering & Technology	Algebra I, II, Geometry, Pre-Calculus, Calculus
Manufacturing & Construction	Algebra I, II, Geometry, Pre-Calculus, Calculus
Fine Arts, Design & Communications	Algebra I, II, Geometry, Statistics
Health Services	Algebra I, II, Geometry, Finite, Pre-Calculus, Calculus
Legal & Government	Algebra I, II, Geometry, Statistics
Natural Science & Resource Management	Algebra I, II, Geometry, Finite

Algebra I (2520)

CGHS Course #: MA101

Grade Level: 9

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Freshman Status

This is a full year course and will focus on these essential learning (EL's) skills:

- Generate equivalent rational expressions
- Manipulate expressions involving positive and negative exponents
- Write an algebraic expression to represent the information presented in a real-world problem

- Interpret expressions by identifying the dependent and independent variables
- Add, subtract, and simplify polynomials
- Multiply polynomials and factor out the greatest common factor
- Factor second-degree expressions with a leading coefficient of 1 by trial and error and recognizing a difference of squares or the square of a binomial
- Solve equations and inequalities in one variable
- Generating Equations in two or more variables to represent situations involving relationships between quantities
- Graph linear equations and inequalities on a coordinate plane
- Generate systems of equations and/or inequalities to model real-world situations

- Solve systems of equations and inequalities
- Determine whether a functional relationship exists between two variables
- Interpret function notation and graphs that describe various types of functional relationships
- Evaluate functions expressed using function notation to solve real-world problems
- Solve quadratic equations or functions in one variable with any leading coefficient
- Graph quadratic equations and functions on a coordinate plane

A scientific calculator is recommended for this course. Please refer to our math calculator policy at the beginning of the math course description.

$$14\sqrt{x} + 15 = 71$$

Algebra I Lab (2516)

CGHS Course #: MA103

Grade Level: 9

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Teacher and Counselor recommendation

Algebra I Lab is a mathematics support course for Algebra I taken simultaneously with Algebra I. The course provides students with additional time to build the foundations necessary for high school math courses. The students will work on Algebra I topics being taught in their Algebra I classes using different teaching strategies and technology.

Business Math (4512)

Grade Level: 11, 12

CGHS Course #: MA105

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Algebra 1

This course will focus on math in the real world. You will use the concepts of this course throughout your life. It will teach you how to use math to solve problems related to payroll, taxes, interest, debt, savings, budgets, and money management. The goal is to master the content and provide the resources for you to deal with your personal financial issues. Another goal of this course is to make you a better problem solver, which is what managers are looking to hire. A solid understanding of foundational math skills, basic algebra and statistics are necessary for successful completion of this course.

Honors Algebra I (2520)

CGHS Course #: MA141

Grade Level: 9

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Recommended: A or B in Honors 8th grade math

Honors Algebra I will cover all the concepts and essential skills covered in Algebra I. The course is more theory oriented, and therefore, will require less drill but more reasoning. The difficulty of problems will be greater than those in the regular Algebra I course. A scientific calculator is recommended for this course. Please refer to our math calculator policy at the beginning of the math course description.

Algebra II (2522)

CGHS Course #: MA201

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Recommended: At least a C- in both semesters of Algebra I

Algebra II is a full year course that expands on the topics of Algebra I and provides further development of the concept of a function. The Essential Learnings of the course are as follows: Simplify, solve and graph rational equations, simplify and evaluate fractional exponents, multiplying and dividing polynomial expressions, solve quadratic equations, graph quadratic functions on a coordinate plane, manipulate complex numbers, graph piecewise and absolute value functions, graph and solve exponential functions graph and solve radical functions, graph and solve logarithmic functions. Problem solving emphasizing practical applications of Algebra will be explored through a variety of problem-solving techniques. Scientific Calculators will be integrated into this course throughout the year. Please refer to our math calculator policy at the beginning of the math course description.

Analytical Algebra II (2524)

CGHS Course #: MA205

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite: Algebra 1

Recommended: Any grade lower than a C- in Algebra 1

Analytical Algebra II builds on previous work with linear, quadratic, and exponential functions and extends to include polynomial, rational, radical, logarithmic, and other functions. Analytical Algebra II focuses on the applications of mathematics in various disciplines including business, finance, science, career and technical education, and social sciences using technology to model real-world problems with various functions.

This course will not prepare students for PreCalculus/Trigonometry.

Analytical Algebra II may affect the student's ability to attend a particular-post-secondary educational institution because it does not align with academic requirements by the post-secondary educational institution.

A permission slip to enroll is required. This can be obtained from the student's guidance counselor.

Algebra II (Honors*) (2522)

CGHS Course #: MA241

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Recommended: B- average in HONORS Algebra I

This course is designed to further investigate the underlying premises that form the structure of mathematics. All topics covered in Algebra II will be covered, but in greater depth, and more advanced topics will be studied, including Conic sections and Trigonometry. A graphing calculator is required. Please refer to our calculator policy at the beginning of the math course descriptions.

Geometry (2532)

Grade Level: 11, 12

CGHS Course #: MA301

DOE Course #: 2532

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Algebra 1 and

Algebra 2

Good thinking and study skills are necessary to be successful in Geometry. This is a full year course and will focus on these essential learning (EL's) skills:

- Prove properties of the sides, angles, and diagonals of parallelograms.
- Determine the location of the midpoint of a line segment and the distance between the endpoints
- Recognize Angle Relationships
- Describe the relationships between lines, line segments, angles and arcs of a circle
- Trigonometry.
- Calculate the volume and surface area of three-dimensional figures.
- Constructions
- Triangle Congruence
- Transformations

**A scientific calculator is required for this course. Please refer to our calculator policy at the beginning of the math course description.

Geometry (Honors) (2532)

CGHS Course #: MA341

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Honors Algebra II along with a teacher recommendation

Honors Geometry will contain all of the Essential Learnings of regular Geometry. The course is more theory oriented, and, therefore, the exercises will require less drill but more reasoning. The difficulty of problems will be greater than those in the regular Geometry course. There will be more emphasis placed on logic and geometric reasoning. A scientific calculator or graphing calculator is required for this course. Please refer to the

course calculator policy at the beginning of the math course descriptions.

Pre-Calculus (2564)

CGHS Course #: MA401

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Recommended: A's/B's in Geometry AND Algebra 2

In this class students will learn how to:

- Manipulate expressions involving positive and negative rational exponents (including fractional exponents) and radicals using exponent properties.
- Determine whether a functional relationship exists between two variables.
- Derive the quadratic formula by completing the square for the standard quadratic equation.
- Interpret key features of functions and explain the relationship between changes in the equation for a function and its graph.
- Graph polynomial and rational functions.
- Evaluate the outputs of combined functions.
- Solve and graph exponential and logarithmic functions.
- Define and use arithmetic or geometric sequence explicitly and recursively.
- Derive the equation and determine the center and radius of a circle from the equation.
- Derive the equation of a parabola, ellipse and hyperbola.
- Use the Law of Sines and Cosines.
- Solve right and non-right triangles using the trigonometric ratios.
- Prove the Pythagorean identities and find the unknown values of trigonometric functions.
- Use the unit circle to determine the values of the trigonometric functions for any given angle when given the values
- Graph trigonometric functions and use the inverse trigonometric functions to find the angle for a given trigonometric function.
- Represent complex numbers in rectangular and polar form and make calculations on the complex plane.

**A graphing calculator is required for this course. Please refer to our calculator policy at the beginning of the math course descriptions.

Pre-Calculus/Trigonometry Honors (2564)

CGHS Course #: MA441

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Recommended: B average in both semesters of Honors Algebra II

This course will cover all aspects of Pre-Calculus/Trigonometry; but will place more emphasis on method, rigor and increasing the understanding of mathematics and its structure. A graphing calculator is required for this course. Please refer to our calculator policy at the beginning of the math course descriptions.

Trigonometry (2566)

CGHS Course #: MA461

Grade Level: 12

Length: 1 Semester

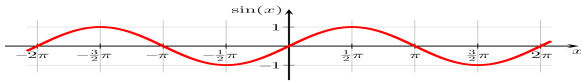
Credit(s): One

Weighted Course: No Dual Credit: No

Recommended: C- average in both semesters of Algebra II and Geometry along with a teacher recommendation.

This course needs to be taken with the Probability/Statistics course to meet requirements for a 4th year math class.

Trigonometry provides students with skills and understandings that are necessary for advanced manipulation of angles and measurement. Trigonometry provides the foundation for common periodic functions that are encountered in many disciplines, including music, engineering, medicine, finance and nearly all other STEM disciplines. This course will concentrate on trigonometric ratios in both degrees and radians, graphing trigonometric functions, verifying trigonometric identities, solving trigonometric equations and utilizing the laws of sine and cosine to solve problems.



AP Statistics (2570)

CGHS Course #: MA451

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Recommended: B- in both semesters of Algebra II and Geometry along with a teacher recommendation

Students develop an appreciation for, while developing skills in, applying statistical techniques in the decision-making process. Practical examples based on real experimental data are used. Topics include, but are not limited to methods of data collections, organization of data, and graphical techniques for exhibiting data together, basic laws of probability, sampling theory, hypothesis testing, and making inferences from samples. A graphing calculator is required. Please refer to our calculator policy at the beginning or the math course descriptions.

Probability and Statistics (2546)

CGHS Course #: MA462

Grade Level: 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Recommended: C- average in both semesters of Algebra II along with a teacher recommendation

This course needs to be taken with the Trigonometry course to meet the requirements for a 4th year math class. Probability and Statistics includes the concepts and skills needed to apply statistical techniques in the decision-making process. Topics include sampling and designing experiments, descriptive statistics, probability, and statistical inference. Practical examples based on real experimental data are used throughout. Students will learn how to view data from surveys and experiments

critically to decide if the results are valid, perform calculations on that data, and draw conclusions based on those calculations. A graphing calculator is required. Please refer to our calculator policy at the beginning or the math course descriptions.



Finite Mathematics*/ACP (2530)

Grade Level: 11, 12

CGHS Course #: MA471

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): C- average in both semesters of

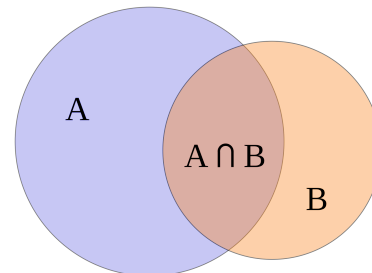
Pre-Calculus/Trigonometry along with teacher recommendation

Dual Credit Opportunities: Indiana University ACP M118

Finite Mathematics is a course designed for students planning to go to college. An emphasis will be placed on mathematical models and practical applications, illustrating how finite math is used to solve problems in such areas as business, social science, life science, and physical science. Topics include set theory, probability, counting principles, random variables, and systems of equations, matrices, linear programming, and Markov chains. Students will learn how to

1. Analyze Venn diagrams
2. Apply the counting principles of permutations and combinations.
3. Compute probabilities for events with finitely many outcomes (including conditional and Bayes probabilities).
4. Solve systems of linear equations and applications.
5. Solve linear programming problems.
6. Formulate and analyze Markov chains.

**SPECIAL NOTE: Many colleges of non-business majors as well as of business majors require a Finite math course. Many colleges require nursing majors to take this class. Check with each college for specifics. The intent of this course is to introduce students to various areas not covered in the traditional college preparatory math courses. Students can elect to take this course and earn 3 university credit hours through Indiana University's Advanced College Program (ACP).



AP Calculus AB*/ACP (2562)

CGHS Course #: MA501

Grade Level: 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): Pre-Calculus (The math department recommends that students enrolling in Calculus should have at least a B average in all college prep courses through Pre-Calculus) along with a teacher recommendation

An Advanced Placement (AP) course in Calculus consists of a full academic year of work in Calculus and related topics comparable to courses in colleges and universities. This course provides the opportunity for students to receive college credit and/or placement for courses they would normally take at the freshman level in college. Topics covered will be those listed in the Mathematics Advanced Placement Course Description for Calculus AB including limits, continuity, derivatives, integrals, and the theory of calculus. Also included are applications of the derivative and integrals, the techniques of derivatives and integrals involving rational, trigonometric, logarithmic and exponential functions. *A graphing calculator is required for this course. Please refer to our calculator policy at the beginning of the math course description.

AP Calculus BC* (2572)

CGHS Course #: MA503

Grade Level: 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): B- average in Honors Calculus recommended along with teacher recommendation

An Advanced Placement (AP) course in Calculus BC consists of a full academic year of work in Calculus BC and related topics comparable to courses in colleges and universities. Topics covered will be those listed in the Mathematics Advanced Placement Course Description for Calculus BC including limits, continuity, derivatives and the theory of calculus. Also included are applications of the derivatives and integrals, techniques of derivatives and integral involving rational, trigonometric, logarithmic and exponential functions. This course will extend the study of Calculus AB by including more on techniques of integration, arc length and area of surface of revolution for polar and parametric functions and sequences and series. A graphing calculator is required for this course. Please refer to our calculator policy at the beginning of the math course descriptions.

AP Calculus AB*/ACP (Honors) (2562)

CGHS Course #: MA541

Department: Math

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: Yes

Recommended: B- average in Honor Pre-Calculus recommended along with a teacher recommendation

An Advanced Placement (AP) course in Calculus consists of a full academic year of work in Calculus and related topics comparable to courses in college and universities. This course provides the opportunity for students to receive college credit and/or placement for courses they would normally take at the freshman level in college. Topics covered will be those listed in the Mathematics Advanced Placement Course Description for Calculus AB. This course will cover all aspects of Calculus AB, but will place more emphasis on method, rigor, and increasing the understanding of mathematics and its structure. *A graphing calculator is required for this course as the use of a graphing calculator will be required for the Calculus Advanced Placement Exam. Please refer to our calculator policy at the beginning of the math course descriptions.

Quantitative Reasoning (2544)

CGHS Course #: MA432E

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One

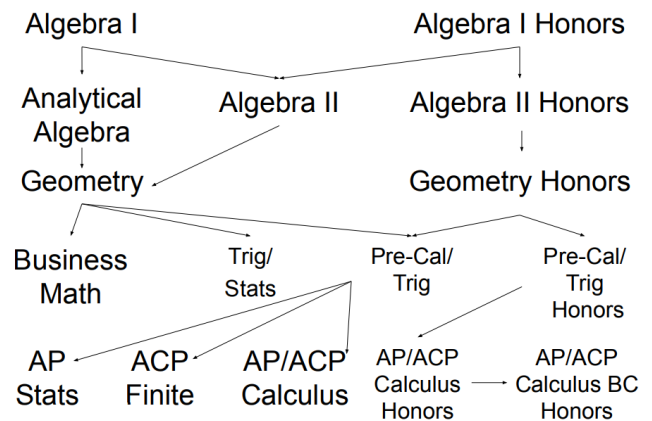
Recommended Lexile: N/A

Weighted Course: No Dual Credit: Yes

Recommended: C- average in both semesters of Algebra II and Geometry along with a teacher recommendation.

This course is for the non-science major with an emphasis on proportional reasoning and solving real-life problems. Topics include the mathematics of finance, graph theory, linear programming, counting techniques and probability, mathematical modeling, and statistics. A graphing calculator is required for this course. Please refer to our calculator policy at the beginning of the math course description.

Math Sequence



MULTIDISCIPLINARY DESCRIPTIONS (MD)

Career Exploration Internship (0530)

CGHS Course #: MD495 & MD496

Grade Level: 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Internships give students the opportunity to personally experience their career areas of interest. The student's understanding of his/her suitability for a career, the opportunities available to him/her, and general workforce practices and expectations will become evident as a result of in-class instruction and work experience. Students will develop employment skills under actual working conditions. Students' interest in academics will be enhanced by the applications of academic and job-related learning to actual work situations - learning becomes more relevant.

Learning Objectives:

Students will be required to secure an Internship site within the first week of the class and submit a completed Learning Agreement and Learning/Training Plan.

Students will be required to work at least 3 hours (6 hours if getting 2 credits or interning during your study hall time) a week at his/her Internship site.

Students will be required to complete time sheets every week.

Students will be required to complete assignments every month.

Students will be required to complete a final project over his/her Internship experience.

Peer Tutoring (0520)

CGHS Course #: MD154 & MD155

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): Teacher recommendation and application

The peer tutoring program at Center Grove High School has been designed to offer students who have indicated an interest in furthering their career interest in teaching or working with individuals with disabilities. The course provides opportunities for the students to develop a basic understanding of individual differences and to explore career options in related fields. Peer Tutoring experience (weekly log entries, teaching a classroom lesson, developing a portfolio, participating in community instruction, researching articles on various topics) are preplanned by the classroom teacher and any cooperating teacher under whom the tutoring is to be provided. This course is an elective course recommended for students in grades 10, 11, and 12 and is appropriate for students of all ability levels and career interests. The course requires teacher recommendation, as well as an application process.

Human & Social Services I Advanced Peer Tutoring (5336)

CGHS Course #: MD156

Grade Level: 11, 12

DOE Course #: 5336

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Peer tutoring and application

Advanced Peer Tutoring is an exploratory course for students interested in a career in human and community services and other helping professions. Areas of exploration include family and social services, youth development, and adult and elder care. The course provides opportunities for interdisciplinary projects and collaboration with community agencies and organizations. Students will be introduced to human and social services professions through job shadowing, community based instruction and introductory and exploratory field experiences. This project based course will help students integrate higher order thinking, communication, leadership, and management processes to conduct investigations in human and social services at the local, state and national level. Students must be able to exhibit self-motivation and discipline, work independently and collaboratively with supervising teachers, teaching assistants and youth of various abilities.

Peer Mentoring (0520)

CGHS Course #: MD154 & MD155

Grade Level: 11, 12

DOE Course #: 0520

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Teacher recommendation, Application, and Interview required

This course provides opportunities for high school juniors and seniors to mentor students in kindergarten through grade 5. This course will be primarily fieldwork relating to the development and use of listening, communication, facilitation, and decision-making skills. Students will be required to complete weekly journals and have check-in lessons during STaR. Students will also develop planning and teaching strategies that deal with the issues faced by their peer buddies. Peer Tutoring provides opportunities for the student to develop a better understanding of individual differences and to explore career options in related fields. Evaluation will be based on the peer tutor's day-to-day practical participation, maintenance of a weekly journal, and understanding of issues relating to targeted student and community groups. Parent permission to visit other school sites is required.

JROTC

CGHS Course #: MD160

Grade Level: 9, 10, 11, 12

DOE Course #: 0516

Length: 1 Semesters

Credit(s): 2 Credit per semester, 8 semesters max, 8 Credits max

Weighted Course: No Dual Credit: No

Prerequisite(s): Teacher recommendation, Application, and Interview required

This course is designed to develop: (1) citizenship and patriotism, (2) self-discipline, (3) physical fitness, (4) reliance and leadership, and (5) the skills used in decision-making, communications, and problem-solving. The course content and experiences enable the students to understand the role of the military in support of national objectives and to become familiar with basic military knowledge, gender equity issues, benefits, and requirements. Topics to be included in the course are (1) military history, (2) ROTC in the military, (3) substance abuse, (4) map reading, (5) marksmanship and firearm safety, (6) military drill, (7) field activities, (8) reserve components, and (9) first aid and hygiene.

Opportunities are provided to explore the qualities and traits of courage, self-sacrifice, and integrity. Junior Reserve Officer Training Corps programs must be approved by and meet the requirements of the appropriate military organization.

MUSIC COURSE DESCRIPTIONS (MU)

Department Chair: Kevin Schuessler, schuesslerk@centergrove.k12.in.us

DANCE PERFORMANCE: MARCHING BAND GUARD (Fall) (4146)

CGHS Course #: MU111

Grade Level: 9, 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No

Dual Credit: No

Prerequisite(s): Audition

This is a performance course that is a direct extension of the band program. This course is only open to members of the Marching Band Auxiliary Unit (Flag, Rifle, and Saber). Sequential and systematic learning experiences are provided in the area of equipment work (Flag, Rifle, and Saber) and Ballet, Modern, and Jazz movement. Students in this class participate in the Marching Band during the first semester. Activities utilize a wide variety of materials and experiences and are designed to develop techniques appropriate within the Color Guard genre, including individual and group instruction in performance repertoire and skills. Students develop the ability to express their thoughts, perceptions, feelings, and images through movement. The Marching Band Color Guard provides opportunities for students to experience degrees of physical prowess, technique, flexibility, and the study of Color Guard performance as an artistic discipline and as a form of artistic communication. Learning activities and experiences develop the students' ability to:

- understand the body's physical potential, technical functions, and capabilities;
- understand and assimilate the basic elements of technique within the genre offered;
- demonstrate an understanding of the varied styles within the genre;
- develop listening, comprehension, and memorization skills;
- use simple to complex and compound dance patterns within the genre;

- identify and use, both orally and in writing, appropriate terminology related to style and technique; and
- understand musical phrasing, rhythmic structures, and meters.

Students are able to describe, analyze, interpret, and judge live and recorded dance performances of professional dancers and companies in the genre. Students become aware of the vocational opportunities in the areas of Color Guard and dance. Please visit www.centergrovebands.com to see more details regarding fees.

DANCE PERFORMANCE: WINTER GUARD (Spring) (4146)

CGHS Course #: MU112

Grade Level: 9, 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No

Dual Credit: No

Prerequisite(s): Audition

This is a performance course that is a direct extension of the band program. This course is only open to members of the World Guard or CGCG too (JV Color Guard). Sequential and systematic learning experiences are provided in the area of equipment work (Flag, Rifle, and Saber) and Ballet, Modern, and Jazz movement. Students in this class participate in the Winter Guard during the second semester. Activities utilize a wide variety of materials and experiences and are designed to develop techniques appropriate within the Color Guard genre, including individual and group instruction in performance repertoire and skills. Students develop the ability to express their thoughts, perceptions, feelings, and images through movement. The Marching Band Color Guard and Winter Guard provide opportunities for students to experience degrees of physical prowess, technique, flexibility, and the study of Color Guard performance as an artistic discipline and as a form of artistic communication. Learning activities and experiences develop the students' ability to:

- understand the body's physical potential, technical functions, and capabilities;

- understand and assimilate the basic elements of technique within the genre offered;
- demonstrate an understanding of the varied styles within the genre;
- develop listening, comprehension, and memorization skills;
- use simple to complex and compound dance patterns within the genre;
- identify and use, both orally and in writing, appropriate terminology related to style and technique; and
- understand musical phrasing, rhythmic structures, and meters.

Students are able to describe, analyze, interpret, and judge live and recorded dance performances of professional dancers and companies in the genre. Students become aware of the vocational opportunities in the areas of Color Guard and dance. Please visit www.centergrovebands.com to see more details regarding fees.

BEGINNING CHORUS: (Mens) (4182)

CGHS Course #: MU125

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): No audition needed

Mens Chorus is a non-auditioned male choral ensemble. This ensemble performs in 4 concerts each year at Center Grove High School; Fall Fest, Noel, Showcase of Champions, and Spring Spec. The Center Grove community highly supports these shows and often, these performances sell out. Members will be required to attend a few rehearsals outside of regular school hours in preparation for performances. Members will perform both concert choir and show choir music. In addition, they will be issued a costume by the CGCPO. If you are interested in singing, this is a great introductory class to the CGHS choral department. (There will be auditioned opportunities within this ensemble to perform with a competitive choir.)

BEGINNING CHORUS: (Women's) (4182)

CGHS Course #: MU127

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): No audition needed

Women's Chorus is a non-auditioned female choral ensemble. This ensemble performs in 4 concerts each year at Center Grove High School; Fall Fest, Noel, Showcase of Champions, and Spring Spec. The Center Grove community highly supports these shows and often, these performances sell out. Members will be required to attend a few rehearsals outside of regular school hours in preparation for performances. Members will perform both concert choir and show choir music. In addition, they will be issued a costume by the CGCPO. If you are interested in singing, this is a great introductory class to the CGHS choral department. (There will be auditioned opportunities within this ensemble to perform with a competitive choir.)

INTERMEDIATE CHORUS: (THE ACCENTS) (4186)

CGHS Course #: MU221

Grade Level: 9, 10, 11, 12

DOE Course #: 4186

Length: 2 Semesters

Credit(s): Two

Weighted Course: No

Dual Credit: No

Prerequisite(s): Vocal/Dance audition for placement

The Accents is an auditioned all-female choral ensemble and is composed of students in grades 9 -12. This ensemble performs in 5 concerts each year at Center Grove High School; Fall Fest, Noel, Pre-Contest Show, Showcase of Champions, and Spring Spec. The Center Grove community highly supports these shows and often, these performances sell out. In addition, this ensemble will compete at 2 competitions in February-March. Members will be required to attend a few rehearsals outside of regular school hours in preparation for performances, but outside rehearsals are minimal and so all athletes are able to participate in this ensemble. Please visit www.centergrovechoirs.org to see more details regarding fees and please keep in mind that the CGCPO has a need-based scholarship program for those who qualify.

INTERMEDIATE CONCERT BAND: (SYMPHONIC BRASS) (4168)

CGHS Course #: MU261

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No

Dual Credit: No

Prerequisite(s): Past Performance experience on instrument to be performed or audition

Symphonic Brass is an intermediate level class designed to give more individualized attention to students that play a brass instrument. The daily work and music selected will be used to advance the technique and musicality of the students to a higher level. The literature is moderate in nature and is selected to enhance the knowledge of styles and periods of music. Students are encouraged to study privately to develop on their individual instrument. At the conclusion of the first semester, students may be considered for placement into one of the top level ensembles. This will be based on past performance in the class and instrumentation needs in the top two ensembles. Please visit www.centergrovebands.com to see more details regarding fees.

INTERMEDIATE CONCERT BAND: (SYMPHONIC PERCUSSION) (4168)

CGHS Course #: MU261

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No

Dual Credit: No

Prerequisite(s): Audition and Selection by Director

Percussion Ensemble has been developed to advance the level of performance for percussion students in the music department. There are three separate percussion ensembles at Center Grove. Students are assigned to Wind Ensemble, Wind Symphony, or Symphonic Band. All percussion students will be enrolled in this

course and assigned to play for various concert bands as needed during the season. Private lessons are highly recommended. Please visit www.centergrovebands.com to see more details regarding fees.

INTERMEDIATE CONCERT BAND: (SYMPHONIC WOODWINDS) (4168)

CGHS Course #: MU261

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Past performance experience on instrument to be performed or audition

Symphonic Woodwinds is an intermediate level class designed to give more individualized attention to students that play a woodwind instrument. The daily work and music selected will be used to advance the technique and musicality of the students to a higher level. The literature is moderate in nature and is selected to enhance the knowledge of styles and periods of music. Students are encouraged to study privately to develop on their individual instrument. At the conclusion of the first semester, students may be considered for placement into one of the top level ensembles. This will be based on past performance in the class and instrumentation needs in the top two ensembles. Please visit www.centergrovebands.com to see more details regarding fees.

Piano and Electronic Keyboard (4204)

CGHS Course #: MU291

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Teacher recommendation required

A full year course of study that will give the general student or the music student that is interested in learning to play the piano an opportunity to learn in a classroom environment, limited to 15 students per class. The course teaches the basic skills of learning how to read music at the piano keyboard and allows the student to develop their individual abilities to a basic proficiency. The class is designed to give the student the necessary knowledge and technical skills to be able to continue on their own or secure private instruction.

INTERMEDIATE ORCHESTRA: (PHILHARMONIC ORCHESTRA) (4172)

G CGHS Course #: MU301

Grade Level: 9, 10, 11, 12

Length of Course: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Past performance and audition/selection by director

The Center Grove High School music curriculum includes a course of study for the advanced-intermediate string orchestra. This course is intended to build on an intermediate-level foundation and progress the student to an advanced level of skill and

musicianship. A large emphasis is placed on developing refined technique in order to allow the students to perform, alone and with others, music of a wide variety of styles and broader technical requirements. In addition, a broader understanding of music notation and theory will be developed in this class as well as higher levels of discrimination of musical performances. The Philharmonic Orchestra will have performance opportunities throughout the year in order to display the development of this technique and understanding. Students will need to have access to a string instrument to participate in this class.

INTERMEDIATE CHORUS: (SURROUND SOUND) (4186)

CGHS Course #: MU331

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: N/A

Weighted Course: No Dual Credit: No

Prerequisite(s): Vocal/Dance audition for placement

Surround Sound is an auditioned mixed choral ensemble and is composed of men in grades 9 -12 and women in grades 10-12. This ensemble performs in 5 concerts each year at Center Grove High School; Fall Fest, Noel, Pre-Contest Show, Showcase of Champions, and Spring Spec. The Center Grove community highly supports these shows and often, these performances sell out. In addition, this ensemble will compete at 2 competitions in February-March. Members will be required to attend a few rehearsals outside of regular school hours in preparation for performances, but outside rehearsals are minimal and so all athletes are able to participate in this ensemble. Please visit www.centergrovechoirs.org to see more details regarding fees and please keep in mind that the CGCPO has a need-based scholarship program for those who qualify.

ADVANCED CONCERT BAND: (WIND SYMPHONY WINDS) (4186)

CGHS Course #: MU361

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Past Performance and Audition/Selection by Directors

Wind Symphony is a select group, based on audition and past performance. This course is designed to challenge the advanced musician and expose them to literature above the average high school musician's ability. Private lessons are recommended at this level. At the conclusion of the first semester, some students may be considered for placement in Wind Ensemble. This will be based on past performance in the class and instrumentation needs in the top two ensembles. Please visit www.centergrovebands.com to see more details regarding fees.

ADVANCED ORCHESTRA: (SYMPHONIC ORCHESTRA)* (4174)

CGHS Course #: MU401

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Past performance and audition/selection by the director.

The Center Grove High School music curriculum includes a course of study for the advanced level Orchestra. An advanced level of technical skill and musicianship is necessary for success in this class. Students will have the opportunity to perform as soloists, in chamber groups, as well as with the larger string and full orchestra. Performance literature will encompass a wide variety of styles with emphasis on masterworks from the standard repertoire. While not required, private lessons on your instrument are strongly recommended. The Symphonic Orchestra will have public performance opportunities throughout the year in order to display the development of their technique and musical understanding and some after-school rehearsals will be required to participate in this course. Students will need to have access to a string instrument to participate in the class.

ADVANCED CHORUS: CHAMBER ENSEMBLE (CG SINGERS) * (4188)

CGHS Course #: MU443

Grade Level: 9, 10, 11, 12

Length of Course: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Vocal/Sight Reading Audition for placement

CG Singers is an advanced auditioned concert choir, composed of students in grades 9-12. The group performs a variety of choral literature, however, focuses on advanced concert music. This ensemble performs in 5 concerts each year at Center Grove High School; Fall Fest, Noel, Pre-Contest Show, Showcase of Champions, and Spring Spec. The Center Grove community highly supports these shows and often, these performances sell out. This ensemble will compete at 2 or 3 competitions in February-March. In addition, they will travel on a national trip on an annual basis. Members will be required to attend a few rehearsals outside of regular school hours in preparation for performances, but outside rehearsals are minimal and so all athletes are able to participate in this ensemble.

Please visit www.centergrovechoirs.org to see more details regarding fees and please keep in mind that the CGCPO has a need-based scholarship program for those who qualify.

ADVANCED CHORUS: (DEBTONES) (4188)

CGHS Course #: MU451

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Vocal /Dance audition for placement

The Debtone is an advanced auditioned all female show choir, composed of students in grades 9-12. The group performs a variety of choral literature, including both Concert and Show Choir music. This ensemble performs in 5 concerts each year at Center Grove High School; Fall Fest, Noel, Pre-Contest Show, Showcase of Champions, and Spring Spec. The Center Grove

community highly supports these shows and often, these performances sell out. This ensemble will compete at 5-8 competitions in February-March. In addition, they will travel on a national trip on an annual basis. Members will be required to attend regular rehearsals outside of school hours in preparation for performances. These rehearsal demands are compatible with Fall/Spring Sports, but not Winter Sports. Please visit www.centergrovechoirs.org to see more details regarding fees and please keep in mind that the CGCPO has a need-based scholarship program for those who qualify.

ADVANCED CHORUS: (CG SOUND SYSTEM) (4188)

CGHS Course #: MU453

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Vocal /Dance audition for placement

CG Sound System is an advanced auditioned mixed show choir, composed of men in grades 9-12 and women in grades in 10-12. The group performs a variety of choral literature, including both Concert and Show Choir music. This ensemble performs in 5 concerts each year at Center Grove High School; Fall Fest, Noel, Pre-Contest Show, Showcase of Champions, and Spring Spec. The Center Grove community highly supports these shows and often, these performances sell out. This ensemble will compete at 5-8 competitions in February-March. In addition, they will travel on a national trip on an annual basis. Members will be required to attend regular rehearsals outside of school hours in preparation for performances. These rehearsal demands are compatible with Fall/Spring Sports, but not Winter Sports. Please visit www.centergrovechoirs.org to see more details regarding fees and please keep in mind that the CGCPO has a need-based scholarship program for those who qualify.

ADVANCED CONCERT BAND: (WIND ENSEMBLE WINDS) * (4170)

CGHS Course #: MU461

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Past Performance and Audition/Selection by Directors

Wind Ensemble is a select group, based on audition and past performance. It is intended for those students with a serious interest in developing their abilities on their instrument and the study and performance of college level music. It is highly recommended that students study privately on their instrument. Students may be reevaluated near the end of the first semester and moved into another band if necessary. Students in Wind Ensemble must attend scheduled after-school rehearsals in the spring. It is the expectation that students in this ensemble participate in ISSMA Solo and Ensemble as well as audition and/or apply for various All-State or honor groups. Please visit www.centergrovebands.com to see more details regarding fees.

Jazz Ensemble (4164)

CGHS Course #: MU471

Grade Level: 10, 11, 12

Length of Course: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Audition and Selection by Director

Jazz Ensemble is composed of students who desire to express different styles of jazz music. There is a heavy emphasis on improvisation and theory. Several performances are given throughout the year, which includes festivals, community performances, and concerts.

Music Theory and Composition Global Campus (4208)

CGHS Course #: MU491G

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): Entrance exam by teacher during spring semester prior to class year

Music Theory is a one semester Global Campus course that is an introductory study of music notation and music ear training. While semester one is open to any Sophomore, Junior, or Senior interested in learning the basics of written music, students in the class should have some music background and demonstrate advanced mastery of performance on an instrument and/or voice. It is suggested that anyone planning to major in music in college take this course as preparation.

AP Music Theory*(4210)

CGHS Course #: MU493

Grade Level: 11, 12

Length of Course: 2 Semesters

Credit(s): Two

Weighted Course: Yes

Prerequisite(s): Music Theory and Composition; teacher recommendation based upon superior performance in the introductory level music theory.

This rigorous course will expand upon the skills learned in the one semester Global Campus Music Theory and Composition and is open to any senior planning to major in music in a post-secondary college or university. The focus of the course is to prepare students to take the (AP) Music Theory Examination in the spring. Musical composition, sequencing, and other MIDI digital formats are some of the many applications used to further students' understanding of music theory.

Theatre Arts

CGHS Course #: MU180

Grade Level: 9, 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Theatre Arts is based on the Indiana Academic Standards for Theatre. Students enrolled in Theatre Arts read and analyze plays, create scripts and theatre pieces, conceive scenic designs, and develop directing skills. These activities incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theatre, attend and critique theatrical productions, and recognize the responsibilities and the importance of individual theatre patrons in their community. This is a non-performance class and is perfect for students who don't want to perform but want to learn about theatre!

Advanced Theatre Arts

CGHS Course #: MU280

Grade Level: 10,11,12

Length: 1 semester

Credit (s): One

Weighted course: No Dual Credit: No

Prerequisite (s): Theatre Arts

Advanced Theatre Arts is based on the Indiana Academic Standards for Theatre. Students enrolled in Advanced Theatre Arts read and analyze plays and apply criteria to make informed judgments. They draw on events and experiences to create scripted monologues and scenes, create scenic designs for existing plays, and build characters through observation, improvisation and script analysis. These activities incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore careers in theatre arts and begin to develop a portfolio of their work. They also attend and critique theatre productions and identify ways to support the theatre in their community. This is a non-performance class and is perfect for students who don't want to perform but want to learn about theatre!

Technical Theatre

CGHS Course #: MU170

Grade Level: 9,10,11,12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Technical Theatre is based on the Indiana Academic Standards for Theatre. Students enrolled in Technical Theatre actively engage in the process of designing, building, managing, and implementing the technical aspects of a production. These activities incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Students will apply technical elements and research to create a design that communicates the concept of a theatrical production.

PHYSICAL EDUCATION & HEALTH COURSE DESCRIPTIONS (PE)

Department Chair: Deb McClurg, mcclurgd@centergrove.k12.in.us

Physical Education 1 (3542)

CGHS Course #: PE101

Grade Level: 9

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): None

This course emphasizes health-related fitness and helps develop skills and habits necessary for a lifetime of physical activity: Skill development, application of rules and strategies in a variety of activities included (some activities are different from P.E. II)

Physical Education 2 (3544)

CGHS Course #: PE201

Grade Level: 10

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): None

This course emphasizes health-related fitness and helps develop skills and habits necessary for a lifetime of physical activity: Skill development, application of rules and strategies in a variety of activities included (some activities are different from P.E. I)

Applied Physical Education 1-2: (3542) (3544)

CGHS Course #: PE103

Grade Level: 9, 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): None

This course counts as a Physical Education requirement for the Certificate of Completion. Focuses on instructional strategies based on individual needs that provides students opportunities to actively participate in lifetime physical activities and fitness.

Modern Fitness: Elective PE (3560)

CGHS Course #: PE205

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): PE 1 & PE 2

Students will develop a personal profile, set personal goals, and learn the importance of including exercise in their lives. Fitness activities included but not limited to: Aerobics, Step Aerobics, flexibility training, jogging, Pilates, Tae Bo, Yoga, Zumba, speed walking, swimming, and weight training. Students will be graded on participation, development of a personal fitness profile, and goal setting. Pre- and Post-testing will be utilized for measurement of improvement throughout the course.

Health and Wellness Education (3506)

CGHS Course #: PE211

Grade Level: 9, 10, 11, 12

DOE Course #: 3506

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): None

This fundamental course deals with aspects of: health and safety, alcohol, drugs, tobacco, consumer education, nutrition, personal health, mental health, family life education, diseases, personal fitness, and a healthful environment. This course is required to meet state graduation requirements.

Specialized PE: Elective PE (3560)

CGHS Course #: PE301 & PE302

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No

Prerequisite(s): PE 1 & PE 2 and active participation in a sport or other intense physical activity. Coach or teacher recommendation required.

This is a more rigorous course designed for athletes. Non-athletes are eligible to enroll in this course provided they possess the necessary high physical strength and work ethic to be successful in this course. This class offers the athlete changes for improvement in the areas of flexibility, strength, and cardiovascular endurance.

Physical Conditioning (3560)

CGHS Course #: PE303 & PE304

Grade Level: 10, 11, 12

DOE Course #: 3560

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): PE 1 & PE 2

This class offers an opportunity to learn about exercise physiology, methods and safety of weight training, and rest, workout programs, aerobic and anaerobic training.

Water Games: Elective Physical Education (3560)

CGHS Course #: PE305

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No

Prerequisite(s): PE 1 & PE 2 and passed Beginning Swimming in PE

This class, taught entirely in the pool, is designed to attract a wide variety of students who are interested in good fitness activities, as well as learning water sports and other related issues. Some of the activities include: games (water volleyball,

water polo, water basketball, water football, diving, etc.), boating, canoeing, snorkeling, fishing, and swimming fitness.

Lifeguard Certification: Elective PE (3560)

CGHS Course #: PE307

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): PE 1 & PE 2 15 years of age, or by teacher's recommendation

Students in this course will have the opportunity to become certified as an American Red Cross Lifeguard. This includes CPR for the Professional Rescuer, Basic First Aid, and learning to use an Automated External Defibrillator. Students will be charged fees for an American Red Cross Certification car.

Individual Sports: Elective PE (3560)

CGHS Course #: PE309

Grade Level: 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit:

Prerequisite(s): PE 1 & PE 2

This course emphasizes rules and regulations, instructions, participation, and individual sports such as golf, tennis, fitness, and other activities.

Team Sports: Elective PE (3560)

CGHS Course #: PE311

Grade Level: 10, 11, 12

Length of Course: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): PE 1 & PE 2

This course emphasizes rules and regulations, instruction, and participation in team sports, such as, volleyball, football, ultimate Frisbee, soccer, badminton, pickleball, hockey, basketball and other activities. Additional costs will be collected accordingly.

Introduction to Officiating (3560)

CGHS Course #: PE312

Grade level: 11-12

Length: 1 Semester

Credit(s): One

Weighted Course: No

Prerequisite(s): PE 1 & PE 2

This class will provide students with a provisional officiating license and teach them transferable employment skills, including time management and conflict resolution. This class is for people interested in starting their officiating Journey. (There will be a fee per sport license.)

SCIENCE COURSE DESCRIPTIONS

Department Chair: Anne Elsner, elsnera@centergrove.k12.in.us

Science Courses FAQ

What science course should I take next?

CGHS recommends that all students take at least 3 core science courses to have a well rounded education in science. The four core sciences are biology, chemistry, earth space, and physics. If a student qualifies for the honors versions, students are highly encouraged to challenge themselves and take the honors courses.

For all diploma types, the following are required:

- *2 credits: Biology I*
- *2 credits: Chemistry I or Physics I or Integrated Chemistry-Physics*
- *2 credits: any Core 40 science course*

For the Academic Honors Diploma, in addition to the above, students need to earn 4 credits in 2 or more AP courses and take corresponding AP exams. These don't have to be science classes, but the Science AP courses would count toward this requirement.

What courses can I receive direct college credit in?

ACP Chemistry, ACP Biology, Geology (VU Course)

What AP classes are available?

AP Biology, AP Chemistry, AP Physics and AP Environmental Science

What semester electives are available?

Meteorology, Astronomy, Microbiology, Genetics, Organic Chemistry

Core Courses

Recommended that students take 3 core classes listed below prior to taking any elective courses.

<p>Biology I (3024) CGHS Course #: SC111 Grade Level: 9, 10, 11, 12 Length: 2 Semesters Credit(s): Two Weighted Course: No Dual Credit: No Prerequisite(s): Science teacher recommendation</p> <p>Biology I is a course based on the following core topics: cellular chemistry, structure, and reproduction; matter cycles and energy transfer; interdependence of organisms; molecular basis of heredity; genetics and evolution.</p>	<p>Biology I (Honors) (3024) CGHS Course #: SC113 Grade Level: 9, 10, 11, 12 Length of Course: 2 Semesters Credit(s): Two Weighted Course: Yes Dual Credit: No Prerequisite(s): Must meet combination of grade, NWEA, CogAT, ELA ILEARN Requirement</p> <p>Biology I Honors is a course based on the following core topics: cellular chemistry, structure, and reproduction; matter cycles and energy transfer; interdependence of organisms; molecular basis of heredity; genetics and evolution. This course follows the same topics as Biology I, but with more emphasis on designing, conducting, and writing laboratory assignments, analysis of scientific articles, and essay questions on tests.</p>
<p>Chemistry I (3064) CGHS Course #: SC331 Grade Level: 9, 10, 11, 12 Length: 2 Semesters Credit(s): Two Weighted Course: No Dual Credit: No Prerequisite(s): Recommended B in Algebra I or concurrently enrolled in Algebra II; teacher recommendation in Biology or ICP</p> <p>Chemistry I is a course based on the following core topics: properties and states of matter; atomic structure; bonding; chemical reactions; solution chemistry; behavior of gasses, and organic chemistry. Students enrolled in Chemistry I compare, contrast, and synthesize useful models of the structure and properties of matter and the mechanisms of interactions.</p>	<p>Chemistry I (Honors) (3064) CGHS Course #: SC333 Grade Level: 9, 10, 11, 12 Length: 2 Semesters Credit(s): Two Weighted Course: Yes Dual Credit: No Prerequisite(s): Recommended B or higher in Honors Algebra I, with teacher review and recommendation</p> <p>Chemistry I Honors is a course based on the following core topics: properties and states of matter; atomic structure; bonding; chemical reactions; solution chemistry; behavior of gasses, and organic chemistry. Students enrolled in Chemistry I Honors compare, contrast, and synthesize useful models of the structure and properties of matter and the mechanisms of its interactions. Students study the same topics as Chemistry I, but at a faster pace and in a greater depth. Chemistry I honors emphasizes advanced laboratory techniques, more extensive mathematical modeling, and many more writing exercises. This course is designed for students who are motivated to follow a career in a science-related field and have a strong math background. Students who plan on taking AP Chemistry should take Honors Chemistry.</p>

Physics I (3084)

CGHS Course #: SC341

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Recommended B in Algebra I or Algebra II; science teacher recommendation

Physics I is a course focused on the following core topics: motion and forces; energy and momentum; temperature and thermal energy transfer; electricity and magnetism; sound, vibrations and waves; light and optics. Physics I is an algebra-based physics course. A scientific calculator is required

Physics I (Honors) (3084)

CGHS Course #: SC343

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Recommended B in Honors Algebra I or A in Algebra I with teacher recommendation

Honors Physics I is a course focused on the following core topics: motion and forces; energy and momentum; temperature and thermal energy transfer; electricity and magnetism; sound, vibrations and waves; light and optics. Honors Physics I is an algebra-based physics course. The math level of this course is Algebra II. A scientific calculator is required. Students study the same topics as Physics I, but at a faster pace and in greater depth. Physics I honors emphasizes advanced laboratory techniques, more extensive mathematical modeling, and many more writing exercises. This course is designed for students who are motivated to follow a career in a science-related field and have a strong math background.

Integrated Chemistry-Physics (ICP) (3108)

CGHS Course #: SC251

Grade Level: 9, 10, 11, 12

Length of Course: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): Recommended Algebra 1 (can be taken concurrently)

Integrated Chemistry-Physics (ICP) is a two-credit course focused on the following core topics: Particle Theory of Matter, Atomic Structure, Chemical Reactions, Radioactivity, Motion, Force, Energy Conversions, Waves, and Electricity & Magnetism. ICP will also prepare students for success in Chemistry, Physics, or other advanced science classes. ICP is not a substitute for a full-year of chemistry or physics, but it does satisfy Indiana Core 40 diploma requirements in the physical sciences category.

Earth and Space Science (3044)

CGHS Course #: SC121

Grade Level: 9, 10, 11, 12

Length of Course: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit:

Earth and Space Science is a course focused on the following core topics: study of the earth's layers; atmosphere and hydrosphere; structure and scale of the universe; the solar system and earth processes. Students analyze and describe earth's interconnected systems and examine how earth's materials, landforms, and continents are modified across geological time.

AP Courses

Advanced Placement Biology (3020)/ ACP Biology Biol-L100

CGHS Course #: SC411
Grade Level: 10, 11, 12
Length: 2 Semesters
Credit(s): Two



Weighted Course: Yes Dual Credit: yes (ACP Biology)
Prerequisite(s): Biology I (recommended Honors Biology) and Chemistry I

Advanced Placement Biology: This course prepares students to take the AP Biology Exam through in-depth study of cellular biology, molecular biology, genetics, living systems and evolutionary theory. Students can also use this course as preparation for the SAT2 Advanced Biology Exam. For additional information on the AP Program, go to the CGHS AP Web Site or contact your school counselor. Completing the Biology AP Exam in the spring could earn a student 3 - 8 science major college credits depending on score.

ACP Biology: This course provides the student with 5 non-major credits for Biol L100 Humans & the Biological World through Indiana University. This course is offered concurrently with AP Biology as they follow the same curriculum all year. ACP offers a different weighted grade (35% labs, 55% assessments and 10% practice & application) and college credit.

Advanced Placement Chemistry (3060)

Grade Level: 10, 11, 12
CGHS Course #: SC431
Length: 2 Semesters
Credit(s): Two

Weighted Course: Yes Dual Credit: No
Prerequisite(s): Recommended Chemistry I Honors with Chemistry teacher approval. Students must have completed Algebra II and be concurrently enrolled in or have completed pre-Calculus.

Chemistry Advanced Placement is a course based on the content established by the College Board. The content includes: (1) structure of matter; atomic theory and structure, chemical bonding, molecular models, nuclear chemistry; (2) states of matter: gasses, liquids, and solids, solutions; and (3) reactions: reaction types, stoichiometry, equilibrium, kinetics and thermodynamics. This course is recommended for any student wishing to pursue a career in STEM (science, technology, engineering, or math). The course is designed to prepare students for the AP Chemistry test given in May. It is also equivalent to 1.5-2 semesters of first year college level chemistry and provides the background for students to test out of certain chemistry courses in college. This course is an excellent opportunity for a student to be ahead academically in the first year of college.

Advanced Placement Environmental Science (3012)

CGHS Course #: SC421
Grade Level: 10, 11, 12
Length: 2 Semesters
Credit(s): Two

Weighted Course: Yes Dual Credit: No
Prerequisite(s): Recommended Biology I and Chemistry I

AP Environmental Science will prepare students to take the AP exam in Environmental Science. The goal of AP Environmental Science is to provide students with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and man-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. For additional information on the AP Program, go to the CGHS AP Web Site or contact your guidance counselor.

Physics C Advanced Placement: Mechanics and Electricity and Magnetism (3088)

CGHS Course #: SC441
Grade Level: 11, 12
Length: 2 Semesters
Credit(s): Two

Weighted Course: Yes Dual Credit: No
Prerequisite(s): Recommended Honors Physics I; must be concurrently enrolled in Calculus

This course prepares students to take the AP Physics calculus-based exam in Mechanics as well as the AP Physics C exam in Electricity & Magnetism. The first semester of the course focuses on kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Although Calculus and Trigonometry are used routinely in this class, students will be taught what they need to know in these areas. The second semester of the course focuses on electrostatics, conductors, capacitors & dielectrics, electric circuits, magnetic fields, and electromagnetism. This course is intended for students who expect to enter engineering, physical science or other career fields that require a more advanced preparation in Physics. Students will perform a variety of lab exercises. For additional information on the AP Program, go to the CGHS AP Web Site at or contact your guidance counselor. A graphing calculator is required.

Biology Electives

Anatomy and Physiology (5276)

CGHS Course #: SC413
Grade Level: 11, 12
Length: 2 Semesters
Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Completion of Biology I and Chemistry I with a B or higher.



Anatomy & Physiology is a course in which students investigate concepts related to Health Science, with emphasis on interdependence of systems and contributions of each system to the maintenance of a healthy body. It introduces students to the cell, which is the basic structural and functional unit of all organisms, and covers tissues, integument, skeleton, muscular and nervous systems as an integrated unit.

Through instruction, including laboratory activities, students apply concepts associated with Human Anatomy & Physiology. Students will understand the structure, organization and function of the various components of the healthy body in order to apply this knowledge in all health related fields. Many of the labs require dissection of preserved tissues, including animal dissection of the rabbit or cat. This course is recommended for any student entering a Health Career pathway such as nursing, dentistry, pharmacy, and physical therapy. Please note that the completion of first year Chemistry is a required prerequisite. If both Chemistry and Anatomy are taken simultaneously, it could be a disadvantage to the student. There is significant overlap between the content in Project Lead the Way Human Body Systems and Human Anatomy & Physiology. Taking both classes simultaneously or separately is not recommended. Counts as a Directed Elective or Elective for all diplomas

Microbiology (3092)--Advanced Science, Special Topics:

CGHS Course #: SC335

Grade Level: 10, 11, 12

DOE Course #: 3092

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): Recommended Completion of Biology I and Chemistry I with a B or higher.



This course is designed as a laboratory-based course to challenge students with activities, experiments, critical-thinking, and problem solving. The focus of the course will primarily be on bacterial organisms and viruses with applications for medical microbiology and epidemiologic practices. Assessments will be in the form of lab reports, accurate application of laboratory techniques, oral presentations, written tests, problem solving, and written responses.

Genetics (3092) Advanced Science, Special Topics:

CGHS Course #: SC336G

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit:



Prerequisite(s): Completion of Biology I and Chemistry I with a B or higher.

GC Genetics is an advanced science elective course based on the following core topics: Mendelian (classical) genetics, Molecular genetics, population genetics and genetic technology. This course is being offered through Global Campus only.

Introduction to Forensics (3092) Advanced Science, Special Topics;

CGHS Course #: SC323

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1200 - 1400

Weighted Course: No Dual credit No

Prerequisite(s): Recommended Completion of Biology I and Chemistry I with a B or higher.



Students use scientific inquiry in order to identify, collect and analyze valid forensic evidence. Topics include: historical applications, case studies in criminal justice, clean laboratory techniques, blood typing, blood spatter analysis, fingerprint, DNA analysis, forensic entomology, processing a crime scene, firearms and tool marks examination and evidence storage, and mock trials. Overly squeamish students will find this course difficult to complete.

Chemistry Electives

ACP Chemistry (3090) Advanced Science, College Credit:

CGHS Course #: SC531

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: Yes

Prerequisite(s): Recommended B in Honors Algebra I or A in Algebra I



ACP Chemistry is a dual-credit class that is offered through Indiana University's Advanced College Program. Students taking this class can earn up to five college credits (three for C-101 Lecture and two for C-121 Laboratory). This course is similar in content to Honors Chemistry topics: properties and states of matter; atomic structure; bonding; chemical reactions; solution chemistry; behavior of gasses, and organic chemistry. However, ACP chemistry requires less mastery of the mathematical applications used to quantify chemical phenomena. The difficulty level of ACP Chemistry is considered to fall in between regular chemistry and honors chemistry.

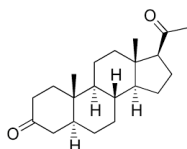
Special Considerations:

These college credits can potentially count as required science credits for students who are not intending to major in a science discipline at college, such as business, fine arts, nursing, English, etc. The ideal Center Grove student who will be successful in ACP chemistry is one who meets the prerequisites and has a desire to work in an environment that will earn them college credit. It is not necessary to have already taken a year of chemistry before registering for ACP chemistry. This class is not intended for the student who wishes to continue on by taking AP chemistry at Center Grove High School. Additionally, if a student has already taken regular chemistry at Center Grove High School but wishes to earn college credit, they might consider taking ACP chemistry.

Introduction to Organic Chemistry/Biochemistry (3092) Advanced Science, Special Topics:

CGHS Course #: SC330
Grade Level: 11, 12
Length: 1 Semester
Credit(s): One

Weighted Credit: No Dual Credit: No
Prerequisite(s): Recommended Biology I Honors (B average grade) and Chemistry I Honors (B average grade)



Organic chemistry is the study of carbon compounds and their reactions to produce new and unique molecules. Students will learn how and why reactions occur, and ultimately how reactions can be used to create a desired product. Biochemistry studies the chemical processes that drive biological mechanisms such as cellular respiration and enzyme function.

Earth Space Electives

Astronomy (3092) Advanced Science, Special Topics:

CGHS Course #: SC325
Grade Level: 11, 12
Length: 1 Semester
Credit(s): One

Weighted Course: No Dual Credit: No
Prerequisite(s): Recommended Algebra II



Astronomy is the study of the universe - the totality of space, time, matter and energy. Astronomy students study the laws of the universe including gravity, the motions of objects in the solar system, and the properties of light. Other topics include telescopes, discoveries made by early astronomers, and a collection of selected readings outside of the text. A major emphasis will be placed on observational astronomy, including the identification of constellations and planets.

Meteorology (3092) Advanced Science, Special Topics:

CGHS Course #: SC327
Grade Level: 11, 12
Length of Course: 1 Semester

Credit(s): One
Weighted Course: No Dual Credit: No
Prerequisite(s): Recommended Algebra II



Meteorology students will study the dynamics of Earth's atmosphere, including energy transfer processes, storm systems, weather forecasting, and climatic change. Students will learn how to use the Internet

to access weather maps and satellite images.

Geology 101: Advanced Science, College Credit: Environmental Science (3090)

CGHS Course #: SC126E
VU Course code is GEOS 101.
Grade Level: 10, 11, 12
Length: 1 Semester
Credit(s): One

Weighted Course: Yes Dual Credit: Yes (3 hours)
Prerequisite(s): Accuplacer scores



This course examines issues and events of current importance such as pollution, natural disasters, state and federal land use (including state and national parks), and population growth concerns. Career opportunities and transfer options for fields of studies covered will be included.



PLTW BIOMED

PLTW Principles of Biomedical Sciences (5218)

CGHS Course #: SC501
Grade Level: 9, 10
Length: 2 Semesters
Credit(s): Two

Weighted Course: Yes Dual Credit: No
Prerequisite(s):

- It is recommended students have earned C+ or higher in 8th grade science or Biology I.
- PBS students work extensively in a group setting. Students should have a strong work ethic, a positive attitude, and be able to work in a student-driven problem-based curriculum.

This course provides foundational knowledge and skills in fields such as biology, anatomy and physiology, genetics, microbiology, and epidemiology. PBS engages students in how they can apply this content to real-world situations, cases, and problems, such as: Solving a medical mystery case, diagnosing and treating a patient, responding to a medical outbreak, and developing innovative treatments of the future. Students explore the roles of

various biomedical professionals, while becoming proficient in laboratory and clinical skills they will use in college and career.

This class may count as CORE 40 science credit.

PLTW Human Body Systems (5216)

CGHS Course #: SC503

Grade Level: 10, 11, 12

Length of Course: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Students who continue on from PBS must have the following:

- A. A C+ or higher in PBS
- B. A strong work ethic and ability to work in small groups
- C. A PLTW Biomedical Sciences teacher recommendation
- D. Minimum score of PRACTICED on the PBS End of Course Assessment

**** These requirements must be fulfilled in order to move forward in the program.**

Students examine the processes, structures and interactions of the human body system to learn how they work together to maintain homeostasis (internal balance) and good health. Using real-world cases, students take the role of biomedical professionals and work together to solve medical mysteries. Hands-on projects include designing experiments, investigating the structure and functions of body systems, and using data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions and respiratory operation. Important concepts covered in the course are communication, transport of substances, locomotion, metabolic processes, defense and protection. This class may count as CORE 40 science credit.

PLTW Medical Interventions (5217)

CGHS Course #: SC505

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: N/A

Weighted Course: Yes Dual Credit: No

Prerequisite(s):

- A) A grade of B- or higher in HBS
- B) A minimum score of PRACTICED on the HBS End of Course Assessment
- C) A strong teacher recommendation based on how well you performed in HBS.

Medical Interventions explores medical practices that support humans in treating disease and maintaining health. Students investigate various diagnostic tools, tests, and patient treatments that extend and improve one's quality of life. These items

include: Bioinformatics, Gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care.

This class may count as CORE 40 science credit.

PLTW Biomedical Innovations (5219)

CGHS Course #: SC507

Grade Level: 12

Length: Two-Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s):

- A. Students must apply for entry into the course due to limited seat availability. Criteria for moving on will include GPA, teacher recommendations, a strong work ethic and student character.
- B. Students must have completed PBS, HBS, and MI successfully prior to applying for 4th year, unless the student is concurrently enrolled in MI and BI.
- C. Students must be mature enough to represent CGHS and the PLTW program with honor and integrity when off campus. Each student should have the "soft" skills required to interact with professionals in a medical setting.
- D. Students must have earned a score of PRACTICED or better on the MI End of Course Assessment. If a student is enrolled in MI concurrently with BI this stipulation may be waived or revert to the student's score on the HBS End of Course Assessment.

In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project (job shadow) and may work with a mentor or adviser from a university, hospital, physician's office, or industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community.

Dual Credit Courses

ACP Chemistry (3090) Advanced Science, College Credit:

CGHS Course #: SC531

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes

Dual Credit: Yes



Prerequisite(s): Recommended B in Honors Algebra I or A in Algebra I

ACP Chemistry is a dual-credit class that is offered through Indiana University's Advanced College Program. Students taking this class can earn up to five college credits (three for C-101 Lecture and two for C-121 Laboratory). This course is similar in content to Honors Chemistry topics: properties and states of matter; atomic structure; bonding; chemical reactions; solution chemistry; behavior of gasses, and organic chemistry. However, ACP chemistry requires less mastery of the mathematical applications used to quantify chemical phenomena. The difficulty level of ACP Chemistry is considered to fall in between regular chemistry and honors chemistry.

Special Considerations:

These college credits can potentially count as required science credits for students who are not intending to major in a science discipline at college, such as business, fine arts, nursing, English, etc. The ideal Center Grove student who will be successful in ACP chemistry is one who meets the prerequisites and has a desire to work in an environment that will earn them college credit. It is not necessary to have already taken a year of chemistry before registering for ACP chemistry. This class is not intended for the student who wishes to continue on by taking AP chemistry at Center Grove High School. Additionally, if a student has already taken regular chemistry at Center Grove High School but wishes to earn college credit, they might consider taking ACP chemistry.

Advanced Placement Biology (3020)/ ACP Biology Biol-L100

CGHS Course #: SC411
Grade Level: 10, 11, 12
Length: 2 Semesters
Credit(s): Two



Weighted Course: Yes Dual Credit: yes (ACP Biology)
Prerequisite(s): Biology I (recommended Honors Biology) and Chemistry I

Advanced Placement Biology: This course prepares students to take the AP Biology Exam through in-depth study of cellular biology, molecular biology, genetics, living systems and evolutionary theory. Students can also use this course as preparation for the SAT2 Advanced Biology Exam. For additional information on the AP Program, go to the CGHS AP Web Site or contact your school counselor. Completing the Biology AP Exam in the spring could earn a student 3 - 8 science major college credits depending on score.

ACP Biology: This course provides the student with 5 non-major credits for Biol L100 Humans & the Biological World through Indiana University. This course is offered concurrently with AP Biology as they follow the same curriculum all year. ACP offers a different weighted grade (35% labs, 55% assessments and 10% practice & application) and college credit.

Geology 101: Advanced Science, College Credit: Environmental Science (3090)

CGHS Course #: SC126E
VU Course code is GEOS 101.
Grade Level: 10, 11, 12
Length: 1 Semester
Credit(s): One
Weighted Course: Yes Dual Credit: Yes (3 hours)
Prerequisite(s): Accuplacer scores



This course examines issues and events of current importance such as pollution, natural disasters, state and federal land use (including state and national parks), and population growth concerns. Career opportunities and transfer options for fields of studies covered will be included.

Science Pathways

The following recommended course pathways are based on a student's intended post-high school plans.

2 year Technical/Associate Degree OR Career bound student

Rationale: Our hope is to prepare students for success in a 2-year post high school degree and or success in certification exams needed for Career success

Freshmen	Sophomore	Junior	Senior
Biology or Earth Space Science	Earth and Space Science or Biology	Integrated Chemistry/ Physics (ICP)	Other Science Course

4 year college undecided major (or non-science major)

Rationale: Students need a solid base knowledge of science and the rigor of a four year-long science sequence. 4 year universities such as IU and Purdue want to see lab based science courses on a students transcript.

Freshmen	Sophomore	Junior	Senior
Biology/Hrs. Biology	Chemistry/Hrs.Chem or Physics/Hrs. Physics	Chemistry/Hrs.Chem or Physics/Hrs. Physics	Science Elective

4 year Science Major

Example College Major Focus: Research (non-medical) field or laboratory. This pathway can take many forms based on student interest. Look at the university requirements

Freshmen	Sophomore	Junior	Senior
Biology/Hrs. Biology	Chemistry or Physics (Honors)	Chemistry or Physics (Honors) AND Upper Level Science Electives	Upper Level Science Electives

Advanced Medical Professions

Example College Major Focus: Doctors, dentists, physical therapists, occupational therapists, pharmacy, Nursing (BSN, RN), Veterinary.

Freshmen	Sophomore	Junior	Senior
Biology I Hrs.	Chemistry Hrs. or Physics Hrs.	Chemistry Hrs. or Physics Hrs. AND Upper Level Science Electives	<ul style="list-style-type: none"> ● AP Bio ● AP Chem ● Anatomy and Physiology ● AP Physics

*PLTW Biomed curriculum is a highly recommended addition to this science sequence

Engineering (focus on theory and conceptual design)

Rationale: For this course sequence, we are recommending a strong base in the physical sciences. AP Physics is strongly recommended senior year as the entry level physics class at a university is comparable and is the “weed-out” course for acceptance into the engineering program. We also recommend that students interested in the environmental engineering careers, take courses in the earth-space science area

Freshmen	Sophomore	Junior	Senior
Biology and/or Honors Biology	Honors Chemistry	Honors Physics AND AP Chemistry or other science elective	AP Physics

Engineering Technology (Focuses on application and implementation)

Rationale: Students following this pathway need a solid foundation of the physical sciences. We also recommend that students interested in the environmental engineering careers, take courses in the earth-space science area

Freshmen	Sophomore	Junior	Senior
Biology	Chemistry or Physics	Chemistry or Physics	Science Elective

*PLTW Engineering Curriculum is a highly recommended addition to this science sequence

SOCIAL SCIENCE COURSE DESCRIPTIONS (SS)

Department Chair: Paul Clodfelter, clodfelterp@centergrove.k12.in.us

Students should consider taking the following Social Science courses if you are interested in:

Business, Management & Marketing	Economics, Sociology, Geography & History of the World, Government, Microeconomics AP
Education & Human Services	European History, Psychology AP, Sociology, Economics, U.S. History, Geography & History of the World US Government, World History
Engineering & Technology	World History, Geography & History of the World, Sociology
Manufacturing & Construction	World History, Geography & History of the World, Sociology
Fine Arts, Design & Communications	World History, World Civilization, Geography & History of the World, Sociology, U.S. History, Government, Economics, Microeconomics AP
Health Services	Sociology, Psychology AP, Economics, Government, Microeconomics AP
Legal & Government	Government, Government AP, U.S. History, World History, Sociology, Psychology AP, Economics, European History, Microeconomics AP
Natural Science & Resource Management	Summer Social Science and Science trip, Sociology, Geography & History of the World, Government

FRESHMAN COURSES

2 Semesters Required

AP World History (SS1576)

CGHS Course #: SS251

Grade Level: 9 (Also available as an elective to 10, 11, 12)

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1100

Weighted Course: Yes Dual Credit: No

Prerequisite(s): None

Based on the Advanced Placement guidelines of the College Board, this course will introduce students to five global themes of world history from prehistoric times to the present. Assignments will emphasize both change and continuity in the world's major cultures during six different time periods. Students will also learn to write different kinds of social studies

essays. The course resembles a college freshmen class and has been designed for students who (1) have earned above average grades in either honors or regular eighth-grade and/or freshmen

social studies and (2) plan to attend college. By May, students will be prepared to take the AP World History Exam. With passing scores, they may earn college credit and/or receive college scholarships. The work in this course also prepares students for other AP social studies courses at CGHS. For additional information on the AP Program, contact the guidance office.

World History and Civilization (Honors)* (SS204)

CGHS Course #: SS151

Grade Level: 9

Length: 2 Semesters

Credit(s): Two

Weighted Course: Yes Dual Credit: No

Prerequisite(s): None

This course is recommended for gifted and talented students as well as other above average students. This course will cover the same content as the college-prep regular Geography and History of the World class, but it will use several methods of gifted and talented education, stress abstract themes, develop higher-level thinking skills, and explore the skills of research. This course is intended to be a transition class into future Social Science AP classes.



World History and Civilization (SS1548)

Grade Level: 9

CGHS Course #: SS203

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: No

Prerequisite(s): None

World History and Civilization emphasizes events and developments in the past that greatly impacted large numbers of people across broad areas and that significantly influenced peoples and places in subsequent eras. Key events related to people and places, as well as transcultural interaction and exchanges are examined in this course. Students are expected to compare and contrast events and developments involving diverse peoples and civilizations in different regions of the world. They will examine instances of continuity and change, plus unity and diversity among peoples and cultures from the past to the present. Students are also expected to practice historical thinking skills and apply content knowledge throughout the course.

SOPHOMORE COURSES

- *These are electives - There is no required sophomore course.*
- *Also see "General Electives" at the end of this document.*

AP Human Geography (1572)

CGHS Course #: SS253

Grade Level: 10 (Also available to 11, 12)

Length of Course: 2 Semesters

Credit(s): Two

Recommended Lexile: 1100

Weighted Course: Yes Dual Credit: No

Prerequisite(s): none



Human Geography, Advanced Placement is a course based on the content established by the College Board. The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Topics include: (1) Thinking Geographically, (2) population and migration patterns and processes, (3) cultural patterns and processes, (4) political patterns and processes, (5) agriculture and rural land use patterns and processes, (6) cities and urban land-use patterns and processes, and (7) industrial and economic development patterns and processes. This Course is a very approachable study of the major themes in human (cultural) geography. It will cover much of the same material and themes of geography and history of the world and integrate many current trends and events.

AP European History, (1556)

CGHS Course #: SS255

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: N/A

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Honors Geography, Human Geography AP, or any AP humanities course is preferred

AP European History is a year-long course in which students are introduced to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Since this is a college-level course, students that choose to take this course should have earned above average grades in either honors or regular level freshmen social studies courses and plan to pursue a post-secondary degree. The AP European History course corresponds to the most recent developments in history curricula. Questions in cultural, diplomatic, economic, intellectual, political, and social history form the basis for the annual exam, which is given in May. Students are expected to demonstrate a knowledge of basic chronology and of major events and trends from approximately 1450 (the High Renaissance) to the present. The entire chronological scope and range of approaches are incorporated into the exam. The goals of AP European History are to develop an understanding of some of the principal themes in modern European history, an ability to analyze historical evidence and historical interpretation, and an ability to express historical understanding in writing. Students will engage in a variety of activities, ranging from small and large group discussions to fun simulations to demonstrate their understanding of the content.

JUNIOR COURSES

2 Semesters of US History is Required

AP US History (1562)

CGHS Course #: SS351

Grade Level: 11

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1200+

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Junior status and the ability and willingness to compete with other high ability college bound juniors.

AP U.S. History is a demanding introduction to American history and culture that assumes a high level of interest and competence. Because this course is similar to a first-year college course, students should expect that the workload will be heavier than most regular high school history courses. The analytical thinking, writing, and reading skills that students develop in AP U.S. History will equip them for college and lifelong learning. In order to succeed, students need both to be motivated to study and to be able to keep up with the demands of a college-level course. AP U.S. History integrates political, social, economic, cultural, diplomatic, and intellectual history in order to convey the experiences of particular groups within the broader perspective of the American past. At the same time, it connects events and issues from the past to the concerns of the present. The course prepares students to become "students of history"

and includes an emphasis on: chronological organization, geographical literacy, point of view, political dynamics, economic patterns (social and cultural trends, intellectual developments, influences of the arts). Throughout the year, the instructor will use a variety of teaching methods and strategies to assist students in learning the necessary content and skills for the course. The course will include a college-level text and access to primary documents (in texts, class presentations, and on the Web). The first semester will cover the period from the early twentieth century to the present. The second semester will begin with early colonization in the 1500s and 1600s and end with the late 1800s. In addition to the historical content, this AP course will train students to analyze and interpret historical documents, assess the validity of historical propositions and build an effective argument. Evaluation will emphasize the writing skills necessary to prepare students for the free response section of the Advanced Placement examination.

United States History (1542)

CGHS Course #: SS311

Grade Level: 11

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 940-1210

Weighted Course: No Dual Credit: No

Prerequisite(s): Junior Status



United States History emphasizes national development in the late 19th and 20th centuries and builds upon concepts developed in previous studies of American history. Students in this course also identify and review significant events, figures, and movements in the early development of the nation. After providing such a review, the course gives major emphasis to the interaction of historical events and geographical, social, and economic influences on national development in the late 19th and 20th centuries. A chronological, topical, or comparative approach can be used in developing themes from America's past as they relate to life in Indiana and the United States today. Students demonstrate the ability to trace and analyze chronological periods and examine the relationships of significant themes and concepts in United States history. Students will be able to sequence historical events, examine cause and effect, identify different perspectives, and relate historical situations to current issues. Opportunities are given to develop inquiry skills by gathering and organizing information from primary source material and a variety of historical and contemporary sources, accounts, and documents. Investigation of themes and issues include analysis of the importance of cultural pluralism and diversity of opinion in American society. Students are given opportunities to exercise their skills as citizens in a democratic society by engaging in problem solving and civic decision making in the classroom, school, and community setting.

SENIOR COURSES

1 Semester of Government and 1 of Economics is Required

AP Government and Politics: (1560)



CGHS Course #: SS451

Grade Level: 12

Length: 2 Semester

Credit(s): two

Recommended Lexile: 1200 and above

Weighted Course: Yes Dual Credit: No

Prerequisite(s): AP US History and/or AP World History are recommended

The Advanced Placement U.S. Government and Politics program is designed to teach U.S. constitutional government based on principles of philosophy, political beliefs and behavior, political parties and interest groups, national institutions and policy processes and law. AP Government and Politics is a highly structured, very demanding college level course. Students are required to thoroughly read the college level text, as well as supplemental reading assignments. It is imperative that a high level academic environment exists and that the student is dedicated to learning. Students must put forth time and effort both at home and in the classroom. Evaluation will consist of an exam after each unit and will thoroughly test the student's skill level. Each exam has two timed sections, multiple choice and free response questions. Students will be expected to display proficiency in both areas. Many different teaching strategies will be utilized. Students will be expected to utilize technology while working on many different types of assignments. Higher level thinking skills will be emphasized as students are prepared for college level work.

United States Government (1540)

CGHS Course #: SS411

Grade Level: 12

Length: 1 Semester

Credit(s): One

Recommended Lexile: 940-1210

Weighted Course: No Dual Credit: No

Prerequisite(s): None

United States Government provides a framework for understanding the nature and importance of responsible civic participation and for learning the rights and responsibilities of individuals in a constitutional democracy. The course enables students to explore the historic origins and evolution of political philosophies into contemporary political and legal systems. Constitutional structure and the processes of the legislative, executive, and judicial branches of the national, state, and local levels of government are examined. Students learn to draw conclusions about the impact and interrelationships of history, geography, and economics upon our system of government. They also learn to demonstrate an understanding of the government structures of the United States and other political systems, as well as the relationship of American government to world affairs. Students learn to analyze political issues. They also learn to access data from primary and secondary resources and use current technology to access relevant source materials and as a tool for producing documents in support of learning projects. Students have opportunities to take, defend, and evaluate positions on current issues that impact political decision-making. They should understand their ability to influence policies and decisions as individuals and in groups.

Sociology (1534)

CGHS Course #: SS441

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One

Recommended Lexile: 1000 or greater

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Sociology provides opportunities for students to study group behavior and basic human institutions. Broad areas of content include the study of institutions found in all societies and could involve: culture, socialization, groups, deviance, social class, and race/ethnicity. This is a college preparatory elective and will utilize a college-level textbook. A Lexile score of 1000 or greater is recommended to be successful in this course.

Psychology (1532)

CGHS Course #: SS454

Grade Level: 11, 12

Length: 1 Semester

Credit(s): One

Recommended Lexile: 1100

Weighted Course: No Dual Credit: No

Prerequisite(s): None

This course provides students the opportunity to explore psychology as the scientific study of mental processes and behavior. The main focus will be on behavioral, social and human development with an introduction into the biological processes. Psychology will help students develop critical thinking skills and develop better study skills. The course will resemble a freshman college course and the grade will be based on tests, quizzes and a few assignments.

Indiana Studies (1518)

CGHS Course #: SS211

Grade Level: 9, 10, 11, 12

Length: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Indiana Studies is an integrated course that compares and contrasts state and national developments in the areas of politics, economics, history, and culture. The course uses Indiana history as a basis for understanding current policies, practices, and state legislative procedures. It also includes the study of state and national constitutions from a historical perspective and as a current foundation of government. Examination of individual leaders and their roles in a democratic society will be included and students will examine the participation of citizens in the political process. Selections from Indiana arts and literature may also be analyzed for insights into historical events and cultural expressions.

Ethnic Studies (1516)

CGHS Course #: SS213

Grade Level: 10, 11, 12

DOE Course #: 1516

Length: 1 Semester

Credit(s): One

Recommended Lexile: Reading 900L-1210L

Weighted Course: No Dual Credit: No

Prerequisite(s): None

This course is designed to allow students to develop a multicultural perspective when examining various ethnic groups that live in the United States. Furthermore, as humans continue to advance in the areas of communication and transportation, human integration will necessitate advanced social skills that allow students to navigate the complexity of human-to-human contact regardless of different ethnic backgrounds. This course will concentrate on various ethnic groups in the United States and use a comparative approach to the study of patterns of cultural development, immigration, and assimilation, as well as the contributions of specific ethnic or cultural groups. This course will also include analysis of the political impact of ethnic diversity in the United States and how it continues to shape government policy concerning minority groups, immigration, and refugees.

Modern World Civilization (Global Campus) (1528)

CGHS Course # SS205G

Grade level: 10,11,12

Length of Course: 1 semester

Credit(s): one

Weighted Course: No Dual Credit: No

Prerequisite(s): sophomores, junior or senior status

Modern World Civilization provides students an in-depth look at the twentieth and twenty-first century world. It is a study of different cultures as they exist in the world today, including comparative analysis of the various types of government, economic, and social systems. International relationships are examined partly from the viewpoint of national interests, including the successes and failures of diplomacy.

Topics in History, "Marginalized Populations in History"

CGHS Course #: SS321

Grade Level: 11,12

Length of Course: 1 Semester

Credit(s): One

Weighted Course: No Dual Credit: No

Prerequisite(s): none

This "Topics in History" course provides students the opportunity to study specific historical eras, events, or concepts. Development of historical research skills using primary and secondary sources is emphasized. This specific course will look at how historic events, trends, and eras hindered, challenged, and advanced marginalized and minority groups. Topics included: genocides throughout history -- as an exploration of minority rights in history; the war against witchcraft -- as an exploration of gender inequality in history; walls in history -- as an exploration of prohibitions of human migration in history; social, political, and economic revolutions in history -- as an exploration of the human drive for transformative societal change.

WORLD LANGUAGE COURSE DESCRIPTIONS (WL)

Department Chair: Barbara Gnagy, gnagy@centergrove.k12.in.us

Most universities/colleges currently require world languages courses for admission* In addition, many universities/colleges will require a world language to graduate from their institution. Incoming college freshmen are given placement tests in their respective world languages. One major goal of the Center Grove High School World Languages Department is preparing students to take these placement tests in order to successfully continue their language studies at the collegiate level.

Students should have an above average background in English and mathematics because of the strong correlation between English and mathematics and world language study. **Memorization and recall are major elements for successful world language study.**

****SPECIAL NOTES**** While the formal prerequisite for world language classes for the second year and higher, is simply passing the previous year's course, experience has proven that students earning less than a C+ in the previous course have had significant learning difficulties in subsequent years. As a recommendation for all first-year world languages, students electing to take a world language should have a minimum average of a C+ in English and in Math.

French I (2020)

CGHS Course #: FL111

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1000 and up

Weighted Course: No Dual Credit: No

Prerequisite(s): None

French I provides instruction enabling students to discuss the reason for learning French and to develop an understanding of the people who speak French. This course sets the grammatical foundation necessary for language acquisition. This college preparatory course requires students to be committed to learning vocabulary and grammar structures at a steady pace; therefore, good study skills and memorization are essential to success in French I.

German I (2040)

CGHS Course #: FL121

Grade Level: 9, 10, 11, 12

DOE Course #: 2040

Length of Course: 2 Semesters

Credit(s): Two

Recommended Lexile: 1000 and up

Weighted Course: No Dual Credit: No

Prerequisite(s): None

German I is an introduction to the German language, reasons for studying German, and understanding the customs and culture of German speaking countries. This college-prep course requires students to be committed to learning vocabulary and grammar; therefore, good study skills and memorization are essential to be successful in German I. Students will be able to respond to and give oral directions and commands, to make requests, to understand and use appropriate forms of address, to discuss daily routines and events, and to ask and answer simple questions. Students will learn to read and comprehend simple directions and short narrative texts. In addition, students will write phrases and short paragraphs.

Spanish I (2120)

CGHS Course #: FL141

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1000 and up

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Spanish I is a college preparatory course which requires strong study skills and extensive memorization. Students will be expected to communicate in Spanish in a variety of settings. Grammar and vocabulary will be stressed, but instruction will also include information about culture of the countries being studied. Students will also learn to read and comprehend simple phrases and short paragraphs. In order to be successful in Spanish II, a student will need to utilize the topics covered in Spanish I course.

Chinese I (2000)

CGHS Course #: FL151

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1000 and up

Weighted Course: No

Prerequisite(s): None

Chinese I content begins by exploring the topics relating to the individual, family, and school. Students will begin to learn the basic skills of listening, speaking, reading, and writing. Students will learn basic vocabulary and sentence structures relating to everyday situations, such as, greetings, names, nationalities, and daily routine. The students will also write simple sentences about self and family. Several aspects of Chinese culture will be introduced: holidays, educational system, family dynamics, and geography of China.

French II (2022)

CGHS Course #: FL211

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1100 and up

Weighted Course: No Dual Credit: No

Prerequisite(s): Successful completion of French I (B- or Higher)

In French II students review the basic material learned in French I before proceeding with French II curriculum. This college prep course requires students to be committed to learning vocabulary and grammar structures at a fast pace. French II provides the students with the tools to participate in conversations about daily activities and personal interests. Students are able to ask questions regarding routine activities, to participate in conversations, to relate a simple narrative, and to interact in a variety of situations to meet personal needs. Students will read short texts for comprehension. They will write about their own experiences. Students will be able to communicate both orally and in writing in a variety of situations. Additionally, students will become familiar with Francophone culture.

German II (2042)

CGHS Course #: FL221

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1100 and up

Weighted Course: No Dual Credit: No

Prerequisite(s): Successful completion of German I (B- or Higher) and a teacher recommendation

German II continues to build on the concepts learned in German I. The pace and rigor of this course is somewhat more advanced than 1st year, and more instruction is delivered in German. More and longer pieces of writing will be assigned and students are expected to speak more German in class. Topics covered in German II include holidays & celebrations, clothing & fashion, home life, vacation & travel, and technology. These topics are discussed as they relate to students' daily lives as well as within the German culture.

Spanish II (2122)

CGHS Course #: FL241

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1100 and up

Weighted Course: No Dual Credit: No

Prerequisite(s): Successful completion of Spanish I (B- or higher) and a teacher recommendation

Spanish II is a college preparatory course which requires students to build on the grammar and vocabulary concepts learned in Spanish I. Students will be responsible for using all of the concepts learned in Spanish I. Grammar and vocabulary will be stressed at an accelerated pace. There will also be instruction regarding the culture of the Spanish-speaking countries. Students will write a short story-length original composition. In order to be successful in Spanish III, students will need to utilize all topics covered throughout the Spanish II course.

Chinese II (2002)

CGHS Course #: FL251

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1100 and up

Weighted Course: No Dual Credit: No

Prerequisite(s): Successful completion of Chinese I (B- or higher)

This course is designed to build on the foundations developed in Chinese I. Students will engage in written and spoken conversations on a variety of topics as well as examine, experience, and reflect on the relationships among the practices, products, and perspectives of Chinese culture using the target language as much as possible. Students will begin reading elementary level Chinese literature as well as begin writing brief weekly journals in Mandarin Chinese as well.

French III (2024)

CGHS Course #: FL311

Grade Level: 10, 11, 12

DOE Course #: 2024

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1200 and up

Weighted Course: No Dual Credit: No

Prerequisite(s): Successful Completion of French I & II (B- or Higher)

In French III students review the basic material learned in French I and French II before proceeding with the French III curriculum. This college-prep course requires students to be committed to learning vocabulary and grammar structures at a steady pace; therefore, good study skills and memorization are essential to be successful in French III. Students are able to respond to factual and interpretive questions and interact in a variety of social situations, to read for comprehension from a variety of authentic materials, to read short literary selections, to write summaries and brief compositions, to describe different aspects of the culture (using the world language where appropriate). Students are able to write, read, and understand more complex grammatical structures. Students will speak more in-depth and fluidly on many topics.

German III (2044)

CGHS Course #: FL321

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1200 and up

Weighted Course: No Dual Credit: No

Prerequisite(s): Successful completion of German I and II (B- or Higher) and a teacher recommendation

In German III students begin by reviewing material covered in levels I and II, before moving on to more complex grammatical structures and a broader variety of linguistic and cultural themes. More instruction is delivered in German and students are expected to speak more German in class. Students read, interpret, and respond to a greater number and variety of authentic materials including advertisements, brochures, short videos, and fairy tales. Students will be able to carry on more in-depth conversations and write interactive communication as well as compositions for presentation.

Spanish III (2124)

CGHS Course #: FL341

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1200 and up

Weighted Course: No Dual Credit: No

Prerequisite(s): Successful completion of Spanish I & II

Spanish III is a college-prep course and is intended to expand upon the grammar and vocabulary studies from Spanish I and II. Teacher uses more spoken Spanish in the classroom. Students are expected to participate in Spanish and are graded on the quantity of participation. Using Spanish, students respond to questions, interact in a variety of situations, read and respond to written Spanish materials, written paraphrases, summaries original writings, and describe different aspects of the culture. Spanish III enables the students to understand and appreciate Hispanic cultures by comparing the social behaviors and values of Spanish speaking people.

Spanish III Honors (2124)

CGHS Course #: FL343

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1200 and up

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Successful completion of Spanish I & II (B- or higher) and teacher recommendation

Spanish III Honors is intended to be a transitional course to prepare students for Advanced Placement Spanish 5. Students are expected to listen to, as well as speak, the Spanish language. This course includes all the skills required for Spanish 3 (see above). Pre-AP strategies will be implemented into the four language skills (reading, writing, speaking and listening) in order to prepare students for the AP Spanish Language Exam. In addition, this course will be faster paced and more rigorous.

Workplace Spanish (2136)

CGHS Course #: FL345

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1300

Weighted Course: No Dual Credit: No

Prerequisite(s): Successful completion of Spanish I & II (B- or higher) and teacher recommendation

Workplace Spanish is a course designed to fuse students' desired future career path with the use of the Spanish language in a variety of scenarios. This course will incorporate and emphasize relevant and practical skills in Spanish for future work-based environments in order to prepare them for interactions with fluent speakers of Spanish outside the classroom. Students will focus on culturally-appropriate interactions, both verbal and nonverbal, along with specific vocabulary that relates directly to students' chosen career path, ultimately connecting this course to a variety of content areas. A major focus of this course is on students' proficiency (both oral and written) and will use a high percentage of only Spanish in instruction and students' work production.

Chinese III (2004)

CGHS Course #: FL351

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1200 and up

Weighted Course: No Dual Credit: No

Prerequisite(s): Successful Completion of Chinese I & II (B- or Higher)

This course is designed to build on the prior two years of Chinese language instruction, which includes the acquisition of 350-400 Chinese characters (correct Romanization spelling, tonal marks, and written characters). This course will continue to emphasize the development of reading and listening comprehension skills, such as using radicals, stroke order, and stroke count to guess meaning. Students will present student-created material on a variety of topics as well as reading aloud to practice pronunciation. Students will also learn additional and more complex grammar patterns and conversational interactions with an increased focus on application. Students will continue reading at an elementary level in variety texts. There will be increased interactions between peers and teachers in Chinese. Upon completion of Chinese III, most students will be able to test-out of first-year university Chinese.

French IV (2026)

CGHS Course #: FL411

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1300 and up

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Successful Completion of French I, II, & III

In French IV students review the basic material learned in French I, II, and III before proceeding with the French IV curriculum. French 4 enables the students to respond to factual and interpretive questions, interact in social situations, and express opinions and make judgments, to give presentations on cultural topics, to read for comprehension from a variety of longer authentic materials, to write compositions on a given topic, and to begin using French creatively. Students are able to write, read, and understand more complex grammatical structures. Students will continue to speak more in-depth and fluidly about many topics.

German IV (2046)

GCGHS Course #: FL421

Grade Level: 11, 12

DOE Course #: 2046

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1300 and up

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Successful completion of German I, II, & III (B- or Higher) and a teacher recommendation

In German IV students will continue to build on the foundation of skills acquired in German I, II, and III. The course will be conducted primarily in German. Students will be able to speak and write more extensively on a wider variety of topics both

concrete and abstract. They will read and respond to longer and more complex authentic reading selections, and employ more advanced grammatical structures in both spoken and written German. Students will continue to make connections with cultural topics pertaining to German speaking countries. Some topics that will be covered in German IV include city life, work and career, nature and the environment.

Spanish IV (2126)

CGHS Course #: FL441

Grade Level: 11, 12

Length of Course: 2 Semesters

Credit(s): Two

Recommended Lexile: 1300 and up

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Successful completion of Spanish I-III (B- or higher) and teacher recommendation

Students in Spanish IV are expected to listen to, as well as speak, the Spanish language. Spanish IV enables the students to respond in Spanish to factual and interpretive questions, interact in social situations, express opinions and make judgments, to read for comprehension from a variety of longer authentic materials, to write compositions on a given topic, and to begin using Spanish creatively. In addition, students are aware of the relationship between various art forms in at least one major historical period, aware of one major literary, musical and artistic period and genre, are able to adjust speech appropriate to the situation and audience, and to participate appropriately in a variety of circumstances.

Spanish IV (Honors) (2126)

CGHS Course #: FL443

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1300 and up

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Successful completion of Spanish I-III (B- or higher) and teacher recommendation

Spanish IV Honors is intended as a transitional course to prepare students for Advanced Placement Spanish 5. This course includes all the skills, activities, and projects required for Spanish 4 (see above). In addition, this course will be faster paced, more rigorous, and will emphasize specific skills necessary to prepare students for the AP Spanish Language Exam.

Chinese IV (2006)

CGHS Course #: FL451

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1300 and up

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Successful completion of Chinese I, II, & III (B- or Higher)

This course is designed to build on the prior three-years of Chinese language instruction, which includes the acquisition of 550-600 Chinese characters (correct Romanization spelling, tonal

marks, and written characters.) This course will continue to emphasize the development of reading and listening comprehension skills, such as using radicals, stroke order, and stroke count to guess meanings. Students will present in Chinese in a variety of topics as well as reading aloud to practice pronunciation. Students will also begin reading intermediate level Chinese literature as well as writing in-depth weekly journals to enhance their skills. Additionally, Chinese IV will continue to incorporate Chinese in daily class and there will be increased interactions between peers and teachers in Chinese. Upon completion of Chinese IV, most students will be able to test-out of first-year university Chinese.

Chinese V AP* (2014)

CGHS Course #: FL551

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1400 and up

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Successful Completion of Chinese I, II, III, & IV (B- or Higher)

Chinese Language, Advanced Placement is based on content established by the College Board emphasizing the use of the French language for active communication; the AP French Language course has as its objective the development of Spoken Interpersonal Communication, Written Interpersonal Communication, Audio, Visual, and Audiovisual Interpretive Communication, Written and Print Interpretive Communication, Spoken Presentational Communication, Written Presentational Communication. Course content might best reflect interests shared by the students and the teacher, e.g. the arts, current events, sports, etc. Students develop language skills that can be applied to various activities and disciplines rather than being limited to any specific body of subject matter. Extensive practice in the organization and writing of compositions should also be emphasized.

French V AP (2032)

CGHS Course #: FL611

Grade Level: 11, 12

Length of Course: 2 Semesters

Credit(s): Two

Recommended Lexile: 1400 and up

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Successful completion of French I, II, III, & IV (B- or Higher)

French Language, Advanced Placement is based on content established by the College Board emphasizing the use of the French language for active communication, the AP French Language course has as its objective the development of Spoken Interpersonal Communication, Written Interpersonal Communication, Audio, Visual, and Audiovisual Interpretive Communication, Written and Print Interpretive Communication, Spoken Presentational Communication, Written Presentational Communication. Course content might best reflect interests shared by the students and the teacher, e.g. the arts, current events, sports, etc. Students develop language skills that can be applied to various activities and disciplines rather than being

limited to any specific body of subject matter. Extensive practice in the organization and writing of compositions should also be emphasized.

German V AP (2052)

CGHS Course #: FL621

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1400 and up

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Successful completion of German I, II, III, & IV (B- or Higher) and a teacher recommendation

German Language, Advanced Placement is based on content established by the College Board emphasizing the use of the German language for active communication, the AP German Language course has as its objective the development of Spoken Interpersonal Communication, Written Interpersonal Communication, Audio, Visual, and Audiovisual Interpretive Communication, Written and Print Interpretive Communication, Spoken Presentational Communication, Written Presentational Communication. Course content might best reflect interests shared by the students and the teacher, e.g. the arts, current events, sports, etc. Students develop language skills that can be applied to various activities and disciplines rather than being limited to any specific body of subject matter. Extensive practice in the organization and writing of compositions should also be emphasized.

Spanish V AP (2132)

CGHS Course #: FL641

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Recommended Lexile: 1400 and up

Weighted Course: Yes Dual Credit: No

Prerequisite(s): Successful completion of Spanish I-IV (B- or higher) and teacher recommendation

Spanish Language, Advanced Placement is a course based on the content established by the College Board. Emphasizing the use of the Spanish language for active communication, the AP Spanish Language course has as its objective the development of advanced listening comprehension, reading without the use of a dictionary, expanded conversational skills, fluent and accurate written expression, and strong command of vocabulary and structure of the Spanish language. Course content might best reflect interests shared by the students and the teacher, e.g. the arts, current events, sports, etc. The AP Spanish Language course seeks to develop language skills that are useful in themselves and that can be applied to various activities and disciplines rather than being limited to any specific body of subject matter. Extensive practice in the organization and writing of compositions should also be emphasize

SPECIAL SERVICES COURSE DESCRIPTIONS (SP)

Department Chair: Cathy Campolattara, campolattarac@centergrove.k12.in.us

Special Services staff teachers jointly with other staff members to assist students to be mainstreamed in regular education courses. Reinforcement of material will be covered through special study sessions, individual help, or tests being read aloud when needed. Student placement in these courses will be decided in the case conference.

Students who are not mainstreamed may be required to take the following classes on an "as needed" basis.

TAPS Math

CGHS Course #: LS107

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): 0

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Students will focus on improving consumer and real world math skills. Some areas of focus are: money, time, budgeting, paying for items at a store, multiplication/division, fractions and problem solving.

Discover Math

CGHS Course #: LS111

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): 0

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Students will work on math related skills related to the career modules in discover English. Students will also focus on improving consumer and real world math skills. Some areas of focus are: money, time, budgeting, paying for items at a store, multiplication/division, fractions, and problem solving.

TAPS English

CGHS Course #: LS125

Department: Special Services

Grade Level: 9, 10, 11, 12

Length: 2 Semesters

Credit(s): 0

Recommended Lexile: N/A

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Students will focus on improving reading fluency and reading comprehension. Students will focus on various forms of written language based on their individual needs.

Discover English

CGHS Course #: LS129

Grade Level: 10, 11, 12

Length: 2 Semesters

Credit(s): 0

Weighted Course: No Dual credit: No

Prerequisite(s): None

Students will work on a variety of English and vocational skills needed to attain meaningful, competitive employment in the community upon exiting school. Skills will be learned through the use of hands-on activities and a variety of mock manipulatives. Career modules include: food service assistant, caregiver, general office assistant, and retail/stock assistant. (Requires 2 spots in schedule, class meets every day).

Adult Roles

Grade Level: 9, 10, 11, 12

CGHS Course #: LS150

Length: 2 Semesters

Credit(s):

Weighted Course: No Dual Credit:

Prerequisite(s): None

Students will be exposed to skills that will benefit them in the transition from school to adult life. Some areas of focus are: banking, consumer math, planning and preparing meals (utilizing the food lab), managing personal relationships, personal hygiene, and other independent living skills.

Adapted Music

CGHS Course #: LS201

Grade Level: 9, 10, 11, 12

Length: 1 Semester

Credit(s):

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Students will work on note identification and value, musical instrument families and genres of music. Students will also learn different dance styles. This class will help students have a broader understanding of music.

Adapted Art

CGHS Course #: LS203

Grade Level: 9, 10, 11, 12

Length: 1 Semester

Credit(s):

Weighted Course: No Dual credit: No

Prerequisite(s): None

Students will be provided with the opportunity to perform various art techniques, make a variety of art projects and learn terms related to art and artwork. Students will be given the opportunity to use different mediums to express their artistic side.

Vocational

CGHS Course #: LS351

Grade Level: 11, 12

Length: 2 Semesters

Credit(s):

Weighted Course: No Dual credit: No

Prerequisite(s): None

Students will work on a variety of real world skills related to the world of work. Students will focus on complete interest inventories, exploring careers, and discussing life skills related to the world of work. students may also participate in school jobs.

Life Skills

CGHS Course #: LS353

Grade Level: 9, 10, 11, 12

DOE Course #:

Length: 2 Semesters

Credit(s):

Weighted Course: No Dual Credit: No

Prerequisite(s): None

The Life Skills class focuses on various social and functional academic skills. Various forms of written language will be covered based on students' individual needs. Students will also focus on improving consumer and real world math skills. Social skills such as respecting the rights of others, communication/listening, turn talking, resolving conflicts, and decision making will be taught.

Careers

CGHS Course #: LS355

Grade Level: 9, 10, 11, 12

DOE Course #:

Length: 2 Semesters

Credit(s):

Weighted Course: No Dual credit: No

Prerequisite(s): None

Students will work on a variety of real world skills related to the world of work. Students will focus on completing interest inventories, exploring careers and discussing life skills related to the world of work. Students may also participate in school jobs and community job experiences. (Job training contract required)

Community & Jobs

CGHS Course #: LS357

Grade Level: 11, 12

Length: 2 Semesters

Credit(s):

Weighted Course: No

Prerequisite(s): None

The Community & Jobs class focuses on taking the life skills learned as an underclassmen and applying them to the community and job setting. Students will take regular trips to community and job sites. Curriculum will also be utilized in the classroom to reinforce topics

C-9 COURSE DESCRIPTIONS (C-9)

AUTOMOTIVE COLLISION REPAIR TECHNOLOGY II (5544)

CGHS Course #: ACRT5

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Automotive Collision Repair Technology I

Automotive Collision Repair Technology II introduces concepts in auto paint considerations with emphasis on the handling of materials and equipment in modern automotive technologies. Instruction should build on concepts learned in Automotive Collision Repair Technology I such as computerized frame diagnosis, computerized color-mixing, and computerized estimating of repair cost. Additional academic skills taught in this course include precision measurements and mathematical calibrations as well as scientific principles related to adhesive compounds, color-mixing, abrasive materials, metallurgy, and composite materials.

AUTOMOTIVE COLLISION REPAIR TECHNOLOGY I (5514)

Department: C-9

Grade Level: 11, 12

CGHS Course #: ACRT1

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Automotive Collision Repair Technology I includes classroom and laboratory experiences concerned with all phases of the repair of damaged vehicle bodies and frames, including metal straightening; smoothing areas by filing, grinding, or sanding; concealment of imperfections; painting; and replacement of body components including trim. Students examine the characteristics of body metals including the installation of moldings, ornaments, and fasteners with emphasis on sheet metal analysis and safety. Course coverage also includes instruction in personal environmental safety practices as related to OSHA and other agencies that affect principles and automotive fasteners. Instruction should also emphasize computerized frame diagnosis, computerized color-mixing, and computerized estimating of repair costs. Additional academic skills taught in this course include precision measurement and mathematical calibrations as well as scientific principles related to adhesive compounds, color-mixing, abrasive materials, metallurgy, and composite materials.

AUTOMOTIVE SERVICES TECHNOLOGY II (5546)

CGHS Course #: AST5

Department: C-9

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No

Dual Credit: Yes

Prerequisite(s): None

Automotive Services Technology II is a one year course that encompasses the sub topics of the NATEF/ASE identified areas of Electrical Systems and Engine Performance. This one year course offering may be structured in a series of two topics per year offered in any combination of instructional strategies of semester based or yearlong instruction. Additional areas of manual transmissions/differentials, automatic transmissions, air conditions, and engine repair should be covered as time permits. This one-year offering must meet the NATEF program certifications for the two primary areas offered in this course. Mathematical skills will be reinforced through precision measuring activities and cost estimation/calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors.

AUTOMOTIVE SERVICES TECHNOLOGY I (5510)

CGHS Course #: AST1

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Recommended Lexile: N/A

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Automotive Services Technology is a one year course that encompasses the sub topics of the NATEF/ ASE identified areas of Steering & Suspension and Braking Systems. This one year course offering may be structured in a series of two topics per year offered in any combination of instructional strategies of semester based or yearlong instruction. Additional areas of manual transmissions and differentials, automatic transmissions, air conditioning, and engine repair should be covered as time permits. This one year offering must meet the NATEF program certifications for the two primary areas offered in this course. This course provides the opportunity for dual credit for students who meet postsecondary requirements for earning dual credit and successfully complete the dual credit requirements of this course. Mathematical skills will be reinforced through precision measuring activities and cost estimation/calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors.

AVIATION MAINTENANCE (5520)

CGHS Course #: AVMT1

Grade Level: 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Accuplacer Scores minimum - Reading 59; Sentence Skills 68; Algebra 40

Aviation Maintenance is a comprehensive course that familiarizes the student with Federal Aviation Regulations, weight and balance, ground operation, maintenance forms and records, non-destructive/testing methods, aircraft paint and refinishing systems and the basics of aircraft welding. The course also covers various onboard systems including cabin atmospheric control systems, pressurization and fire detection/extinguishing systems. This course familiarizes students with the inspection, damage evaluation and repair of composite and wood structures, windows and fabric covering systems used on aircraft. Central Nine Career Center works with Vincennes University for instructional services. During the senior year, the student has the potential to earn up to eight credits toward high school graduation as well as 16 credits toward the freshman year in college. Certification: (FAA) Students can be certified by the Federal Aviation Administration only after they successfully completed an approved course of study (two-year or four-year program_ such as the one offered through Vincennes University.

AVIATION OPERATIONS/AVIATION FLIGHT (5528 & 5524)

CGHS Course #: AVSO1, AVSO2

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Aviation Operations provides students with a broad-based introduction to the field of aviation. Course activities include: familiarization with aviation technology, a historic overview of the field of aviation; exploration of the current aviation environment and careers and employment opportunities in the field. Topics are focused on aircraft manufacturing, airline operations, general aviation, air-freight, airport management, and government service. Additional topics covered include: aviation safety, human factors, regulations, and certification. This course is designed to enhance the students' knowledge of the pertinent areas of aircraft basic science that comprise the scientific fundamentals applied in all areas of the aviation industry. Although not scientific in nature, the fundamental areas of the federal aviation regulations, pertinent to aviation operations, are also introduced in this course.

PRINCIPLES OF BIOMEDICAL SCIENCES PLTW (5218)

CGHS Course #: BIOM1

Grade Level: 11, 12

Length: 1 Semester

Credit(s): Three

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

PLTW Principles of the Biomedical Sciences provides an introduction to this field through hands-on projects and problems. Student work involves the study of human medicine, research processes and an introduction to bioinformatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, hypercholesterolemia, and infectious diseases. A theme through

the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate lifestyle choices and medical treatments that might have prolonged the person's life. Key biological concepts included in the curriculum are: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease. Engineering principles such as the design process, feedback loops, fluid dynamics, and the relationship of structure to function will be included where appropriate. The course is designed to provide an overview of all courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses.

HUMAN BODY SYSTEMS PLTW (5216)

CGHS Course #: BIOM3

Grade Level: 11, 12

Length of Course: 1 Semester

Credit(s): Three

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

PLTW Human Body Systems is a course designed to engage students in the study of basic human physiology and the care and maintenance required to support the complex systems. Using a focus on human health, students will employ a variety of monitors to examine body systems (respiratory, circulatory, and nervous) at rest and under stress, and observe the interactions between the various body systems. Students will use appropriate software to design and build systems to monitor body functions.

ANATOMY & PHYSIOLOGY (5276)

CGHS Course #: HCI3

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Anatomy & Physiology is a course in which students investigate concepts related to Health Science, with emphasis on interdependence of systems and contributions of each system to the maintenance of a healthy body. Introduces students to the cell, which is the basic structural and functional unit of all organisms, and covers tissues, integument, skeleton, muscular and nervous systems as an integrated unit. Through instruction, including laboratory activities, students apply concepts associated with Human Anatomy & Physiology. Students will understand the structure, organization and function of the various components of the healthy body in order to apply this knowledge in all health related fields.

MEDICAL INTERVENTIONS PLTW (5217)

CGHS Course #: BIOM5

Grade Level: 11, 12

Length: 1 Semester

Credit(s): Four

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Principles of Biomedical Sciences, and Human Body Systems

PLTW Medical Interventions is a course that studies medical practices including interventions to support humans in treating disease and maintaining health. Using a project-based learning approach, students will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthesis, rehabilitation, and supportive care. Students will also study the design and development of various interventions including vascular stents, cochlear implants, and prosthetic limbs. Lessons will cover the history of organ transplants and gene therapy with additional readings from current scientific literature addressing cutting edge developments. Using 3-D imaging software, students will design and build a model of a therapeutic protein.

PLTW BIOMEDICAL INNOVATION (5219)

CGHS Course #: BIOM7

Grade Level: 11, 12

DOE Course #: 5219

Length: 1 Semester

Credit(s): Four

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Principles of Biomedical Sciences, and Human Body Systems

PLTW Biomedical Innovation is a capstone course designed to give students the opportunity to design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office, or industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community.

CONSTRUCTION TRADES: HVAC II (5498)

CGHS Course #: BT7

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Construction Trades HVAC I

Construction Trades: HVAC II builds on concepts introduced in HVAC I. This course will emphasize reading blueprints and other technical documents, as well as troubleshooting common mechanical and electrical problems encountered when servicing HVAC systems. Additional topics include: combustion testing, venting and air requirements, electrical control systems, and electrical motor basics. Students will hone their science and math skills in HVAC system installation, maintenance, or repair projects.

CONSTRUCTION TRADES II (5578)

CGHS Course #: BT6

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Construction Trades II builds on the topics covered in Construction Technology I and includes: formation, installation, maintenance, and repair of buildings, homes, and other structures including recent trends in the residential construction industry. Information is presented concerning materials, occupations, and professional organizations within the industry. Students will develop basic knowledge, skills, and awareness of interior trim. This course provides training in installation of drywall, moldings, interior doors, kitchen cabinets, and baseboard moldings. Students will also develop skills in the finishing of building exteriors. They will also explore skills in the installation of cornices, windows, doors and various types of sidings used in today's marketplace. Additionally, the course covers design and construction of roof systems and using framing squares for traditional rafter and truss roofing.

CULINARY ARTS & HOSPITALITY MANAGEMENT (5440)

CGHS Course #: CA1

Grad Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Culinary Arts and Hospitality Management prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the hospitality industry. This course builds a foundation that prepares students to enter the Advanced Culinary Arts or Advanced Hospitality courses. Major topics include: introduction to the hospitality industry; food safety and personal hygiene; sanitation and safety; regulations, procedures, and emergencies; basic culinary skills; culinary math; and food preparation techniques and applications; principles of purchasing, storage, preparation, and service of food and food products; application of sanitation and safety principles to maintain safe and healthy food service and hospitality environments; use and maintenance of related tools and equipment; and application of management principles. Intensive, teacher monitored standards-based laboratory experiences with commercial applications are required and may be either school-based or "on-the-job" or a combination of the two. Work-based experiences in the food industry are strongly encouraged. Articulation with postsecondary programs is encouraged.

CULINARY ARTS & HOSPITALITY II/ADVANCED HOSPITALITY MANAGEMENT (5346)

CGHS Course #: CA2

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Six

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Culinary Arts & Hospitality Management 5440

Advanced Culinary Arts prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the food industry, including (but not limited to) food production and services; food science, dietetics, and nutrition; and baking and pastry arts. Major topics for this

advanced course include: basic baking theory and skills, introduction to breads, introduction to pastry arts, nutrition, nutrition accommodations and adaptations, cost control and purchasing, and current marketing and trends. Instruction and intensive laboratory experiences include commercial applications of principles of nutrition, aesthetic, and sanitary selection; purchasing, storage, preparation, and service of food and food products; using and maintaining related tools and equipment; baking and pastry arts skills; managing operations in food service, food science, or hospitality establishments; providing for the dietary needs of persons with special requirements; and related research, development, and testing.

ADVANCED HOSPITALITY MANAGEMENT (5458)

CGHS Course #: CA6

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Culinary Arts and Hospitality Management

Advanced Hospitality Management prepares students for employment in the hospitality industry. It provides the foundations for study in higher education that leads to a full spectrum of hospitality careers. This is a broad-based course that introduces students to all segments of hospitality, what it includes, and career opportunities that are available; provides a survey of management functions, highlighting basic theories and facts; and exposes students to current trends and current events within the industry. Three major goals of this course are for students to be able to: Identify current trends in hotel and restaurant management, distinguish the difference between hospitality and tourism, and state differences in front of the house versus back of the house. Intensive experiences in one or more hospitality industry settings are a required component of the course. A standards-based plan for each student guides the industry experiences. Students are monitored in their industry experiences by the Advanced Hospitality Management teacher. Industry experiences may be either school-based or on the job in community-based hospitality settings, or in a combination of the two. This course is the capstone exponent that focuses on the daily operations, hospitality and management of To The Nines Restaurant.

COSMETOLOGY I & II (5802)

CGHS Course #: CO1

Grade Level: 11 through 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: No

Prerequisite(s): None

Cosmetology I offers an introduction to cosmetology with emphasis on basic practical skills and theories including roller control, quick styling, shampooing, hair coloring, permanent waving, facials, manicuring business and personal ethics, and bacteriology and sanitation. In the second semester greater emphasis is placed on the application and development of these skills. The State of Indiana requires a total of 1500 hours of instruction for licensure. Clock hours set by the State Licensing

Board. Certification: (Indiana State Beauty Board License) Students successfully completing the procedures and 1,500 hours of required class time are eligible to take the Indiana State Beauty Board examination to become a licensed cosmetologist. Central Nine Career Center works with Paul Mitchell the School Indianapolis for instructional services. Students must provide their own transportation to Paul Mitchell the School Indianapolis

DENTAL CAREERS I (5203)

CGHS Course #: DA1

Grade Level: 11, 12

DOE Course #: 5203

Length of Course: 2 Semesters

Credit(s): Six

Recommended Lexile: N/A

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Dental Careers I prepares the student for an entry level dental assisting position. Emphasis is placed on the clinical environment, chair-side assisting, equipment/instrument identification, tray set-ups, sterilization, and characteristics of microorganisms and disease control. In addition, oral, head and neck anatomy, basic embryology, histology, tooth morphology, charting dental surfaces, and illness are all introduced. Simulated in-school laboratories and/or extended laboratory experiences are also included to provide opportunities for students to further develop clinical skills and the appropriate ethical behavior. Leadership skills are developed and community service provided through HOSA. Students have the opportunity to compete in a number of competitive events at both the state and national level.

Certification: DANB: Dental Assisting National Board

DENTAL MEDICAL TERMINOLOGY (5274)

CGHS Course #: DA3

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information. Students have the opportunity to acquire skills in interpreting medical records and communications accurately and logically. Emphasis is on forming a foundation for a medical vocabulary including meaning, spelling, and pronunciation. Medical abbreviations, signs, and symbols are included.

DENTAL CAREERS II (5204)

CGHS Course #: DA5

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Dental Careers I & Dental Medical Terminology

Dental Careers II is a course designed to provide the dental assisting student with specific knowledge of administrative planning, book-keeping, recall programs, banking, tax records, computer software, insurance, office practice and management as related to the dental office. In addition, students will practice Oral and Maxillofacial Surgery, Periodontics, Endodontic, Prosthodontics, Pediatric Dentistry, and Orthodontics. Opportunity for increased skill development in clinical support and business office procedures is routinely provided. The importance of the clinical behavior of materials and biological factors are also stressed. Leadership skills are developed and community service provided through HOSA. Students have the opportunity to compete in a number of competitive events at both the state and national level. Certification: DANB: Dental Assisting National Board

DIESEL SERVICE TECHNOLOGY I (5620)

CGHS Course #: DST1

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Diesel Services Technology I introduces students to engine operating principles and theories as well as diesel fuel systems and hands-on training related to modern diesel engines. The course covers inspection, troubleshooting, overhaul and engine replacement procedures. And includes classroom and laboratory experiences concerned with all phases of repair work on diesel engines used to power buses, ships, trucks, railroad trains, electrical generators, construction machinery, and similar equipment. Instruction and practice is provided in the diagnostics and repair of engines. Students will demonstrate performance of these tasks as defined by ASE/NATEF-standards. Use of technical manuals, hand and power tools and of testing and diagnostic equipment are also studied in the course.

EARLY CHILDHOOD EDUCATION I (5412)

CGHS Course #: ERCH I

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Early Childhood education I prepares students for employment in early childhood education and related careers that involve working with children from birth to 8 years (3rd grade) and provides the foundations for study in higher education that leads to early childhood education and other child-related careers. A project-based approach that utilizes higher order thinking, communication, leadership, and management processes is recommended in order to integrate the study of suggested topics.

Major course topics include: career paths in early childhood education; promoting child development and learning; building family and community relationships; observing, documenting, and assessing to support young children and families; using developmentally effective approaches; using content knowledge

to build a meaningful curriculum, and becoming an early childhood education professional.

The course provides an overview of the history, theory, and foundations of early childhood education as well as exposure to types of programs, curricula, and services available to young children. Students examine basic principles of child development, importance of family, licensing, and elements of quality care of young children. The course addresses planning and guiding developmentally appropriate activities for young children in various childcare settings; developmentally appropriate practices of guidance and discipline; application of basic health, safety, operation of licensed childcare facilities or educational settings; childcare regulations and licensing requirements; and employability skills.

EMERGENCY MEDICAL SERVICES (5210)

CGHS Course #: EMS1

Grade Level: 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Emergency Medical Services prepares students for a State certification which could lead to a career in Emergency Medical Services such as an Emergency Medical Technician or a Paramedic. This course is designed for persons desiring to perform emergency medical care. Students will learn to recognize the seriousness of the patient's condition, use the appropriate emergency care techniques and equipment to stabilize the patient, and transport them to the hospital. This course also addresses the handling of victims of hazardous materials accidents. It covers theories, techniques, and operational aspects of pre-hospital emergency care with the scope and responsibility of the basic emergency medical technician. It requires laboratory practice and clinical observation in a hospital emergency room and ambulance. Participation in HOSA affords the student the opportunity to compete in a variety of competitive events, specifically CPR/First Aid and EMT, at both the state and national level. Students must be 18 before April 1, Certification: EMT Basic

COMPUTER TECHNOLOGY SUPPORT (5230)

CGHS Course #: ETI

Grade Level: 11, 12

Length of Course: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Computer Tech Support allows students to explore how computers work. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands-on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems.

FIRE AND RESCUE I (5820)

CGHS Course #: FS1

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Fire and Rescue I; Every year, fires and other emergencies take thousands of lives and destroy property worth billions of dollars. Firefighters and emergency services workers help protect the public against these dangers by rapidly responding to a variety of emergencies. They are frequently the first emergency personnel at the scene of a traffic accident or medical emergency and may be called upon to put out a fire, treat injuries or perform other vital functions. The Fire and Rescue curriculum may include five Indiana state fire certifications: (1) Mandatory, (2) Firefighter I, (3) Firefighter II, (4) Hazardous Materials Awareness, (5) Hazardous Materials Operations. An additional two industry certifications may be earned by adding (6) First Responder, and (7) Emergency Medical Technician-Basic to the curriculum. Students must be 17 before April 1

GRAPHIC DESIGN AND LAYOUT (5550)

CGHS Course #: GIT1

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Graphic Design and Layout includes organized learning experiences that incorporate a variety of visual art techniques as they relate to the design and execution of layouts and illustrations for advertising, displays, promotional materials, and instructional manuals. Instruction also covers advertising theory and preparation of copy, lettering, posters, and artwork in addition to incorporation of photographic images. Communication skills will be emphasized through the study of effective methods used to design commercial products that impart information and ideas. Advanced instruction might also include experiences in various printing processes as well as activities in designing product packaging and commercial displays or exhibits.

GRAPHIC IMAGING TECHNOLOGY (5572)

CGHS Course #: GIT5

Grade Level: 11, 12

DOE Course #: 5572

Length of Course: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Graphic Imaging Technology will include organized learning experiences that focus on theory and laboratory activities in pre-press, press and finishing operations. Emphasis will be placed on elements of design and layout leading to computerized electronic image generation, plate preparation, pressroom operations, and finishing techniques. Instructional activities will enhance student's language arts skills through the use of proofreading, spelling, and punctuation exercises. The course will include actual production processes in conjunction with classroom assignments embracing the technologies of printing, publishing, packaging, electronic imaging, and their allied

industries. Certification: (GAERF PrintED) the program is accredited by Graphic Arts Education and Research Foundation (GAERF) PrintED, ensuring quality curriculum and instruction. Students may take an online examination at the completion of the program.

HEALTH SCIENCE EDUCATION I, Anatomy & Physiology, Medical Terminology (5282, 5276, 5274)

CGHS Course #: HCI1

Grade Level: 11, 12

DOE Course #: 5282, 5276, 5274

Length: 2 Semesters

Credit(s): Four

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Health Science Education I content includes skills common to specific health career topics such as patient nursing care, dental care, animal care, medical laboratory, public health, an introduction to health care systems, anatomy, physiology, and medical terminology. Leadership skills developed through HOSA participation are also included. Lab experiences are organized and planned around the activities associated with the student's career objectives. Job seeking and job maintenance skills, personal management skills, self-analysis to aid in career selection and completion of the application process for admission into a post-secondary program of their choice are also included in this course. Anatomy and Physiology and Medical Terminology is taught in conjunction with Health Science Education 1. Anatomy & Physiology is a course in which students investigate concepts related to Health Science, with emphasis on interdependence of systems and contributions of each system to the maintenance of a healthy body. Introduces students to the cell, which is the basic structural and functional unit of all organisms, and covers tissues, integument, skeleton, muscular and nervous systems as an integrated unit. Through instruction, including laboratory activities, students apply concepts associated with Human Anatomy & Physiology. Students will understand the structure, organization and function of the various components of the healthy body in order to apply this knowledge in all health related fields. Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information. Students have the opportunity to acquire skills in interpreting medical records and communications accurately and logically. Emphasis is on forming a foundation for a medical vocabulary including meaning, spelling, and pronunciation. Medical abbreviations, signs, and symbols are included.

ANATOMY & PHYSIOLOGY (5276)

CGHS Course #: HCI3

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Anatomy & Physiology is a course in which students investigate concepts related to Health Science, with emphasis on interdependence of systems and contributions of each system to the maintenance of a healthy body. Introduces students to the cell, which is the basic structural and functional unit of all organisms, and covers tissues, integument, skeleton, muscular and nervous systems as an integrated unit. Through instruction, including laboratory activities, students apply concepts associated with Human Anatomy & Physiology. Students will understand the structure, organization and function of the various components of the healthy body in order to apply this knowledge in all health related fields.

MEDICAL TERMINOLOGY (5274)

CGHS Course #: HCI5

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information. Students have the opportunity to acquire skills in interpreting medical records and communications accurately and logically. Emphasis is on forming a foundation for a medical vocabulary including meaning, spelling, and pronunciation. Medical abbreviations, signs, and symbols are included.

HEALTH SCIENCE EDUCATION II: NURSING (5284)

CGHS Course #: HCP1

Grade Level: 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Application and Interview with instructor

Health Science Education II: Nursing is an extended laboratory experience at the student's choice of clinical site designed to provide students the opportunity to assume the role of nurse assisting and practice technical skills previously learned in the classroom, including information on the health care system and employment opportunities at a variety of entry levels, an overview of the health care delivery systems, health care teams and legal and ethical considerations. It prepares students with the knowledge, skills and attitudes essential for providing basic care in extended care facilities, hospitals and home health agencies under the direction of licensed nurses. These knowledge and skills include recording patient medical histories and symptoms, providing medicine and treatments, consulting doctors, operating and monitoring medical equipment, performing diagnostic tests, teaching patients and families how to manage illness or injury, and perform general health screenings. This course also provides students with the knowledge, attitudes, and skills needed to make the transition

from school to work in the field of nurse assisting, including self-analysis to aid in career selection, job seeking and job maintenance skills, personal management skills, and completion of the application process for admission into a post-secondary program. Students will also participate in HOSA, the health science student organization that encourages development of leadership, communication, community service and health care related skills. TRANSPORTATION IS THE RESPONSIBILITY OF THE STUDENT TO AND FROM CLINICAL AND WORK SITES. Equipment and Documents required: HSEII-course scrubs, physical exam, 2-step PPD, criminal background check, NSO liability insurance, up-to-date immunization record, original birth certificate. Certification: CNA (Certified Nursing Assistant) Students who successfully complete the academic and attendance requirements will qualify to sit for the certification exam.

HEALTH SCIENCE II: SPECIAL TOPICS: (MEDICAL ASSISTING) (5286)

CGHS Course #: IMA1

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Health Science Education II: Special Topics is an extended laboratory experience designed to address the advancement and specialization of health care careers allowing schools to provide a specialized course for a specific healthcare workforce need in the school's region. The practicum experience is designed to provide students the opportunity to assume the role of a health care provider and practice technical skills previously learned in the classroom, including information on the health care system and employment opportunities at a variety of entry levels, an overview of the health care delivery systems, health care teams, and legal and ethical considerations. It prepares students with the knowledge, skills and attitudes essential for providing basic care in extended care facilities, hospitals and home health agencies under the direction of licensed health practitioners. This course also provides students with the knowledge, attitudes, and skills needed to make the transition from school to work in health science careers, including self-analysis to aid in career selection, job seeking and job maintenance skills, personal management skills, and completion of the application process for admission into a post-secondary program. Course standards and curriculum must be tailored to the specific healthcare profession preparing students to advance in this career field and should also provide students with opportunities for certification or dual credit. JOSA, the health science student organization, encourages development of leadership, communication, community service and health care related skills. Medical Assisting is taught through Kaplan College.

HEALTH SCIENCE II: SPECIAL TOPICS: (EXERCISE SCIENCE) (5286)

CGHS Course #: ES1

Grade Level: 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Health Science I -or- Comparable Science Core/Electives

Health Science Education II: Special Topics is an extended laboratory experience at a qualified clinical site designed for students to observe and shadow a professional in the field. In the classroom component, students will learn about the various careers in Exercise Science, including information on the health care system and employment opportunities at a variety of entry levels, an overview of the health care delivery systems, health care terms, and legal and ethical considerations. It prepares students with the knowledge, skills and attitudes essential for exposure to careers in Exercise Science.

COMPUTER SCIENCE II: PROGRAMMING/DATABASES (5236/5250)

CGHS Course #: ITISS1, ITISS2

Grade Level: 11, 12

DOE Course #: 5236/5250

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Computer Programming II explores and builds skills in C++ and Java. The study of C++ provides a basic understanding of the fundamentals of procedural program development using structured, modular concepts. Emphasizes logical program design involving user-defined functions and standard structure elements. Discussions will include the role of data types, variables structures, addressable memory locations, arrays and pointers. Data files access methods are also presented. The development of Java programming skills will provide a basic understanding of the fundamental concepts with an emphasis on logical program design using a modular approach which involves task oriented program functions. Java allows the design of an Internet user interface. The application is built by selecting forms and controls assigning properties and writing code. We also offer ZERO hour early college from 7:00-8:30am and this year they are in DOE 5252. Next year they are in 5236 4 semesters.

VETERINARY CAREERS I (5211)

CGHS Course #: IVA1

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Six

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Veterinary Careers I is a lab intensive course that introduces students to animal care and veterinary medicine while using field experiences to attain necessary skills. Students will learn and demonstrate standard protocols used in veterinary careers. This course also provides students with the knowledge, attitudes, and skills needed to make the transition from school to work in health science careers, including self-analysis to aid in career selection, job seeking and job maintenance skills, personal management skills, and completion of the application process for admission into a post-secondary program. Participation in HOSA or FFA encourages development of leadership, communication, community service and career related skills.

VET CAREERS: MEDICAL TERMINOLOGY (5274)

CGHS Course #: IVA2

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information. Students have the opportunity to acquire skills in interpreting medical records and communications accurately and logically. Emphasis is on forming a foundation for a medical vocabulary including meaning, spelling, and pronunciation. Medical abbreviations, signs, and symbols are included.

VETERINARY CAREERS II (5212)

CGHS Course #: IVA5

Grade Level: 12

DOE Course #: 5212

Length: 2 Semesters

Credit(s): Two

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Veterinary Careers I and Vet Careers: Medical Terminology. Must also apply and interview with an instructor for Work-based learning.

Veterinary Careers II is designed as an extended laboratory experience at the student's choice of clinical site; usually clinics, animal hospitals, or research laboratories, designed to provide students the opportunity to assume the role of a veterinary assistant and practice technical skills previously learned in the classroom, including information on the health care system and employment opportunities at a variety of entry levels, an overview of the health care delivery system, health care teams and legal and ethical considerations. It prepares students with the knowledge, skills and attitudes essential for providing basic care in extended care facilities, hospitals, and home health agencies under the direction of licensed veterinarians. In addition, students will learn skills for monitoring and caring for animals before and after surgery, maintain and sterilize surgical instruments, clean and disinfect kennels and operating rooms, provide emergency first aid to animals, give medication, do routine lab tests, feed and bathe animals, and collect fluid or tissue samples. This course also provides students with the knowledge attitudes and skills needed to make the transition from school to work in health science careers, including self-analysis to aid in career selection, job seeking and job maintenance skills, personal management skills, and completion of the application process for admission into a post-secondary program. Participation in HOSA or FFA encourages development of leadership, communication, community service and career related skills.

VET CAREERS/WORK BASED LEARNING (5974)

CGHS Course #: IVA7

Grade Level: 12
Length: 2 Semesters

Credit(s): Six

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Veterinary Careers I and Vet Careers: Medical Terminology. Must also apply and interview with an instructor for Work-based learning.

Work Based Learning Multiple Pathway is an instructional strategy that can be implemented as a stand-alone course or a component of any CTE course that prepares students for college and career. This strategy builds students' skills and knowledge in their chosen career path or furthers their study within the area of interest. A standards based training plan is developed by experiences and assists in evaluating achievement and performance, whether WBL is a stand-alone course or a component of a discipline-specific CTE course. In the stand-alone WBL courses, students have the opportunity to apply the concepts, skills, and dispositions learned in previous coursework in their pathways in real world business and industry settings. Therefore, at least two courses in a student's pathway would be prerequisite to the student enrolling in the stand-alone WBL courses. Students are monitored in their experiences by the content-related CTE teacher or a CTE teacher needs to be the teacher for the comprehensive course.

CRIMINAL JUSTICE I (5822)

CGHS Course #: LE1

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Criminal Justice I includes specialized classroom and practical experiences related to public safety occupations such as law enforcement, loss protection services, and homeland security. This course provides an introduction to the purposes, functions, and history of the three primary parts of the criminal justice system as well as an introduction to the investigative process. Oral and written communication skills should be reinforced through activities that model public relations and crime prevention efforts as well as the preparation of police reports. This course provides the opportunity for dual credit for students who meet postsecondary requirements for earning dual credit and successfully complete the dual credit requirements for this course.

CRIMINAL JUSTICE II (5824)

CGHS Course #: LE5

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Recommended Lexile: N/A

Weighted Course: No Dual Credit: Yes

Prerequisite(s): Criminal Justice I

Criminal Justice II introduces students to concepts and practices in controlling traffic as well as forensic investigation at crime scenes. Students will have opportunities to use mathematical skills in crash reconstruction and analysis activities requiring

measurements and performance of speed/acceleration calculations. Additional activities simulating criminal investigations will be used to teach scientific knowledge related to anatomy, biology, and chemistry as well as collection of evidence and search for witnesses, developing and questioning suspects, and protecting the integrity of physical evidence found at the scene and while in transit to a forensic science laboratory. Procedures for the use and control of informants, inquiries keyed to basic leads, and other information-gathering activity and chain of custody procedures will also be reviewed.

LANDSCAPE MANAGEMENT I & HORTICULTURE SCIENCE (5136, 5132)

CGHS Course #: LMHT1, LMHT3

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Landscape Management is a two semester course that provides the student with an overview of the many career opportunities in the diverse field of landscape management. Students are introduced to the procedures used in the planning and design of a landscape using current technology practices, the principles and procedures of landscape construction, the determination of maintenance schedules, communications and management skills necessary in landscape operations and the care and use of equipment utilized by landscapers. Students will also participate in leadership development, supervised agricultural experience and career exploration activities in the area of landscape management. Upon completion of the program, students have the opportunity to become Indiana Landscape Industry Certified through a state approved program. Students who are enrolled in Landscape Management also participate in Central Nine FFA. Landscape Management is taught in conjunction with Horticultural Science. Horticulture Science is a two semester course designed to give students a background in the field of horticulture and its many career opportunities. It addresses the biology and technology involved in the production, processing and marketing of plants and its products. Topics covered include: reproduction and propagation of plants, plant growth, growth media, management practices for field and greenhouse production, marketing concepts, production of plants of local interest and pest management. Students participate in a variety of activities to include extensive laboratory work usually in a school greenhouse, leadership development, supervised agricultural experience and learning about career opportunities in the area of horticulture science.

Landscape Management is taught in conjunction with Horticultural Science.

LANDSCAPE MANAGEMENT II & PLANTS AND SOIL SCIENCE (5137, 5170)

CGHS Course #: LMHT5, LMHT6

Grade Level: 11, 12

Length: 2 Semesters

Credit(s): Eight

Weighted Course: No Dual Credit: Yes

Prerequisite(s): None

Landscape Management II is a two semester course that extends the content and skills of Landscape Management and provides the student with in-depth exploration of the many career opportunities in the diverse field of landscape management. Students continue to build knowledge and skill in the procedures used in landscape planning and design using current industry standards and practices. Extended laboratory experiences include application of the principles and procedures involved especially in the Midwest and Great Lakes areas with landscape construction; turf management; scheduling and oversight of landscape maintenance; weed control; non-pathogenic and disease prevention, diagnosis, and treatment; communications; management skills necessary in landscaping operations and the use and maintenance of equipment utilized by landscapers. Students should also participate in leadership development, supervised agricultural experience and career exploration activities in the area of landscape management. Advanced Life Science: Plants and Soils is a two semester course that provides students with opportunities to participate in a variety of activities which includes laboratory work. Students study concepts, principles and theories associated with plants and soils. Students recognize how plants are classified, grown, function and reproduce. Students explore plant genetics and the use of plants by humans. They examine plant evolution and the role of plants in ecology. Students investigate, through laboratory and fieldwork, how plants function and the influence of soil in plant life.

WORK BASED LEARNING (5974)

CGHS Course #: PCI1
Grade Level: 12
Length: 2 Semesters
Credit(s) Four to Eight
Weighted Course: No
Prerequisite(s): Must apply and interview with instructor
Work Based Learning Multiple Pathway is an instructional strategy that can be implemented as a stand-alone course or a component of any CTE course that prepares students for college and career. This strategy builds students' skills and knowledge in their chosen career path or furthers their study within the area of interest. A standards based training plan is developed by experiences and assists in evaluating achievement and performance, whether WBL is a stand-alone course or a component of a discipline-specific CTE course. In the stand-alone WBL courses, students have the opportunity to apply the concepts, skills, and dispositions learned in previous coursework in their pathways in real world business and industry settings. Therefore, at least two courses in a student's pathway would be prerequisite to the student enrolling in the stand-alone WBL courses. Students are monitored in their experiences by the content-related CTE teacher or a CTE teacher needs to be the teacher for the comprehensive course.

PRECISION MACHINING I (5782)

CGHS Course #: PMT1
Grade Level: 11, 12
Length: 2 Semesters
Credit(s): Eight
Weighted Course: No Dual Credit: Yes
Prerequisite(s): None

Precision Machining I is designed to provide students with a basic understanding of the precision machining processes used in industry, manufacturing, maintenance, and repair. The course instructs the student in industrial safety, terminology, tools and machine tools, measurement and layout. Students will become familiar with the setup and operation of power saws, drill presses, lathes, milling machines, grinders and an introduction to CNC (computer controlled) machines.

PRECISION MACHINING II (5784)

CGHS Course #: PMT5
Grade Level: 12
Length: 2 Semesters
Credit(s): Eight
Weighted Course: No Dual Credit: Yes
Prerequisite(s): Precision Machining I

Precision Machining II is a more in-depth study of skills learned in Precision Machining I with a stronger focus in CNC setup/operation/programming. Classroom activities will concentrate on precision set-up and inspection work as well as machine shop calculations. Students will develop skills in advanced machining and measuring parts involving tighter tolerances and more complex geometry. A continued focus on safety will also be included. Students must take Precision Machining I prior to signing up for Precision Machining II.

WELDING TECHNOLOGY I (5776)

CGHS Course #: WT1
Grade Level: 11, 12
DOE Course #: 5776
Length: 2 Semesters
Credit(s): Eight
Weighted Course: No Dual Credit: Yes
Prerequisite(s): None

Welding Technology I includes classroom and laboratory experiences that develop a variety of skills in oxy-fuel cutting and Shielded Metal Arc welding. This course is designed for individuals who intend to make a career as a Welder, Technician, Sales, Designer, Researcher or Engineer. Emphasis is placed on safety at all times. OSHA standards and guidelines endorsed by the American Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld and be prepared for college and career success.

WELDING TECHNOLOGY II (5778)

CGHS Course #: WT5
Grade Level: 12
Length: 2 Semesters
Credit(s): Eight
Weighted Course: No Dual Credit: Yes
Prerequisite(s): Welding Technology I
Welding Technology II builds on the Gas Metal Arc Welding, Flux Cored Arc Welding, Gas Tungsten Arc Welding, Plasma Cutting and Carbon Arc skills covered in Welding Technology I. Emphasis is placed on safety at all times. OSHA standards and guidelines endorsed by the

American Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through exercise that teach students how to weld and be prepared for college and career success.

2023-24
ACADEMIC GUIDE
CENTER GROVE HIGH SCHOOL

