

CAPE CENTRAL HIGH SCHOOL

PROGRAM OF STUDIES

2018 – 2019



1000 South Silver Springs Road
Cape Girardeau, Missouri 63703
(573) 335-8228

SCHEDULE CHANGES

The master schedule is developed as a result of student requests for classes. Considerable effort is invested to ensure that each student receives the schedule of her or his choice. It may be impossible to schedule first-choice electives due to the period the class is offered. Alternate electives may be substituted.

Student-initiated schedule changes will be considered prior to the start of the school year. Following the first day of classes, counselors will only make those schedule changes requested by teachers. Teacher recommendation changes must be made prior to the fifth day of the new semester. Any exception to this procedure must be approved by the principal.

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SCHOOL COUNSELING DEPARTMENT

The School Counseling Department is an integral part of the total educational process. At the senior high school level counselors are available to assist students with career planning, academic advising, scheduling, vocational decision making and post-secondary planning. The counselors also teach classroom lessons incorporating the Missouri Model Guidance Curriculum in all PAS/Advisory classes. Important information for parents is included in the guidance newsletter and posted on Central's website at www.capetigers.com

Students in grades 9-12 work with the same counselor throughout their high school years. The first letter of the student's last name is used to assign students for guidance services as follows:

A – E	Ms. Angela Mueller
F – L	Ms. Nita DuBose
M – R	Ms. Laura McClard
S – Z	Ms. Natalie Ries

Along with the Missouri Connections Program, publications and other printed materials are available in the Guidance Resource Room for Missouri colleges and universities, as well as a number of out-of-state schools. With the many decisions that seniors face, Central's Guidance Office provides the following for seniors to assist them with their planning: The Southeast Regional College Fair, a Financial Aid Workshop, enrollment workshops for students and parents, and a bi-monthly publication entitled For Seniors. For Seniors, a bi-monthly publication lists scholarships, and college entrance testing dates.

Position	Name	Telephone
Counselors	Ms. Angela Mueller muellera@capetigers.com Ms. Nita DuBose dubosem@capetigers.com Ms. Laura McClard mcclardl@capetigers.com Ms. Natalie Ries riesn@capetigers.com	(573) 334-1111
Career Center	Ms. Rebecca Peters petersj@capetigers.com	(573) 334-0826
Registrar	Ms. Jacki Ainsworth ainsworthj@capetigers.com	(573) 334-1111

HIGH SCHOOL GRADUATION REQUIREMENTS

A minimum of twenty-four (24) Carnegie units, grades 9-12, are required to be a graduate of Central High School. Most students earn an excess of the required number. The minimum requirements are as follows:

ENGLISH LANGUAGE ARTS 4 Units
English I, II, and III
One Elective Unit

SOCIAL STUDIES 3 Units
American History
A Civics test will be given in American History and successful completion of this test is required for graduation.
World History
Government / Modern American History
The United States and Missouri Constitution tests are given in Government and successful completion of these two tests is required for graduation.

MATHEMATICS 3 Units

SCIENCE 3 Units
Conceptual Physics in grade 9.
Biology is required in grade 11.

FINE ARTS 1 Unit
Art, Music, Drama

PRACTICAL ARTS ½ Unit
Family and Consumer Science, Industrial Technology, Business Education, Career Center courses

PHYSICAL EDUCATION 1 Unit
PE is required in grades 9 and 10.

PERSONAL FINANCE..... ½ Unit
Consumer Education or Finance Management is required in Grade 11 or 12.

HEALTH..... ½ Unit
Health is required in grade 10.
CPR certification must be passed as required for graduation.

ELECTIVES 7.5 Units

TOTAL of 24 UNITS

GENERAL INFORMATION

1. 8th GRADE COURSE CREDIT: A standard unit of measurement shall be used in determining credit for each course offered. High school level Math and World Language taken in the 8th grade will be recorded as credit on the student's transcript but will not count toward the high school grade point average (GPA) or class rank
2. ATTENDANCE: Eight semesters of attendance are strongly recommended.
3. AP COURSE ENROLLMENT: It is recommended juniors enroll in no more than two advanced placement courses and seniors enroll in no more than four advanced placement courses.
4. CORRESPONDENCE CREDIT: Two units of work by correspondence may be used to meet the high school diploma requirements. Seniors needing a correspondence course to complete graduation requirements must finish the course in a manner so that we may receive written confirmation institutions no later than May 1.
5. TRANSFER CREDIT: Transfer credit from other schools will be evaluated. The amount of credit the student is allowed to count toward graduation will be determined and a written record will be made of this decision. Courses will be evaluated on the basis of the amount of time allocated to similar classes in our school system.
6. EMBEDDED CREDIT: The Cape Girardeau Career & Technology Center (CTC) offers students an opportunity to earn one unit of high school credit in Technical Math and one unit of credit in Technical Writing through their career education courses. This is an embedded credit which means that the math and writing are taught within the career education course curriculum. Credit is not automatic with a CTC course. To receive credit, students must prove competency in that field either by taking an exam or by providing an acceptable portfolio. The student must request to be enrolled in the Technical Math or Technical Writing program.
7. END OF COURSE EXAMS: Cape Central students are required to take the Algebra B/Algebra I, English II, Biology and Government *End of Course* (EOC) exams. The Cape Girardeau Board of Education, upon recommendation from the Department of Elementary and Secondary Education (DESE), has mandated all EOC exams count 10% of the student's course grade. Students who completed Honors Algebra I in eighth grade are required to take the Algebra II EOC upon completion of the course.

POST-SECONDARY PLANNING REQUIREMENTS

Remember that requirements to attend Post-Secondary Institutions vary and *are more extensive than high school graduation requirements*. Admission criteria to any post-secondary institution can include the following:

- ACT/SAT score
- High school cumulative GPA
- High school class rank
- Specific high school core curriculum requirements
- Potential additional documents (essay, letter of recommendation, etc.).

Different institutions have different levels of admission requirements depending how selective the institution is. *Below are some different examples of the preferred requirements for admission to several post-secondary institutions as an example.*

Always check with each individual institution you are interested in, early on, so that you know what you need. And, some degree programs may have higher admission requirements for that particular program.

Three Rivers Community College, Mineral Area College, Cape College Center – Open Enrollment Institutions	
English	4 units
Mathematics	3 units
Science	3 units
Social Studies	3 units
Fine Arts	1 unit
Foreign Language	None Required
Additional Core Units/Academic Electives	Meet high school graduation requirements
Preferred GPA, ACT/SAT	High School Graduation

Southeast Missouri State University (SEMO)	
English	4 units
Mathematics	3 units (Alg I, Geom, Alg II, and higher)*
Science	3 units
Social Studies	3 units
Fine Arts	1 unit
Foreign Language	None Required
Additional Core Units/Academic Electives	3 units (Foreign Language or additional Eng, Math, Sci, Soc Studies, Fine Art)
Preferred ACT, GPA	18 and 2.75, 19 and 2.50, or 21+ and 2.0

University of Missouri – Columbia (MIZZOU)	
English	4 units
Mathematics	4 units (Alg I, Geom, Alg II, and higher)*
Science	3 units
Social Studies	3 units
Fine Arts	1 unit
Foreign Language	2 units in the same language
Preferred ACT, Class Rank, GPA	24 +, if not they use a sliding scale for class rank and ACT/SAT score

St. Louis University (SLU) – Competitive Institutions follow a holistic review process	
English	4 units
Mathematics	4 units (Alg I, Geom, Alg II, and higher)*
Science	3 units
Social Studies	3 units
Additional Core Units	3 units (additional Eng, Math, Sci, Soc Studies, Fine Art)
Foreign Language	3 units in the same language

*Algebra A and B only count as 1 unit for college admission even though it counts as 2 units for high school graduation.

CAPE CENTRAL HIGH SCHOOL

COLLEGE PREPARATORY CERTIFICATE

The CHS College Preparatory Studies Certificate is available to those students who meet the following requirements.

<i>COURSE</i>	<i>COLLEGE PREPARATORY CERTIFICATE</i>
<i>ENGLISH LANGUAGE ARTS</i>	4 Units: English I, II, and III (Regular/Honors) Plus 1 elective unit
<i>MATHEMATICS</i>	3 Units: Algebra B or Algebra I, Geometry, Algebra II
<i>SCIENCE</i>	3 Units: Conceptual Physics, Biology Plus one elective unit
<i>SOCIAL STUDIES</i>	3 Units: American History, World History, Government / Modern American History
<i>PRACTICAL ARTS</i> FACS, Industrial Technology, Business Education, and Career Center Courses	1/2 Unit
<i>FINE ARTS</i> Art, Music, Drama	1 Unit
<i>PHYSICAL EDUCATION / HEALTH</i>	1 ½ Units: 1 Physical Education, ½ Unit Health
<i>PERSONAL FINANCE</i>	½ Unit: Consumer Education or Finance Management
<i>WORLD LANGUAGES</i>	2 Units
<i>ELECTIVES</i>	Additional electives to total 24
<i>TOTAL</i>	24 Units

GPA Requirements

Have at least a GPA of 3.0 (B average) in the combined areas of Language Arts, Math, Science and Social Studies

National Testing Requirements

Score at or above the national average on the ACT or the SAT

Attendance Requirements

Maintain a 9-12 attendance rate of at least 95 %

NCAA ELIGIBILITY REQUIREMENTS*

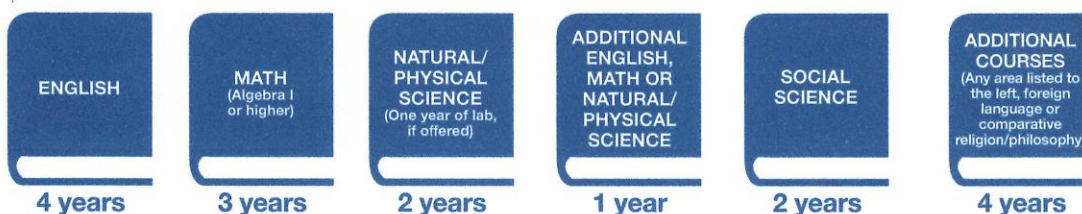


DIVISION I ACADEMIC REQUIREMENTS

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

Core-Course Requirement

Complete 16 core courses in the following areas:



Full Qualifier

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

Academic Redshirt

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

Full Qualifier:

College-bound student-athletes may practice, compete and receive athletics scholarships during their first year of enrollment at an NCAA Division I school.

Academic Redshirt:

College-bound student-athletes may receive athletics scholarships during their first year of enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

Nonqualifier:

College-bound student-athletes cannot practice, receive athletics scholarships or compete during their first year of enrollment at an NCAA Division I school.

Test Scores

When a student registers for the SAT or ACT, he or she can use the NCAA Eligibility Center code of **9999** so his or her scores are sent directly to the NCAA Eligibility Center from the testing agency. Test scores on transcripts will **NOT** be used in his or her academic certification.

A combined SAT score is calculated by adding reading and math subscores. An ACT sum score is calculated by adding English, math, reading and science subscores. A student may take the SAT or ACT an unlimited number of times before he or she enrolls full time in college. If a student takes either test more than once, the best subscore from different tests are used to meet initial-eligibility requirements.

If a student took the SAT before March 2016 and then took the redesigned SAT at a later date, the NCAA Eligibility Center will not combine section scores from the former and redesigned SAT when determining his or her initial eligibility. The NCAA Eligibility Center will only combine section scores from the same version of the test. Because the redesigned SAT varies in design and measures different academic concepts than the former SAT, the Eligibility Center will apply the College Board's concordance tables when performing academic certifications for students with redesigned SAT scores.

*To compare SAT scores, click [here](#) for a comparison table, or click [here](#) to visit the College Board's website.

DIVISION I FULL QUALIFIER SLIDING SCALE			DIVISION I FULL QUALIFIER SLIDING SCALE		
CORE GPA	SAT* READING/MATH	ACT SUM	CORE GPA	SAT* READING/MATH	ACT SUM
3.550	400	37	2.750	720	59
3.525	410	38	2.725	730	60
3.500	420	39	2.700	740	61
3.475	430	40	2.675	750	61
3.450	440	41	2.650	760	62
3.425	450	41	2.625	770	63
3.400	460	42	2.600	780	64
3.375	470	42	2.575	790	65
3.350	480	43	2.550	800	66
3.325	490	44	2.525	810	67
3.300	500	44	2.500	820	68
3.275	510	45	2.475	830	69
3.250	520	46	2.450	840	70
3.225	530	46	2.425	850	70
3.200	540	47	2.400	860	71
3.175	550	47	2.375	870	72
3.150	560	48	2.350	880	73
3.125	570	49	2.325	890	74
3.100	580	49	2.300	900	75
3.075	590	50	2.299	910	76
3.050	600	50	2.275	910	76
3.025	610	51	2.250	920	77
3.000	620	52	2.225	930	78
2.975	630	52	2.200	940	79
2.950	640	53	2.175	950	80
2.925	650	53	2.150	960	81
2.900	660	54	2.125	970	82
2.875	670	55	2.100	980	83
2.850	680	56	2.075	990	84
2.825	690	56	2.050	1000	85
2.800	700	57	2.025	1010	86
2.775	710	58	2.000	1020	86

ACADEMIC REDSHIRT

NCAA is a trademark of the National Collegiate Athletic Association.

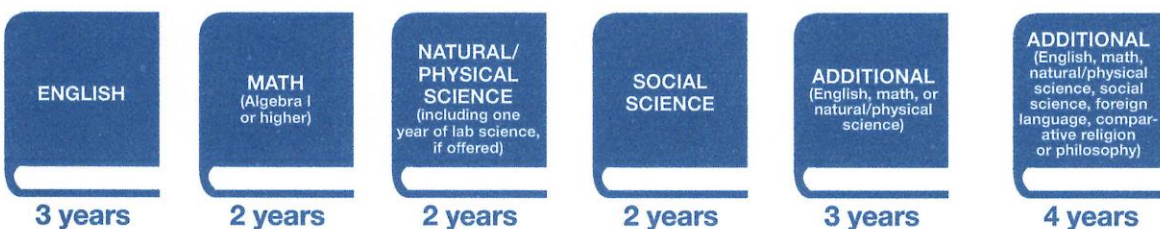


2018 DIVISION II NEW ACADEMIC REQUIREMENTS

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

Core-Course Requirement

Complete 16 core courses in the following areas:



Full Qualifier

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

Partial Qualifier

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

Full Qualifier:

College-bound student-athletes may practice, compete and receive athletics scholarships during their first year of enrollment at an NCAA Division II school.

Partial Qualifier:

College-bound student-athletes may receive athletics scholarships during their first year of enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

Nonqualifier:

College-bound student-athletes may not practice, compete or receive athletics scholarships during their first year of enrollment at an NCAA Division II school.

Test Scores

If a student took the SAT before March 2016 and then took the redesigned SAT at a later date, the NCAA Eligibility Center will not combine section scores from the old and redesigned SAT when determining his or her initial eligibility. The NCAA Eligibility Center will only combine section scores from the same version of the test. Because the redesigned SAT varies in design and measures different academic concepts than the old SAT, a numerical score on the old test may not be equivalent to the same numerical score on the redesigned test.

DIVISION II FULL QUALIFIER SLIDING SCALE		
USE FOR DIVISION II BEGINNING AUGUST 2018		
CORE GPA	SAT READING/MATH	ACT SUM
3.300 & above	400	37
3.275	410	38
3.250	420	39
3.225	430	40
3.200	440	41
3.175	450	41
3.150	460	42
3.125	470	42
3.100	480	43
3.075	490	44
3.050	500	44
3.025	510	45
3.000	520	46
2.975	530	46
2.950	540	47
2.925	550	47
2.900	560	48
2.875	570	49
2.850	580	49
2.825	590	50
2.800	600	50
2.775	610	51
2.750	620	52
2.725	630	52
2.700	640	53
2.675	650	53
2.650	660	54
2.625	670	55
2.600	680	56
2.575	690	56
2.550	700	57
2.525	710	58
2.500	720	59
2.475	730	60
2.450	740	61
2.425	750	61
2.400	760	62
2.375	770	63
2.350	780	64
2.325	790	65
2.300	800	66
2.275	810	67
2.250	820	68
2.225	830	69
2.200	840 & above	70 & above

DIVISION II PARTIAL QUALIFIER SLIDING SCALE		
USE FOR DIVISION II BEGINNING AUGUST 2018		
CORE GPA	SAT READING/MATH	ACT SUM
3.050 & above	400	37
3.025	410	38
3.000	420	39
2.975	430	40
2.950	440	41
2.925	450	41
2.900	460	42
2.875	470	42
2.850	480	43
2.825	490	44
2.800	500	44
2.775	510	45
2.750	520	46
2.725	530	46
2.700	540	47
2.675	550	47
2.650	560	48
2.625	570	49
2.600	580	49
2.575	590	50
2.550	600	50
2.525	610	51
2.500	620	52
2.475	630	52
2.450	640	53
2.425	650	53
2.400	660	54
2.375	670	55
2.350	680	56
2.325	690	56
2.300	700	57
2.275	710	58
2.250	720	59
2.225	730	60
2.200	740	61
2.175	750	61
2.150	760	62
2.125	770	63
2.100	780	64
2.075	790	65
2.050	800	66
2.025	810	67
2.000	820 & above	68 & above

NCAA is a trademark of the National Collegiate Athletic Association.

*As provided by the NCAA Eligibility Center

WEIGHTED GRADES

Honors and Advanced Placement course offerings provide opportunity for students to study and learn at the college level and perhaps meet qualifications for scholarships and financial aid awards.

In these courses topics are covered in greater depth and given additional points on the grade point average scale. Advanced Placement (AP) courses are weighted by adding .67 additional grade points on the total grade points accumulated at the end of each semester for each AP class taken. Honors courses are weighted by adding .33 additional grade points to the total points accumulated at the end of each semester for each Honors class taken.

CLASS RANK

Class Rank is calculated for all students at the end of each semester. All courses are included in calculating grade point averages. Central High School uses a four-point (4.0) scale.

Grade	Points	Grade	Points	Grade	Points
A	4.0	C+	2.33	D-	0.67
A-	3.67	C	2.0	F	0.00
B+	3.33	C-	1.67		
B	3.0	D+	1.33		
B-	2.67	D	1.0		

GRADE LEVEL CLASSIFICATION

Grade level classifications are made at the beginning of each school year.

- **Sophomore** – a second year student who has earned at least 6.0 units of credit
- **Junior** – a third year student who has earned at least 12.0 units of credit
- **Senior** - a fourth year student who has earned at least 17.0 units of credit

PROCEDURE FOR EARLY GRADUATION FOR SENIORS

1. The faculty of Cape Central High School believes in the value of a full-day, eight-semester educational program for all Cape Central students, and the faculty strongly recommends all college-bound students complete a full-day, eight-semester program.
2. The faculty of Cape Central High School believes that as our students become seniors that they should be given the opportunity to earn a reasonable degree of latitude in designing their academic programs in order to prepare them for the freedom they will experience upon begin graduated.
3. Students who elect to be graduated after the required seven semesters of attendance must complete an Application for Early Graduation during the pre-enrollment process during the spring semester, must be endorsed by the student's parent, counselor and principal, and must be submitted by the deadline date.
4. Student who apply for early graduation must complete all graduation requirements by the conclusion of the seventh semester.
5. Students who apply for early graduation forfeit eligibility for Cape Central scholastic recognition (Top Ten Percent, Salutatorian and Valedictorian). Class rank for early graduates will be determined at the end of the last semester enrolled and will not be included in the final class rank for commencement.
6. Students who are graduated early are not required to participate in commencement exercises; however, if students elect to do so, ordering and payment for cap and gown must be completed before the conclusion of the seventh semester. Early graduates who do not participate in commencement will receive their diplomas the week after the commencement ceremony.
7. Students who are graduated early will be required to complete seventh-semester CAP exams.
8. All credit counted towards early graduation must be earned at Cape Central or approved in transfer from another accredited high school.
9. At the end of the seventh semester early graduates will be considered a Cape Central Alum for all activities except Senior Prom.

COLLEGE CREDIT

Cape Girardeau Public Schools recognizes that no one type of program will be appropriate for all students. Student needs and abilities should be assessed individually and schedules or programs tailored as much as possible for each student. Academically talented students will be afforded the opportunity to pursue a more effective multifaceted program that meets cognitive and affective needs of the students. Examples include: granting credit by exam, earning credit through independent study, waiving of course requirements, and enrolling in courses which offer dual credit or early college credit. Students **may not simultaneously be** enrolled in courses at Southeast Missouri State University and the Cape College Center.

Early College Credit (taken on the Southeast Campus)

Students have three opportunities to earn college credit while in high school. One opportunity is through the Early College Credit (ECC) program which allows CHS students to enroll in courses at Southeast Missouri State University or Cape College Center (at a reduced credit hour cost) during the summer immediately following their junior year and/or during the school day when they are juniors and seniors. To participate, students must meet certain requirements and consult their counselor. The program is designed to meet the needs of the exceptional student. The following will serve as guidelines:

1. Approval must be obtained at least one semester in advance and subject to approval by counselor and principal.
2. It is required that students have a B average (3.0), or higher, in their total high school program.
3. Approval will be based on the student meeting early college admissions criteria as outlined in the SEMO University catalog.
4. Enrollment in university classes must not interfere with the high school education of the student. (Class schedule, progress toward graduation, etc.)
5. Early college credit will be limited to no more than two periods per semester (for one Southeast course) during the junior year and no more than three periods per semester (for two Southeast courses) the senior year.
6. Students will earn one unit of high school credit per semester for a three-hour college class. The grade earned at the university will be accepted at CHS and will be included in high school GPA class rank. Courses taken beyond the AP level must be approved by the department chair and the principal and will carry a .67 weight.
7. Course selection is limited to university classes not available on the CHS campus
8. A student taking a college class during the summer or outside the 7 hour Central High School day will have the option of having the class included as a part of the high school transcript. If the student chooses to have the course transcribed at CHS, the decision must be made at the time of enrollment. The course and grade will be noted on the transcript but will not be included in figuring GPA & credit accumulations.

Dual Credit

Dual credit is the second option allowing high school sophomore, juniors, and seniors to earn college credit while still in high school. Certain classes taught on the CHS campus have been approved for college credit through Southeast Missouri State University. Students must apply for admission to the university, meet university requirements (cumulative GPA) and pay course fees to Southeast. Enrollment procedures will be handled by individual classes currently approved.

CHS Department and Class

Southeast Class

Business	Credit Hours	Semester	Course Listing
Advanced Computer Applications 1 and 2	3	Year	AD101: Intro to Microcomputer Applications

English	Credit Hours	Semester	Course Listing
Honors Composition I	3	Semester	EN100: English Composition
Honors Composition II	3	Semester	EN140: English Composition
Oral Communication	3	Semester	SC105: Fundamentals of Oral Communication
Interpersonal Communication	3	Semester	SC155: Fundamentals of Interpersonal Comm

Math	Credit Hours	Semester	Course Listing
AP Calculus	5	Year	MA140: Analytic Geometry/Calculus I
Honors Pre-Calculus A	3	Fall	MA116: College Algebra
Honors Pre-Calculus B	3	Spring	MA 177: Trigonometry
Honors Pre-Calculus	5	Year	MA 137: Pre-Calculus

Science	Credit Hours	Semester	Course Listing
AP Biology	6	Year	BS108: Biology for Living BS107: Investigations in Biology
AP Chemistry	5	Year	CH001/081/181: Basic Principles of Chemistry/Recitation/Lab
AP Environmental Science	3	Year	BS105: Environmental Biology

Social Studies	Credit Hours	Semester	Course Listing
AP United States History	3	Fall	US105: American History I
AP United States History	3	Spring	US 107: American History II

CHS Department and Class

MO S&T (PLTW)/Southeast(computer)

Project Lead the Way	Credit Hours	Semester	Course Listing
Intro to Engineering Design Honors Principals of Engineering	3	Year	MN120: Fundamentals of Engineering Design MN221: Solid Modeling and Rapid Prototyping
Computer Networking (Year 1)		Fall	TN255: IT Essentials
Computer Networking (Year 1)		Spring	TN275: Intro to Networking
Computer Networking (year 2)		Fall	TN375: Routing & Switching Essentials

ADVANCED PLACEMENT COURSES

CENTRAL HIGH SCHOOL OFFERS 16 ADVANCED PLACEMENT (AP) COURSES:

ENGLISH LANGUAGE ARTS:
AP English Literature and Composition

FINE ARTS:
AP Studio Art

MATH:
AP Calculus AB
AP Statistics

MUSIC:
AP Music Theory

SCIENCE:
AP Biology
AP Chemistry
AP Environmental Science
AP Physics 1

SOCIAL STUDIES:
AP Government and Politics: Comparative
AP US Government and Politics: United States
AP United States History
AP Human Geography
AP World History

WORLD LANGUAGES:
AP French Language and Culture
AP Spanish Language and Culture

MINERAL AREAC COLLEGE CAREER AND TECHNICAL DUAL CREDIT PROGRAM

The Mineral Area College (MAC) Career and Technical Dual Credit Program is a dual credit enrollment program through MAC that allows qualifying juniors and seniors a great opportunity to get a head start on their college education while still in high school.

Unlike other dual enrollment, the MAC Career and Technical Dual Credit program is absolutely free. Students may earn up to 36 hours of college credit at no charge to them or their family. During the first semester at CTC, students will enroll in qualifying courses by completing an application to MAC. In order for students to earn the college credit, students must complete their career program, maintain a minimum grade of 80% and display exemplary attendance and discipline while enrolled at CTC.

The MAC Dual Credit Program includes an agreement between CTC and Mineral Area College. The agreements help students progress through the educational system without experiencing delay, duplication of courses, or loss of credit in addition to saving tuition and fees for the articulated hours.

CTC training programs and the maximum community college credit hours that may be earned are as follows:

Automotive Collision Technology I and II	36 credit hours
Automotive Technology I and II	36 credit hours
Computer Coding and Programming	TBD
Childcare.....	19 credit hours
Computer and Networking Technology I and II	13 credit hours
Construction Technology I and II	36 credit hours
Digital Media I and II	36 credit hours
Electrical Trades I and II.....	36 credit hours
Graphic Design I and II	36 credit hours
HVAC I and II	36 credit hours
Landscape / Horticulture.....	8 credit hours
Machine Tool Technology I and II	27 credit hours
Marketing I and II	13 credit hours
Project Lead the Way (Pre Engineering)	15 credit hours
Welding Technology I and II	36 credit hours

The majority of general education college courses that are needed to complete an Associate of Applied Science degree in the programs listed above can be taken at the CTC through the Cape College Center. These classes are offered through a collaborative arrangement with Cape Girardeau CTC, Mineral Area College, Three Rivers Community College and Southeast Missouri State University. For more information about MAC Career and Technical Dual Credit program and the general education college courses, contact the CTC counselor or your high school guidance counselor. Additional articulation agreements are available with other institutions across Missouri.

THREE RIVER COMMUNITY COLLEGE ARTICULATED CREDIT AT CTC

Students enrolled in select programs at the Cape Girardeau Career and Technology Center (CTC) may earn articulated credit through Three Rivers Community College (TRC). The CTC has an articulation agreement with TRC in Poplar Bluff, Missouri. The agreement allows Central High students who meet needed prerequisites to earn community college credit while earning credits toward high school graduation. Students may then use the credit earned toward an Associate of Applied Science degree in Diversified Technology through TRC.

CTC training programs and the maximum community college credit hours that may be earned are as follows:

Automotive Collision Technology I and II	36 semester hours
Automotive Technology I and II	36 semester hours
Digital Media I and II	36 semester hours
Construction Technology I and II	36 semester hours
Graphic Design I and II	36 semester hours
HVAC I and II	36 semester hours
Machine Tool Technology I and II	25 semester hours
Welding Technology I and II	36 semester hours

The general education college courses that are needed to complete an Associate of Applied Science degree in the programs listed above can be taken at the CTC through the Cape College Center. These classes are offered through a collaborative arrangement with Cape Girardeau CTC, Mineral Area College, Three Rivers Community College and Southeast Missouri State University. For more information about TRC Articulated Credit and the general education college courses, contact the CTC counselor or your high school guidance counselor. Additional articulation agreements are available with other institutions across Missouri.

A+ SCHOLARSHIP PROGRAM

In May of 1997, Cape Central High School completed the requirements of the A+ Schools Program and received the designation as being an A+ School by the Board of Education of the State of Missouri. Qualified students graduating from Cape Central High School will be eligible to receive the following:

- ❖ **Scholarship funds to attend a participating public community college or vocational/technical school, or certain private two-year vocational/technical schools.**
- ❖ **Some Missouri four-year institutions offer scholarships for students who qualify for A+ funds.**

To be eligible for the scholarship from the A+ School Program, a student must be certified as an A+ student. To qualify, the student must meet the following criteria:

- Complete a Student Participation Agreement with the high school prior to graduation. This form is included within this handbook on page 88.
- Attend an A+ designated school for at least three consecutive years.
- Graduate from high school with a cumulative, non-weighted grade point average of 2.5 or higher.
- Have at least a 95% attendance record overall for grades nine through twelve.
- Perform 50 hours of unpaid tutoring, of which up to 25% may include job shadowing.
- Maintain a record of good citizenship and avoid the unlawful use of drugs and/alcohol.
- Make a good faith effort to first secure all available federal post-secondary student financial assistance funds that do not require repayment.
- Students must achieve a proficient or advanced score on the Algebra I End of Course Exam (or other tests as determined by the Missouri Department of Higher Education).
- Must be a US citizen or a permanent resident.

Following high school graduation students will be eligible to receive the A+ Scholarship if they are full-time students, and maintain a 2.5 GPA, or otherwise maintain satisfactory academic progress toward their program of study.

The A+ Scholarship will be made available to reimburse the unpaid balance of the cost of tuition and general fees after available federal post-secondary student financial assistance funds have been applied to those costs.

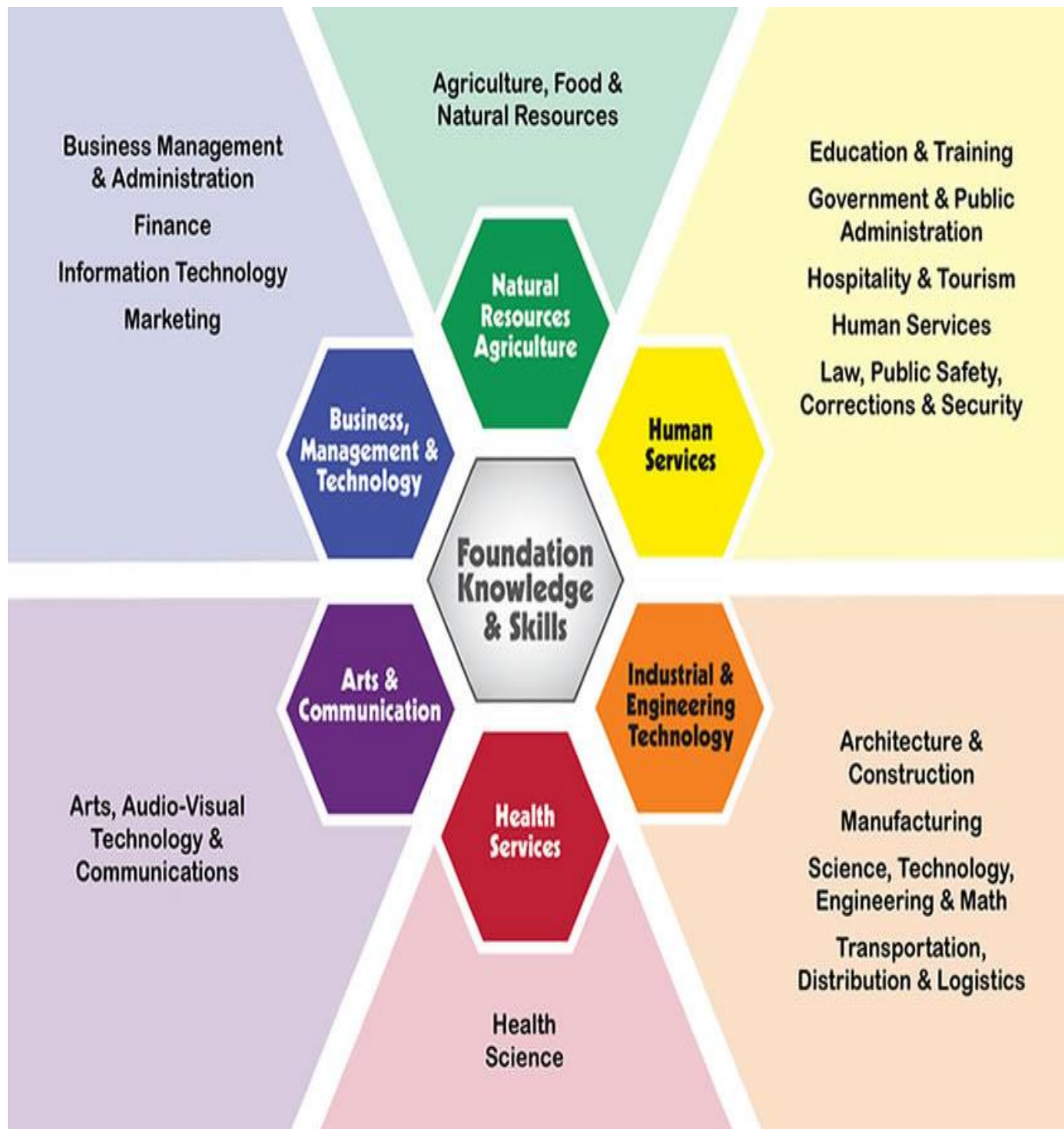
Students must complete their coursework within 48 months of graduation.

Tuition reimbursement is contingent upon the availability of state funds. Funding is not the responsibility of the Cape Girardeau School District.

For more information about this program please contact the A+ Coordinator at Cape Central High School or visit the Missouri Department of Higher Education's website:

www.dhe.mo.gov/ppc/grants/aplusscholarship.php

CAREER CLUSTERS



*Missouri Connections: www.missouriconnections.org

ENGLISH LANGUAGE ARTS

ENGLISH SEQUENCE:

9 English I / Honors English I

English Elective Options:

Oral Communication

Mythology

Journalism I

Journalism II

10 English II / Honors English II

English Elective Options:

Debate

Oral Communication

Interpersonal Communication

Mythology

Debate II

Journalism I

Journalism II

Shakespeare

Advanced Language Skills

11 English III / Honors English III

English Elective Options:

Debate

Oral Communication

Interpersonal Communication

Literature of the Holocaust

Career Embedded English IV (CTC)

Advanced Language Skills

Shakespeare

Creative Writing

Literature of the Bible

Journalism I

Journalism II

Debate II

12 Senior Course Options:

English IV

Debate

Honors Composition I

Honors Composition II

Literature of the Holocaust

Oral Communication

Interpersonal Communication

AP Literature and Composition

Creative Writing

Literature of the Bible

Advanced Language Skills

Shakespeare

Journalism I

Journalism II

Career Embedded English IV (CTC)

Debate II

All levels of English classes provide an opportunity for students to reinforce and expand skills in grammar, sentence structure and word usage through vocabulary study and composition. Written assignments include, but are not limited to, a variety of essay forms, note-taking, and research projects requiring research skills. Students will be introduced to and use MLA (Modern Language Association) format. Reading selections will include short story, novel, drama, and poetry as well as non-fiction pieces. Opportunities for students to improve and enhance speaking and listening skills will be made available through various assignments.

Placement in core English classes will be determined upon completion of a writing test taken during the spring semester of the 8th grade year or upon enrollment in the Cape public school district. This test may include but is not limited to multiple choice responses and/or written responses or compositions.

Students enrolled in an Honors class will be required to complete summer reading selections and related assignments, which will be collected on the first day of student attendance. In addition, within the first days of student attendance, students will be tested over summer reading selections; these tests may include but are not limited to, multiple choice and essay questions. Honor students and parents/families will be required to sign a Contract of Intent to Complete Summer Reading.

ENGLISH I

9th Grade

Credit – 1

Year

This course provides an opportunity for each student to reinforce and expand skills in grammar, sentence structure and word usage through composition; to apply literary terms in the analysis of short story, novel, poetry, non-fiction, drama and other written works; extend speaking and listening skills; and to engage in literacy support as needed. Students will be introduced to correct MLA (Modern Language Association) format through various forms of composition including essay, reports, research and other compositions. In each semester, in addition to in-class selections, two out of class reading selections and related assignments will be required.

HONORS ENGLISH I

9th Grade

Credit – 1

Year

This class provides the opportunity for each student to extend skills in writing, academic research skills, word usage, creativity, styles, and grammar and punctuation through composition. Correct MLA (Modern Language Association) format is used in composition and research. Vocabulary expansion will be heavily stressed. Curriculum skills are covered in greater depth and at an accelerated pace. Students enrolled in Honors English I courses are required to complete summer reading selections and related assignments by the first day of student attendance. No substitutions of summer reading selections will be allowed. In each semester, in addition to in-class selections, two out of class reading selections and related assignments will be required.

ENGLISH II

10th Grade

Credit – 1

Year

This class provides an opportunity for students to reinforce and expand skills in oral and written English through grammar, composition, vocabulary; research writing; formal oral presentation; comparative reading skills; and literacy support as needed. Studies of poetry, short story, drama, novel, and non-fiction genres increase students' appreciation of literature forms and purpose. Modern Language Association format (MLA) is used in a variety of written compositions designed to enhance student understanding of purpose and audience. In addition to in-class reading, in each semester students will complete out of class reading and related assignments, including book reports.

HONORS ENGLISH II

10th Grade

Credit – 1

Year

This class provides the opportunity for students to engage in an enhanced, in-depth study of a variety of composition forms including academic research skills, various essay forms, word use and stylistic writing techniques, grammar and punctuation, and the study of at least two novels. Students apply comprehension and analysis skills to increase understanding and appreciation of various genres of literature. Curricular skills are covered in greater depth at an accelerated pace. Students enrolled in Honors English II are required to complete summer reading and related assignments by the first day of student attendance. No substitutions of summer reading selections will be allowed. In each semester, in addition to in-class reading selections, two out of class reading selections and related assignments will be required.

ENGLISH III

11th Grade

Credit – 1

Year

This class provides students the opportunity to improve skills in written and oral English as well as increased understanding and use of application and analysis of literary skills. A variety of literature genres will be studied including short story, novel, drama, poetry, and non-fiction to extend comprehension and appreciation of literature, with an emphasis on American literature. Written assignments include, but are not limited to, character analysis, various essay forms, journalistic writing, persuasive and argumentative writing. In addition, all English III students are required to complete a research project designed to enhance the students' understanding and application of research and analysis skills, grammar, and stylistic devices, and purpose and audience. Each semester, in addition to in-class selections, two out of class reading selections and related assignments are required.

HONORS ENGLISH III

11th Grade

Credit – 1

Year

This class provides students the opportunity to extend and enhance advanced vocabulary study, independent reading assignments, and the study of several complete major works of literature, as well as a paper of literary criticism. Content is covered at an accelerated pace and in greater depth and breadth. Students are expected to complete work independently. In addition, students enrolled in Honors English III are required to complete summer reading selections and related assignments by the first day of student attendance. No substitutions of summer reading selections will be allowed. Books are chosen in regard to course curriculum goals and objectives. In each semester, in addition to in-class selections, two out of class reading selections and related assignments are required.

ENGLISH IV

12th Grade

Credit – 1

Year

This senior-level course is designed for the student needing work in fundamental English and communication skills. The course provides students the opportunity to read and explore a number of selections in several genres including Young Adult Fiction, contemporary fiction, and works of non-fiction. Shorter works as well will be read to increase student skills in analyzing major literary elements, developing vocabulary, and strengthening comprehension skills. Written assignments and projects are required elements of this course.

ENGLISH ELECTIVES

The state graduation requirement in communications arts is four units which would require all students take four years of English. To satisfy this requirement, students must take two one-semester English electives or one Year English elective.

ORAL COMMUNICATION (Dual Credit with SEMO University)

9th – 12th Grade

Credit – 1/2

Semester

Oral Communication is planned to help students overcome their fear of speaking and performing before groups so that they will gain confidence in themselves as speakers. This course aims to give students some fundamental skills in public speaking, discussion and interpersonal communication. Preliminary work is done in use of body research, composition and organization of information. To enhance their public speaking skills students will present speeches to persuade, testimonials, presentation and acceptance, informative and introductions.

INTERPERSONAL COMMUNICATION (Dual Credit with SEMO University)

10th – 12th Grade

Credit – 1/2

Semester

This course is highly recommended for college-bound students, and specifically, students planning a career which will require a variety of verbal and non-verbal communication skills. The course will explore the art of communication through the study of, and participation in, the following: foundations of interpersonal communication, perception awareness, verbal and non-verbal skills, diversity training, and conflict management skills. One primary goal of the course is to provide the student with an acceptable way to express ideas and feelings. This course requires the use of creative and critical thinking and writing skills.

DEBATE

10th – 12th Grade

Credit – 1/2

Semester

This course is designed to study the fundamentals of debating: determining basic issues, types of reasoning, types of cases, mechanics of participation, and actual debate practice. In addition, students will do research and prepare debate briefs, Cross-Examination, Public Forum, and Lincoln-Douglas Debate. Students in this course are encouraged to participate on the debate team.

Prerequisite: English I with a grade of a C+ or higher or teacher recommendation.

DEBATE II

10th – 12th Grade

Credit – 1/2

Semester

This course is designed for the preparation for performances. Study areas include: prose/poetry interpretation, humorous/dramatic interpretation, radio speaking, and duet acting. Students will research and have exposure to many different types of literature as well as perform assignments. They will also research and write their own scripts for: Radio Speaking, keeping with current events, and Original Oratory, arguing a current debatable issue. Student will receive individualized instruction during rehearsals and performances. Students will prepare pieces for Speech and Debate tournaments, perform their work in class for peers, and perform for other audiences. Students will be required to participate in running the tournament at CHS. Students will be encouraged to participate in Speech and Debate tournaments.

Prerequisite: Debate

CREATIVE WRITING

11th – 12th Grade

Credit – 1/2

Semester

This course provides opportunities to learn and to improve techniques of creative writing. Emphasis is on syntax, style, and effective, interesting rhetoric. A variety of writing genre is explored, including classic essay, poetry, short story and journaling. Conferences with the teacher and interaction with other class members are used to enhance and expand the writer's work.

Prerequisite: Grade of a C- or higher in a core English course or teacher recommendation

HONORS COMPOSITION I (Dual Credit with SEMO University)

12th Grade

Credit – 1/2

Semester – 1 and/or 2

Honors Composition teaches the writing skills students need to explore and explain their own experiences, to write for specific purposes and audiences, and to complete college writing assignments successfully. Utilizing all stages of the writing process, students compose a variety of essays, including personal narrative, description, expository, and persuasion. In addition, students learn to use research to support their ideas. Mini-lessons cover topics of grammar, mechanics, usage, and rhetoric. This course is recommended for college-bound students interested in improving their writing skills. In addition, students who qualify may take the course for college credit through Southeast Missouri State University (EN 100 English Composition).

Prerequisite: English III or Honors English III with grade of B or higher.

HONORS COMPOSITION II (Dual Credit with SEMO University)

12th Grade

Credit – ½

Semester

The focus of this class is on effective written expression in the context of a liberal arts education with emphasis on critical thinking and the research paper. The first part of the course will involve focus and development in writing. Emphasis in this portion of the course is on rhetorical analysis, both of the writing of others and that of the students. The second part of the course will focus on writing as communication of researched judgments. The final part of the course will focus on writing as persuasion and argumentation. Students will write a minimum of five essays and a research paper, and they will participate in a variety of exercises and informal writings and in-class workshops. Students who qualify may take the course for college credit through Southeast Missouri State University (EN 140 Rhetoric and Critical Thinking).

Prerequisite: Honors Composition I and at least a B average in English III

AP LITERATURE & COMPOSITION

12th Grade

Credit – 1

Year

Advanced Placement English Literature and Composition is designed to give advanced seniors the opportunity to study college-level literature and language. Through the examination of sophisticated literature and through application of literary analysis skills and close reading skills, students will develop as critical readers and writers. Students will learn how to use sophisticated vocabulary, sentence structure and syntax to communicate effectively about literary and nonfiction works. Students will analyze poetry, fiction, drama, novels, and nonfiction from primarily the English Renaissance through modern times to determine the literary and rhetorical devices writers employ to convey meaning. Students will write extensively to demonstrate their comprehension of literature's purpose and the strategies used by writers to achieve that purpose. The major course objectives are to enable every student to read and write for future college courses and to ensure success on the AP English Literature and/or AP English Language examinations in the Spring. Students in this course will take either the national AP exam or a semester CAP exam.

Prerequisite: Honors English III with a grade of B or higher or teacher recommendation.

MYTHOLOGY

9th - 10th Grade

Credit – 1/2

Semester

Designed as an elective for grades 9 and 10, this high-interest course will explore mythology from cultures around the world: Norse, Greek, Roman, Asian, and modern day. Students will be introduced to archetypal characters, plots, settings, and themes from across a variety of cultures. Students will learn and apply basic research skills.

ADVANCED LANGUAGE SKILLS

10TH – 12TH Grade

Credit – 1/2

Semester

This course provides preparation for the English section of the ACT exam. The course will provide students with vocabulary review, test taking tips and strategies, review sentence structure, and grammar.

LITERATURE OF THE HOLOCAUST

11th – 12th Grade

Credit – 1/2

Semester

Through a study of literature, film, art, media, propaganda, drama, and poetry of the Holocaust period, the study of the Holocaust can be placed within a historical context that will allow students to see the relationship of political, social, and economic factors that impacted the times and events and how those events relate to the global society of today. Students will read, reflect and write about the Holocaust and the current events genocide.

Prerequisite: English II, grade of C- or higher in a core English course, or by teacher recommendation.

LITERATURE OF THE BIBLE

11th – 12th Grade

Credit – 1/2

Semester

Designed as an elective for students in grades 11 and 12, this course directs students in the literary analysis of the Bible as a compelling literary masterpiece, recognizing its influence and presence in literature and other art media (music, art, dance, film, commercial art). Through the study of the literacy forms and genres throughout the Bible (parables, narratives, psalms, lyric poetry, letters, historic chronologies, law, politics, military tactics), students will identify and understand the major elements of literature (character, plot structures, importance of place) and literary elements.

SHAKESPEARE

10th – 12th Grade

Credit – 1/2

Semester

Designed for the student wanting to learn more about Shakespeare and his works, this course will immerse students in his plays and sonnets within their historical context and as interpreted by contemporary directors and audiences. Students will learn about the history and society of Elizabethan and Jacobian England, and will learn how to read well Shakespeare's language in a variety of his poems, songs, excerpts from plays, and whole plays. The class will read by Shakespeare a comedy (i.e. Much Ado About Nothing, Twelfth Night, As you Like It), a tragedy (i.e. Othello, Hamlet, Macbeth), a number of poems, and as time permits, a history (i.e. Richard III or Henry V). Quizzes, tests, writing, and presentation projects will be used to assess students' understanding of Shakespeare's works.

Prerequisite: Grade of a C or higher in a core English course.

JOURNALISM I

9th – 12th Grade

Credit – 1/2

Semester

The journalism survey course is designed for students pursuing communication, journalism as a career. This course is preparatory for the college-bound journalism student. The history, ethics, and legalities of journalism will introduce the course. Students will become familiar with journalism terms, AP style, and will learn to write news stories, features, editorials, and sports stories. Students will also be introduced to basic photography and will have an opportunity to take photos for the school paper. Students view films recommended by the Journalism Education Association. Students who take Journalism I in the fall semester may take Journalism II in the spring semester.

Prerequisite: Honors English I, II, or III or by teacher recommendation.

JOURNALISM II

9th – 12th Grade

Credit – 1/2

Semester

This advanced journalism course is designed for students pursuing communication or journalism as a career. This course is preparatory for the college-bound journalism student. In addition to further studying the history, ethics and legalities of journalism, students contribute news stories, features, editorials, and sports stories to The Tiger or to the local community paper. Students will also use their photography skills to submit pictures to The Tiger, the community newspaper, the banner for the CHS website, etc. Students will learn layout (using InDesign program) and will be introduced to convergence journalism opportunities. This course may be repeated.

Prerequisite: Journalism I

CAREER EMBEDDED ENGLISH LANGUAGE ARTS (CTC)

11th - 12th grade

Credit – 1/2 per year

Year

Embedded English Language Arts is a course offered for students enrolled in a CTC career education program. This course requires students to complete industry specific writing such as professional journal summaries, research proposals, recommendation reports, and process essays. Oral presentations and life skills writing such as cover letters, resumes, and applications are also required. Students must be enrolled in a CTC career education program and must request enrollment in Embedded Language Arts. As this is a competency based course, students must produce an acceptable portfolio to receive credit.

Prerequisite: Enrollment in a CTC career education program

MATHEMATICS

The mathematics curriculum is divided into the following three categories in order to best meet the needs of Central High School's diverse student population. The Math Concepts category is designed for the student who does not anticipate attending a four-year college or entering a technical field requiring an extensive math background.

The College-Bound without Math Emphasis category is designed for the college-bound student who plans to major in a field not requiring a sophisticated math background such as the humanities.

The third category, College-Bound with Math Emphasis, is designed for the college-bound student who is either mathematically talented or who plans to major in a field such as engineering, science or mathematics.

The prerequisites have been carefully developed and should be followed. If a student's grade is not in compliance with the prerequisite for the class in which she/he wants to enroll, the student and her/his parents will be required to sign a waiver wherein she/he will agree to stay in the class at least until the end of the semester.

CATEGORIES AND COURSES

Math Concepts	College-Bound Without Math Emphasis	College-Bound With Math Emphasis
Algebra A	Algebra A	Honors Algebra I
Algebra B	Algebra B $\supset$ = Algebra I	Honors Geometry
Geometry	Algebra I	Honors Algebra II
	Geometry	Honors Pre-Calculus A
	Algebra II	Honors Pre-Calculus B
	AP Statistics	AP Statistics
	Algebra III	Honors Pre-Calculus
		AP Calculus AB

Enrollment in Math courses requires recommendation of previous Math teacher.

ALGEBRA – A **9th – 12th Grade** **Credit – 1** **Year**

Algebra A and Algebra B are separate yearlong classes that will together cover Algebra I. This course will introduce students to concepts in the first half of a first year Algebra course. Students will learn to solve linear equations and linear inequalities, graph linear equations in two variables and linear inequalities in two variables, and solve systems of linear equations and linear inequalities.

ALGEBRA – B

9th – 12th Grade

Credit – 1

Year

Algebra A and Algebra B are separate yearlong classes that will together cover Algebra I. Algebra B includes such topics as solving equations, factoring, polynomial expressions, rational expressions, roots and radicals, and quadratic equations. Algebra B will cover the concepts of the second half of a first year algebra course.

Prerequisite: Algebra A

ALGEBRA I (Honors credit may be earned)

9th – 10th Grade

Credit – 1

Year

Algebra I begins the year working with real numbers and applying algebraic properties to real numbers. Students will solve equations and work with simplifying and factoring polynomials. Extensive work is done with numerical and algebraic fractions. Students will then work with functions, systems of linear equations and inequalities and quadratic functions. Extensive problem solving reinforces each of the concepts learned throughout the year. This class prepares students for their work in all other math courses offered at CHS. Honors credit can be earned each semester by having a Term 3 or Term 6 grade of 89.5% or higher going into the final exam AND scoring on 89.5% or higher on the exam.

Prerequisite: Pre-Algebra with a grade of C- or higher.

GEOMETRY

9th – 12th Grade

Credit – 1

Year

This course is a concrete approach to Euclidean geometry designed for students of average mathematical ability. It will satisfy the college requirement of a class above Algebra I. Topics included are basic geometric concepts of point, line, plane, angle, as well as the concepts of congruence and similarity of polygons and their properties, area and volume of geometric figures, and coordinate geometry. In addition to strengthening algebraic skills, this course will help develop and refine logical reasoning skills. Students will be enrolled in one of two levels of this course based on teacher recommendation.

Prerequisite: Algebra I or Algebra B with a grade of C- or higher.

HONORS GEOMETRY

9th – 12th Grade

Credit – 1

Year

Honors Geometry is a rigorous course in formal Euclidean geometry. Topics included are an in-depth study of all those taught in Geometry as well as direct and indirect proofs. Honors Geometry will help the student: (1) develop inductive/deductive and convergent/divergent reasoning skills in both mathematical and nonmathematical situations; (2) further strengthen algebra skills; (3) gain an improved understanding of the methods of coordinate geometry; and (4) appreciate the need for clarity and precision of language.

Prerequisite: Honors Algebra I with a grade of C- or higher.

ALGEBRA II

10th – 12th Grade

Credit – 1

Year

Algebra II builds upon and develops more fully topics included in Algebra I and Geometry. It covers real number and complex number concepts and skills involving operations with positive and negative numbers and zero. Additional topics are exponents, radicals, graphical and algebraic solutions to equations and inequalities, and properties of polynomial expressions, and basic probability concepts. Other topics covered are applications of matrices and determinants and logarithmic and exponential functions with a consistent focus on ACT preparation.

Prerequisite: Geometry with a grade of C- or higher.

HONORS ALGEBRA II

10th – 12th Grade

Credit – 1

Year

Honors Algebra II covers real number concepts and skills, the solution of equations and inequalities in one, two, and three variables, verbal problems, and properties of polynomial expressions. Simplifying radicals and solving radical equations will be emphasized along with an introduction to the complex number set. Other topics covered are applications of matrices and determinants, logarithmic and exponential functions, and conic sections

Prerequisite: Honors Geometry with a grade of C- or higher.

ALGEBRA III

11th – 12th Grade

Credit – 1

Year

Algebra III is designed to provide the student with a strong foundation for college-level mathematics. Topics include the conics, polynomial expressions, logarithms, exponential equations and their application to real world problems, trigonometry, matrices, and sequences and series.

Prerequisite: Algebra II with a grade of C- or higher.

HONORS PRE-CALCULUS A (Dual Credit SEMO University)

11th – 12th Grade

Credit – 1/2

Fall Semester

This course is an option for students who do not need to proceed to AP Calculus. The course will involve students in solving problems typically found in College Algebra course and on mathematics placement exams at the college level. In addition, time will be spent helping students learn how to solve problems typically found on the ACT exam. Topics include functions and graphs, polynomial and rational functions, exponential and logarithmic functions, and sequences. In addition, students who qualify may take the course for college credit through Southeast Missouri State University (MA134 College Algebra).

Prerequisite: Honors Algebra II with teacher recommendation.

HONORS PRE-CALCULUS B (Dual Credit SEMO University)**11th – 12th Grade****Credit – 1/2****Spring Semester**

This course covers the following topics: circular functions, right and oblique triangles, identities and equations, and complex numbers. In addition, students who qualify make take the course for college credit through Southeast Missouri State University (MS133 Plane Trigonometry).

Prerequisite: Honors Algebra II with teacher recommendation.

HONORS PRE-CALCULUS (Dual Credit SEMO University)**11th – 12th Grade****Credit – 1****Year**

This course is designed to prepare students for AP Calculus and is a prerequisite to take AP Calculus for dual credit through SEMO. This course is in in-depth study of polynomial, rational, exponential, logarithmic and trigonometric functions and equations with applications. In addition, students who qualify may take the course for college credit through Southeast Missouri State University (MA137 Precalculus)

Prerequisite: Honors Algebra II with teacher recommendation.

AP CALCULUS AB (Dual Credit with SEMO University)**12th Grade****Credit – 1****Year**

Analytical Geometry and Calculus uses and reinforces the content of previous courses in mathematics. Differentiation, integration and numerous applications are studied. An emphasis will be placed on technology using a TI84 series graphing calculator.

Prerequisite: Honors Pre-Calculus/Trigonometry with a grade of C- or higher.

AP STATISTICS**11th – 12th Grade****Credit – 1****Year**

This course is designed to provide a non-calculus based course in statistics and probability. It is aimed at the student who plans to enter such fields as economics, business, education, psychology, sociology, biology and medicine, which now require statistics in their course material. An emphasis will be placed on technology using a TI84 series graphing calculator.

Prerequisite: Algebra II or Honors Algebra II with a grade of C- or higher.

TECHNICAL MATH (CTC Embedded Credit)**11th – 12th Grade****Credit – 1****Year**

Technical Mathematics requires students to use practical mathematics to solve technical, real-life problems. This is an embedded course offered through the Cape Girardeau CTC. Students must be enrolled in a CTC career education program. Credit is not automatic with enrollment in a CTC program; Students must request to be enrolled. This is a competency based course so students must pass their CTC course and the technical math exam in order to receive credit.

Corequisite: Enrollment in a CTC career education program.

SCIENCE

SCIENCE SEQUENCE:

9	Conceptual Physics / Honors Conceptual Physics
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10	Chemistry / Honors Chemistry Earth Science Honors Earth Science Ecology 1 and 2 Honors Principle of Engineering
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11	Biology / AP Biology <i>Electives:</i> Chemistry / Honors Chemistry AP Chemistry AP Environmental Science AP Physics 1 Ecology 1 and 2 Earth Science Honors Earth Science Plant Biology 1 (2019-20) Plant Biology 2 (2019-20)
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12	<i>Senior Course Options:</i> Chemistry / Honors Chemistry AP Chemistry AP Physics 1 AP Environmental Science Honors Anatomy and Physiology Ecology 1 and 2 Honors Earth Science Earth Science Plant Biology 1 (2019-20) Plant Biology 2 (2019-20)
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CONCEPTUAL PHYSICS

9th Grade

Credit – 1

Year

A fundamental physics course that focuses on concepts couched in real-life applications. Vivid demonstrations, presentations, simple hands-on activities and laboratory work are used to make meaningful connections to real life. This course is an approach to physics that maximizes the use of students' personal experience in the real world without laborious algebraic problems.

HONORS CONCEPTUAL PHYSICS

9th Grade

Credit – 1

Year

A fundamental physics course that focuses on concepts couched in real-life applications. Vivid demonstrations, presentations, hands-on activities and laboratory work are used to make meaningful connections to real life. This course is an approach to physics that maximizes the use of students' personal experience in the real world. Students with strong academic skills and strong algebraic skill are encouraged to take this level due to the greater expectations on homework, lab write ups and exams.

Prerequisite: C+ or higher in Honors Algebra I and teacher recommendation

CHEMISTRY

10th - 12th Grade

Credit – 1

Year

Chemistry will focus on the application of chemistry in everyday life. The addition of the chemistry course will provide a chemistry option for students who want chemistry but may not have the math requirement necessary to take Honors Chemistry.

Prerequisite: Conceptual Physics with a grade C- or higher or teacher recommendation

HONORS CHEMISTRY

10th - 12th Grade

Credit – 1

Year

This course is a systematic study of the properties and change that takes place in matter. Class discussions are very closely related to laboratory investigations. Topics covered include naming and writing formulas for compounds; writing, balancing and interpreting chemical equations; atomic structure; the state of matter; acid-base theory; and chemical equilibrium systems.

Prerequisite: Conceptual Physics with a grade C- or higher or teacher recommendation.

AP CHEMISTRY (Dual Credit with SEMO University)

11th -12th Grade

Credit – 1

Year

This course covers some topics introduced in chemistry in greater depth. Included topics will be: stoichiometry, acid-base systems, equilibrium systems, qualitative analysis, redox systems, bonding, organic chemistry, electrochemistry, thermodynamics, polymer chemistry and the chemistry of transition metals. Laboratory work and lab reports are fairly extensive. Lab preparation technique and independent labs are stressed.

Prerequisite: Honors Chemistry with a grade of C+ or teacher recommendation.

BIOLOGY

11th Grade

Credit – 1

Year

This course consists of the study of living organisms with an emphasis upon the similarities and diversities of living organisms. The course begins with cell structure and processes and builds into complex organisms and ecological interactions.

AP BIOLOGY (Dual Credit with SEMO University)

11th Grade

Credit – 1

Year

This course is equivalent to a college freshman level biology course. Emphasis will be in the fields of biochemistry, cell organization and energetics, genetics and molecular genetics, and evolution and classification. Students in this class will take either the national AP exam or a semester exam. **Prerequisite: Sophomore level science with a minimum grade of B or a teacher recommendation.**

EARTH SCIENCE

10th - 12th Grade

Credit – 1

Year

The course deals with the exchange of energy between the various systems that make up the planet Earth. The topics studied include astronomy, rocks and minerals, geologic time, erosion and mountain building processes, weather, and oceanography. The honors level will take a more in-depth approach.

HONORS EARTH SCIENCE

10th - 12th Grade

Credit – 1

Year

The course deals with the exchange of energy between the various systems that make up the planet Earth. The topics studied include astronomy, rocks and minerals, geologic time, erosional and mountain building processes, weather, and oceanography. Students with strong academic skills are encouraged to take this level due to the greater expectations on homework, lab write ups and exams.

Prerequisite: Teacher Recommendation

AP PHYSICS 1

11th - 12th Grade

Credit – 1

Year

A physics course that provides a systematic study of the laws of nature that gives students a thorough understanding of physics focused mainly on mechanics. This course emphasizes mathematical problem-solving (algebra & trigonometry but not calculus) and is the equivalent to a first-semester college course in algebra-based physics. Students will learn how useful physics is in their own lives and future professions such as biology, pre-medicine, architecture or environmental sciences. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits. Class is taught using class discussion, problem sessions, lab investigations and audiovisual presentations.

Prerequisite: Trig/Pre-Calculus or Algebra III with a grade of C+ or higher.

AP ENVIRONMENTAL SCIENCE (Dual Credit with SEMO University)

11th - 12th Grade

Credit – 1

Year

This course is equivalent to a college freshman level science course. Topics covered will focus on major environmental principles with special emphasis on the impact humans have on their environment.

Prerequisite: 2 previous Science Credits with a B- or higher in each.

HONORS ANATOMY AND PHYSIOLOGY

12th Grade

Credit – 1

Year

Anatomy and Physiology will focus on structure and function of the human body. The addition of this course will be valuable to students who wish to pursue career pathways in medicine. Students will be expected to participate in hands on activities, lecture and give presentations on topics in this field. Students with strong academic skills are encouraged to take this level due to the greater expectations on homework, lab write ups and exams.

Prerequisite: Biology or AP Biology with a grade B- or higher or teacher recommendation.

ECOLOGY 1

10th – 12th Grade

Credit –1/2

Semester 1 only

Ecology 1 will focus on the relationship between organisms and their environment and the dynamics of ecosystems (how nature works). This course will add flexibility to the science curriculum by providing a semester elective course and it can be combined with Ecology 2 to offer the opportunity for students to earn a full unit of science credit by enrolling both semesters.

ECOLOGY 2

10th – 12th Grade

Credit –1/2

Semester 2 only

Ecology 2 will survey natural populations of Southeast Missouri, primarily local animals. This course will add flexibility to the science curriculum by providing a semester elective course and it can be combined with Ecology 1 to offer the opportunity for students to earn a full unit of science credit by enrolling both semesters.

HONORS PRINCIPLES OF ENGINEERING

9th – 12th Grade

Credit – 1

Year

This introductory course explores the wide variety of careers in engineering and technology and covers various technology systems and manufacturing processes. Using activities, projects, and problems, students learn firsthand how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit people. The course also addresses concerns about social and political consequences and technological change.

Prerequisite: Students must be enrolled in or have completed college preparatory sequence of math courses (at least Algebra I or Algebra B in Grade 9).

PLANT BIOLOGY 1 (2019-20)

11th – 12th Grade

Credit – 1/2

Semester 1 only

The plant biology course has been developed to expose learners to the diversity of organisms in the Plant kingdom, as well as the integral relationship between plants and humans. This exposure to biological knowledge will be presented to the learner with hands on lecture alternative activities including campus field trips, laboratory activities and classroom computer presentations.

Prerequisite: Biology or currently enrolled in Biology or teacher recommendation.

PLANT BIOLOGY 2 (2019-20)

11th – 12th Grade

Credit – 1/2

Semester 2 only

The plant biology 2 course has been developed to expose learners to the diversity of aquatic plants and adaptations that allow for their aquatic life history. Emphasis will also be placed on the importance of these plants to the wetland ecosystem. This exposure of biological knowledge will be presented to the learner with hands on activities including campus field trips, in class laboratory activities and classroom computer presentations.

Prerequisite: Biology or currently enrolled in Biology or teacher recommendation.

SOCIAL STUDIES

SOCIAL STUDIES SEQUENCE:

9 American History

Electives:
Cultural World Geography 1

10 World History or AP World History

Electives:
Cultural World Geography 1
Cultural World Geography 2

11 Government (sem) or AP US Government and Politics

(Electives below)

11 or 12 Modern American History (sem) or AP US History (year)

Electives:
AP Comparative Government and Politics
AP Human Geography
Contemporary Issues
Cultural World Geography 1
Cultural World Geography 2
Psychology
Sociology

AMERICAN HISTORY

9th Grade

Credit – 1

Year

This course will explore American History in the years following the Civil War. The course will emphasize Reconstruction, Westward Expansion, Gilded Age, Progressive Era, American Imperialism, World War I, Great Depression and World War II. American History will explore the development of the economic, political, and social systems of the United States. The state mandated civics exam will be given in this course.

WORLD HISTORY

10th Grade

Credit – 1

Year

This course offers a survey review of the early world civilizations, renaissance, reformation, and the enlightenment period, age of revolutions, development of the modern nation-states and will conclude with an examination of the major wars of the twentieth century. This world history course includes the study and exploration of major cultures and societies: the development of the economic, political, religious, and social systems.

CULTURAL WORLD GEOGRAPHY 1

9th – 12th Grade

Credit – 1/2

Semester

Cultural World Geography I explores how people of the **United States, Canada, Middle/South America, Europe and the former Soviet Union** live. This is a study of how location, physical features of the land, climate, and natural resources shape the economy and history of the nation. Religion, ethnic backgrounds, language, and customs of the people are also stressed. Enrichment includes current events, films, and music.

CULTURAL WORLD GEOGRAPHY 2

10th – 12th Grade

Credit – 1/2

Semester

Cultural World Geography II explores how people of **Middle East, Africa, Asia, Australia and the Pacific islands** live. This is a study of how location, physical features of the land, climate, and natural resources shape the economy and history of the nation. Religion, ethnic backgrounds, language, and customs of the people are also stressed. Enrichment includes current events, films, and music.

MODERN AMERICAN HISTORY

11th – 12th Grade

Credit – 1/2

Semester

This course will review American History from 1945 to present day. The course will emphasize the Cold War, Civil Rights Movement, Vietnam War, domestic and foreign politics, globalization, and the War on Terror. The Modern American History class will explore the development of the economic, political, and social systems of the United States.

CONTEMPORARY ISSUES

11th – 12th Grade

Credit – 1/2

Semester

This course emphasizes on current news items dealing in the realm of social, political, and economic areas. Students are encouraged to be aware of the world around them. The use of TV, magazines, newspapers, and other reliable sources provide information for students to learn from the news the changes that will affect their lives. Conducted in an informal manner, students will study printed and video media and relay to the class those contemporary news interests that are transforming the nation and the world.

GOVERNMENT

11th Grade

Credit – 1/2

Semester

This study will review the roots of American government, the Constitutional Convention, and the writing and ratification of the US Constitution. During this study, students will take an in depth view of both the United States and Missouri Constitutions, including the Bill of Rights, amendments, functions of the three branches of government, the basic duties, rights, and responsibilities of all American citizens. The state mandated federal and state constitution exams will be given in this course.

PSYCHOLOGY

11th – 12th Grade

Credit – 1/2

Semester

Psychology is the scientific study of human behavior and the application of that knowledge. Students will explore topics ranging from the intellectual foundations of psychology to mental illness. Special attention is given to topics like sleep and dreaming, sensations and perceptions, growth and mental development, learning theory, and abnormal psychology.

SOCIOLOGY

11th – 12th Grade

Credit – 1/2

Semester

Sociology is the scientific study of human social life. Within the context of the course students will explore the concepts of social class, social mobility, social control, and cultural values. Cultural contrast will also be drawn between societal systems. Modern social problems like crime, the population explosion, and social stratification will also be explored. All class work will be designed to illustrate the organization and developments of human society.

AP WORLD HISTORY

10th Grade

Credit – 1

Year

This course offers an in-depth study of the early world civilizations, renaissance, reformation, and the enlightenment period, age of revolutions, development of the modern nation-states and will conclude with an examination of the major wars of the twentieth century. This world history course includes the study and exploration of major cultures and societies: the development of the economics, political, religious, and social systems. Students will learn to craft historical arguments based upon historical evidence, apply chronological reasoning, compare and contextualize historical developments, and interpret and synthesize historical events based on researched documentation. The advanced course will prepare students for intermediate and advanced college courses. Students enrolling in this course will fulfill their sophomore year World History requirement.

Prerequisite: B- or higher in all social studies courses.

AP UNITED STATES HISTORY (Dual Credit with SEMO University)

11th -12th Grade

Credit – ½ or 1

Semester or Year

This course will provide students with in depth, analytical and factual knowledge of American History. Historical themes of discovery, settlement, diversity, culture, technology, political, social and economics will be explored. Students will be expected to research, analyze a variety of material and express opinions, both written and through oral discussions. **First semester** (US 105 – 3 credit hours) will focus on European discovery of the New World, colonial development, creation of our constitutional government, westward expansion and the Civil War. **Second semester** (US 107 - 3 credit hours) will focus on American industrialization and development of economic and world power throughout the 20th century through to present date. Students enrolling in Second Semester (US 107) will also meet the Modern American History requirement.

Prerequisite: B- or higher in all Social studies courses.

AP COMPARATIVE GOVERNMENT AND POLITICS

11th – 12th Grade

Credit – 1

Year

This course will provide students with a basic understanding of the world's diverse political structures, economies, and governmental practices of specific countries and cultures. Students will be expected to gather and analyze information from outside readings, daily lectures, as well as from the textbook. Student preparation and participation in class discussions as well as well-supported opinions in writing are a course expectation. .

Prerequisite: B- or higher in all Social Studies courses.

AP US GOVERNMENT AND POLITICS

11th – 12th Grade

Credit – 1

Year

This class is an advanced study of the U.S. political system. The following topics for study would include: the structure and interpretation of the United States constitution, governmental institutions, foreign policy, the effects of the media, and the influence and structure of political parties. Students will be expected to gather and analyze information from outside readings, daily lectures, as well as from the textbook. Student preparation and participation in class discussions as well as well-supported opinions in writing are a course expectation. Students enrolling in this course will fulfill their junior year Government Class requirement.

Prerequisite: Must have a minimum of a B- or higher in all Social Studies courses.

AP HUMAN GEOGRAPHY

11th – 12th Grade

Credit – 1

Year

This course is an advanced study of the unique relationships that exist between people and the landscapes around them. The primary focus of the course is to understand *where* human populations and activities are located and *why* this occurs. Specific topics will include: geography as a field of inquiry, population patterns, cultural patterns, political organization of space, land use (rural and urban), as well as industrialization and economic development. Students will be expected to complete assigned readings, actively participate in class discussions, hands-on activities, written expression and field work that illustrate an understanding of geography as well as the ability to think spatially.

Prerequisite: B- or higher in all social studies courses.

ADDITIONAL ELECTIVE COURSES

SCHOOL YEARBOOK

YEARBOOK I

10th – 12th Grade

Credit – 1

Year

Students in this class are responsible for the planning, organization, and the production of the school yearbook. Students sell ads, prepare ad sections, write copy, design layouts, take photographs, and prepare layouts for the yearbook. Students will learn general journalistic principles (AP style) as well as columnar layout and special techniques to help in producing a 200-page publication. **After-school work is required.**

Prerequisite: Grade of C or higher in core English course; Approval of Yearbook instructor; Complete Application with Teacher Recommendation.

YEARBOOK II

11th – 12th Grade

Credit – 1

Year

The second-level yearbook course is designed to help students refine their skills in planning a yearbook ladder, designing and completing various spreads and assignments, copy editing, and placing photos, as well as developing leadership skills, accuracy and accountability. Students may be required to fill an editor's position or take a leadership role on the publication staff. This class will meet at the same time as the Yearbook I class. Attendance at a teacher-specified, professional journalism workshop is required. **After-school work is required.**

Prerequisite: Grade of C or better in core English course; Approval of Yearbook instructor; Complete Application with Teacher Recommendation.

YEARBOOK III

12th Grade

Credit – 1

Year

Students who have completed Yearbook I and II and who desire to refine skills in planning, layout, and technology may elect this course. In addition to development of higher level writing skills and business management procedures, students enhance their knowledge of the laws and ethics of journalism. Students develop and deliver training modules for all staff positions. Students electing this course may apply to fill an editor's position or take a leadership role on the yearbook staff. This class will meet at the same time as the Yearbook I and II class. Attendance at a teacher-specified, professional journalism workshop is required. **After-school work is required.**

Prerequisite: Grade of C or better in core English course; Approval of Yearbook instructor; Complete Application with Teacher Recommendation.

ACT PREPARATION

11th – 12th Grade

Credit – 1/2

Semester

This course is designed to help students improve their ACT performance in the areas of English grammar, mechanics and rhetoric; readings in prose fiction, social sciences, humanities, and science; science reasoning; and mathematics. Students are encouraged to take this course their junior year or their first semester as a senior. Significant time will be dedicated to completion of ACT practice tests, review of math concepts and grammatical and mechanics usage, reading skills, and learning standard test-taking skills including time management.

Prerequisite: Completed or currently enrolled in Geometry or teacher recommendation.

A+ TUTORING/MENTORING CLASS

11th – 12th Grade

Credit – ½

Semester or Year

Students enrolled in the A+ Program class are able to earn A+ tutoring hours by working as a tutor in a class under the supervision of a Cape Girardeau School District teacher. Students will spend the first week of the semester being trained for tutoring. The students will be instructed on tutoring etiquette, confidentiality, appropriate dress, classroom conduct, and tutoring strategies. Students will submit timely reports based on their tutoring experience, including one detailed case study. Tutoring/mentoring hours earned for the A+ Program will be based on the actual number of hours the students tutor. This record will be kept in a log, signed by the supervising teacher, and turned in to the A+ Coordinator.

Prerequisite: Enrollment in the A+ Program, Completion of the A+ Tutoring Class Application, and availability of a suitable placement

COLLEGE READINESS

Spring Semester of 11th Grade or Fall Semester of 12th Grade

Credit – 1/2

Semester

This course is designed to prepare college-bound students for college admission. Students will be introduced to the college application, admission and selection process. Students will have the opportunity to research a wide variety of majors and careers and to explore which colleges offer the best programs in the fields of their choice. Students will identify colleges that are compatible with their interests and resources and complete the application process. In addition, students will search and apply for scholarships and learn how to navigate the financial aid application process. Other topics covered include use of time, money management, studying for college classes, working while in college and the basics of residential life and completing the FAFSA.

LIFESAVING TECHNIQUES

11th – 12th Grades

Credit – 1/2

Semester

In this course, students will be trained in CPR (Adult, Child, and Infant), First Aid and AED (Automated External Defibrillator) through the American Heart Association. They will be given both written and practical exams. Students will be trained in sports safety training, and sports nutrition. This course will prepare the student to be a first responder in an emergency situation. If you want to pursue a medical career or just further develop your health and leadership skills, this course is for you.

Prerequisite: 1 Unit of PE and 1/2 Unit of Health.

PREPARING STUDENTS FOR ACADEMIC SUCCESS (PAS 1, 2, 3, 4)

9th – 12th Grade

Credit –1/2

Semester

This course promotes academic success by supporting students as they advance through high school. Students will be introduced to lessons that will help them to realize their full potential. Topics for lessons will include but are not limited to managing time, developing organizational skills, reading for meaning and understanding, honing inquiry skills, analyzing information, developing critical thinking skills, learning study and test taking strategies, utilizing writing and research skills, understanding internet safety, being a good citizen, building connections at Central High School, as well as investigating career opportunities and making post high school plans. Students will have direct contact with special guest speakers and their PAS teachers, who will provide reinforcement of learning through practice and tutoring.

Prerequisite: Recommendation by the principal and the guidance counselor.

STAGECRAFT

9th – 12th Grade

Credit – 1/2

Semester

This course is designed to provide students with an understanding and practical application of the basics of theater technology and the backstage environment. The class will be broken into units focusing on sets, props, lighting, sound and costumes. Students will design and build sets, costumes and props as well as design and install lighting and sound for the current theatrical productions. Students may repeat this course over multiple years for credit.

FINE ARTS

ART I

9th – 12th Grade

Credit – 1/2

Semester

Art I is a beginning art course that concentrates on the utilization and understanding of the elements of Line, Shape, Form, Value, Color, Space, and Texture for expression. This is primarily a studio-type course with emphasis on techniques of drawing, painting, and art appreciation. Students will explore a variety of media in creative design. A variety of tools and materials will be utilized and introduced during production of artwork. Mounting and other methods of presenting final artwork for exhibit will be emphasized.

ART II

9th – 12th Grade

Credit – 1/2

Semester

Art II continues as a beginning course that concentrates on the methods and Principles of Variety, Emphasis, Movement, Rhythm, Pattern, Proportion, Balance, and Unity that successfully arrange the “Elements of Art” and influence creativity, artistic expression, and aesthetic judgment. This is primarily a studio-type course that emphasizes techniques of drawing, painting, and art appreciation. Students will further explore a variety of media in creative design. A variety of tools and materials will be utilized and introduced during production of art work as well as improving previously learned skills. Mounting and other methods of presenting final art works for exhibit are emphasized.

Prerequisite: Art I

ART III

10th – 12th Grade

Credit – 1

Year

Art III concentrates on a working knowledge of the Elements and Principles of Art for creativity, personal expression, and successful artistic production. This course emphasizes awareness of unique expressive styles, aesthetic skills and abilities to solve artistic problems and to make value judgments about works of art by past and present artists. Studio work will emphasize advanced techniques of drawing and painting utilizing mixed media and improving skills using tools and materials. Studio work will explore tactile texture and graphic expression. Professional matting and shrink wrap are required of two pieces of artwork. Participation in art shows, exhibits and competitions will be emphasized. Consumable materials fee will be \$20.00.

Prerequisite: Art II with a grade of B or higher or teacher permission.

ART IV

11th – 12th Grade

Credit – 1

Year

Art IV emphasizes the serious art student and stresses experimentation, creativity, and artistic expression through a variety of media and techniques. Advanced painting media will be introduced. Graphic and sculptural techniques will be explored. Refinement of skills using tools and materials will be stressed in all design work. The course will explore various careers and vocations utilizing the areas of art and contemporary trends. Portfolios will be encouraged. Professional matting and shrink wrap are required of two pieces of artwork. Participation in art shows, exhibits and competitions will be required. Consumable materials fee will be \$ 20.00.

Prerequisite: Art III with a grade of B or higher or teacher permission.

ART V

12th Grade

Credit – 1

Year

Art V emphasizes the serious art student and stresses experimentation, creativity, and artistic expression through a variety of media and techniques. Advanced painting media will be introduced. Printmaking, fiber art, and mixed media will be explored. Refinement of skills using tools and materials will be stressed in all design work. Portfolios will be encouraged. Professional mattings are required of at least two pieces of artwork. Participation in art shows, exhibits and competitions will be required. Consumable materials fee will be \$40.00.

Prerequisite: Art IV with a grade of B or higher or teacher permission.

AP STUDIO ART

12th Grade

Credit – 2

Year

AP Studio Art has been developed to accommodate serious art students who have expressed in interest in completing the AP Drawing Portfolio or the AP 2-D Design Portfolio. Through studio practice, application of design concepts and informed decision making, these students will assemble a body of artwork that demonstrates a high level of quality and growth over time of content, technique, and process. Students will investigate all three parts of their portfolios as required by the AP college Board: by digital photos and by PowerPoint. Students are also required to maintain a portfolio throughout the year and participate in art shows, exhibitions and competitions. Consumable material fee will be \$40.00.

Prerequisite: Art IV with a grade A or teacher permission.

CERAMICS I

9th – 12th Grade

Credit – 1/2

Semester

This course is designed to provide a student with an understanding and working knowledge of earthenware. The basic methods of pinch, coil, slab, and forming in clay will be taught. From these methods students will be required to construct three-dimensional forms. The principles of glaze application will be taught as well as the history of ceramics. Consumable materials fee will be \$20.00.

Prerequisite: Art I

CERAMICS II

10th – 12th Grade

Credit – 1/2

Semester

This course continues improving skills previously learned and emphasizes greater understanding and working knowledge of basic methods and techniques of earthenware. There will be an emphasis on sculpture in working with form, space, color (glazing), texture, line, and shape. Consumable materials fee will be \$20.00.

Prerequisite: Ceramics I with a grade of B or higher or teacher permission.

SCULPTURE

10th – 12th Grade

Credit – 1

Year

This course is designed for the serious art student and stresses experimentation in three-dimensional design. Students will explore a wide range of media (wood, stone, and metal), tools, and techniques. Students will develop fundamental and personal concepts concerning subject matter and problem solving as related to sculpture. Consumable materials fee will be \$40.00. Purchasing extra materials will be necessary.

Prerequisite: 1 credit of Art with a grade of B or higher or teacher permission.

DRAMA

DRAMA I

9th – 12th Grade

Credit – 1/2

Semester

This course focuses on the basic theories and skills of the dramatic process. Students will discover how to use mind/body/voice to demonstrate knowledge and application of terminology and practices used in theater. Students will write scripts, perform original and classic pieces, and analyze and research charters and plays.

DRAMA II

9th – 12th Grade

Credit – 1/2

Semester

This course is designed to take acting to a level beyond Drama I by providing students with advanced training in acting technique and performance preparation. Throughout the semester, students will build an acting portfolio using both published pieces and original performance pieces. Students will read and analyze plays as well as prepare scenes from these plays. Students will practice the audition process and gain knowledge about dramatic performance as a career.

Prerequisite: Drama I

MUSIC

MARCHING BAND

9th – 12th Grade

Credit – 1/2

Fall Semester

This course provides opportunities for students who play woodwind, brass and percussion instruments to develop playing and performance skills in the marching band environment. The course is also open to students performing in the marching band color guard. The primary focus of this class is the refinement of the band show within the context of marching band competitions. Band members are required to participate in all activities including home football games, parades, band competitions, pre-school marching clinics and after school rehearsals. Marching season generally coincides with the first semester. May be combined with second semester Wind Symphony with an audition

Prerequisite: Audition and approval of instructor.

WIND SYMPHONY

9th – 12th Grade

Credit – 1/2

Spring Semester

This course is designed for the advanced instrumental musician. Concentrating on the development of instrumental technique, musicianship, music reading, and the fundamentals of instrumental performance, this spring semester class requires attendance at all rehearsals and performances. Admission to this class is by audition and consent of the director.

Prerequisite: Audition and approval of instructor.

CONCERT BAND

9th -12th Grade

Credit – 1

Year

This course provides opportunities for students who play woodwind, brass and percussion instruments to develop the fundamentals of playing and performance skills in the concert band environment. The primary focus of this class is the refinement of individual technique and artistry on each student's instrument as well performing within the concert band environment.

Prerequisite: Prior instrumental experience or approval of instructor.

JAZZ BAND

9th – 12th Grade

Credit – 1/2

Spring Semester

This course is devoted primarily to the continuation and/or development of individual and ensemble performance techniques in the style of Jazz, Latin, Rock, and the Blues. Students will also learn basic skills in the art of improvisation as well as gain insight into the history of the most famous musicians in these genres. Students will perform at jazz festivals, school concerts, and community events during the spring semester.

Prerequisite: Students must be enrolled in concert band, or marching band 1st semester and have approval of instructor.

CONCERT ORCHESTRA

9th -12th Grade

Credit – 1

Year

This course provides continued study for students who play violin, viola, cello or string bass to develop the fundamentals of playing and performance skills in a string orchestra ensemble. The primary focus of this class is the refinement of individual technique and artistry on each student's instrument as well as performing within the string orchestra.

Prerequisite: Prior instrumental experience or approval of instructor.

SYMPHONIC ORCHESTRA

9th – 12th Grades

Credit – 1

Year

This course is designed for the advanced violin, viola, cello or string bass, or harp musician. It will concentrate on the development of string instrument technique, musicianship, music reading, and the fundamentals of instrumental performance. This class requires attendance at all rehearsals and performances.

Prerequisite: Audition and approval of instructor

TREBLE CHOIR

9th – 12th Grades

Credit – 1

Year

This course is designed for the beginning FEMALE vocal student. Emphasis will be placed on vocal technique, musicianship, music reading, and the fundamentals of choral singing. Attendance to all rehearsals and performances is required.

Prerequisite: Audition and consent of the director.

MEN'S CHOIR

9th– 12th Grades

Credit – 1

Year

This course is designed for the beginning male vocal student. Emphasis will be placed on vocal technique, musicianship, music reading, and the fundamentals of choral singing. Attendance to all rehearsals and performances is required.

Prerequisite: Audition and consent of the director.

WOMEN'S CHOIR

10th – 12th Grades

Credit – 1

Year

This course is designed for the musically talented and advancing female voice. Concentrating on the development of vocal technique, musicianship, music reading, and the fundamentals of choral singing, this year-long course requires attendance at all rehearsals and performances.

Prerequisite: Audition and consent of the director.

CONCERT CHOIR

10th – 12th Grades

Credit – 1

Year

This course is designed for the musically talented and advanced MALE or FEMALE vocal student. Students must demonstrate experience in choral singing and an adequate knowledge of good singing technique and sight-reading skills. Attendance to all rehearsals and performances is required.

Prerequisite: Audition and consent of the director

MUSIC APPRECIATION

9th – 12th Grades

Credit – 1/2

Semester

This class is open to all students. Students will study the fundamentals of music, music history, and music in our current cultural context. This is not a performance-based class and students will study the material through textbooks and other written, oral, and visual sources.

AP MUSIC THEORY

11th – 12th Grades

Credit – 1

Year

This is an advanced theory course for students of high ability showing evidence of music background and performance experience in band, choir, orchestra, or private instrument (piano, etc.) The course is recommended for college bound students continuing in music.

Prerequisite: Approval of instructor.

WORLD LANGUAGES

The Department of World Languages offers Chinese, French, German, and Spanish plus an honors track in Levels I and II of French and Spanish.

Honors track The honors track available in Levels I and II of French and Spanish expands and accelerates the regular curriculum. Eligibility for the honors track will be determined according to the student's grade in previous year's World Language class, or by teacher recommendation as determined by the school counselors. Level III in all languages is designated as honors and AP Language and Culture I and II are offered in French and Spanish. (AP Language and Culture is offered as a fourth and fifth year of study.)

Students studying the same language continuously through their high school career and who attend a Missouri state college or university may earn retroactive credit. During the first semester at the Missouri state college or university, if the student takes a second or third level course and earns a minimum grade of C, the student will be awarded all prerequisite credit upon course completion.

Native speakers are discouraged from taking their own language. Please meet with your counselor or the World Language teachers to discuss options.

FRENCH I

9th – 12th Grade

Credit – 1

Year

Classes stress vocabulary acquisition and use of language in context to convey meaning through storytelling and music. Emphasis is placed on effective communication incorporating grammar. Cultural content is oriented toward the appreciation of the francophone world through readings, projects, and music. Technological and other tools are utilized to enhance vocabulary acquisition, aural, and oral proficiency and a command of the written language. General focus is on communication in the present, simple future tenses and simple past tenses.

Prerequisite: English with a grade of C+ or higher and/or a recommendation from English / Exploratory Languages instructor.

HONORS FRENCH I

9th – 12th Grade

Credit – 1

Year

Classes stress expanded vocabulary acquisition and use of language in context to convey meaning through storytelling and music. Emphasis is placed on effective communication incorporating grammar. Cultural content is oriented toward the appreciation of the francophone world through readings, projects, and music. Technological and other tools are utilized to enhance vocabulary acquisition, aural, and oral proficiency and a command of the written language. The Honors curriculum will expand the regular French I curriculum to include the past tenses.

Prerequisite: English with a grade of B+ or higher and a recommendation from student's English teacher.

FRENCH II

9th – 12th Grade

Credit – 1

Year

Students continue to build skills fostered in French I as described in French I. Classes feature increased emphasis on oral and written proficiency with grammar, vocabulary, and cultural skills taught in communicative context. General focus is on communication in the past tenses with review of the present tense.

Prerequisite: French I with a grade of C+ or higher, or teacher recommendation.

HONORS FRENCH II

9th – 12th Grade

Credit – 1

Year

Students continue to build skills fostered in French I Honors as described in French I Honors. Classes feature increased emphasis on oral and written proficiency with grammar, vocabulary, and cultural skills taught in communicative context. General focus is on communication in the past tenses with review of the present tense and acquisition of the future and conditional tenses.

Prerequisite: Honors French I with a grade of B+ or higher or recommendation of teacher.

HONORS FRENCH III

10th – 12th Grade

Credit – 1

Year

Students increase proficiency in the four major skill areas (listening, reading comprehension, speaking, and writing). Students engage in progressively complex communicative tasks through storytelling, conversation, reading, and writing, music and film. Various teaching strategies addressing different learning styles allow students to communicate within more authentic linguistic contexts. Students are exposed to prescribed vocabulary used in the past, present and future.

Prerequisite: French II with a grade of B+ or higher.

AP FRENCH LANGUAGE AND CULTURE I

11th – 12th Grade

Credit – 1

Year

Students increase proficiency in the four major skill areas (listening, reading comprehension, speaking, and writing) around the six AP Themes of Family and Communities, Beauty and Aesthetics, Science and Technology, Global Challenges, Contemporary Life, and Personal and Public Identities. Students engage in progressively complex communicative tasks through storytelling, conversation, reading, writing, and authentic listening activities. Students will also read two authentic target language novels and watch and interact with authentic target language movies throughout the year. Various teaching strategies addressing different learning styles allow students to communicate within more authentic linguistic contexts. Students are exposed to prescribed vocabulary used in the past, present, future, as well as compound tenses. Students will read an assigned novel during the summer before this class.

Prerequisite: Honors French III with a grade of B+ or higher or teacher recommendation.

AP FRENCH LANGUAGE AND CULTURE II

11th – 12th Grade

Credit – 1

Year

Students continue to build upon increasing proficiency from AP French Language and Culture I in the four major skill areas (listening, reading comprehension, speaking, and writing) centered around the six AP Themes of Family and Communities, Beauty and Aesthetics, Science and Technology, Global Challenges, Contemporary Life, and Personal and Public Identities. Students engage in progressively complex communicative tasks through storytelling, conversation, reading, writing, and authentic listening activities. Students will read two authentic target language novels and watch and interact with authentic target language movies throughout the year. Various teaching strategies addressing different learning styles allow students to communicate within more authentic linguistic contexts. Students are exposed to prescribed vocabulary used in the past, present, future, as well as compound tenses. Students will read an assigned novel during the summer before this class.

Prerequisite: AP French Language and Culture I with a grade of B+ or higher or teacher recommendation.

SPANISH I

9th – 12th Grade

Credit – 1

Year

Spanish I will stress vocabulary acquisition and use of language in context to convey meaning. Stress is placed on effective communication, incorporating grammar fundamentals and cultural information in a communicative context. Technological and other communicative tools are utilized to enhance vocabulary acquisition, pronunciation, aural and oral proficiency, and a command of the written language. General focus is on communication in the present tenses.

Prerequisite: English with a grade of C+ or higher and/or a recommendation from English / Exploratory Languages instructor.

HONORS SPANISH I

9th – 12th Grade

Credit – 1

Year

This class accelerates the curriculum of basic Spanish I to incorporate more vocabulary and practice in reading and writing. In addition, students will learn to communicate in the past tenses as well as the present.

Prerequisite: English with a grade of B+ or higher and/or a recommendation from English / Exploratory Languages teacher.

SPANISH II

9th – 12th Grade

Credit – 1

Year

Students continue to build skills fostered in the introductory course described above. Classes feature increased emphasis on oral and written proficiency, with vocabulary, grammar and cultural skills taught in communicative context. General focus is on communication in the past tenses, with review of the present.

Prerequisite: Spanish I with a grade of C+ or higher, or teacher recommendation.

HONORS SPANISH II

9th – 12th Grade

Credit – 1

Year

Students will have an intensive review of vocabulary, as well as present and past tenses, and will learn the future and conditional tenses. Emphasis will continue to be on oral and written communication in the language, with increased attention to grammatical precision. Students will have many opportunities to expand their aural and reading comprehension, as well as increase their ability to express themselves effectively in conversation and in writing.

Prerequisite: B+ or higher in Honors Spanish I and/or recommendation from Spanish teacher.

HONORS SPANISH III

10th – 12th Grade

Credit – 1

Year

Students increase proficiency in the four major skill areas (listening and reading comprehension, speaking and writing) and engage in progressively complex communicative tasks through storytelling, conversation, formal presentations, reading and writing. Various teaching strategies addressing different learning styles allow students to communicate within more authentic linguistic contexts. Grammar instruction will focus on the perfect tenses and the subjunctive mode, and vocabulary acquisition will continue to be paramount.

Prerequisite: Honors Spanish II with a grade of B+ or higher or recommendation from Spanish teacher.

AP SPANISH LANGUAGE AND CULTURE I

11th - 12th Grade

Credit – 1

Year

Students increase proficiency in the four major skill areas (listening, reading comprehension, speaking, and writing) around the six AP Themes of Family and Communities, Beauty and Aesthetics, Science and Technology, Global Challenges, Contemporary Life, and Personal and Public Identities. Students engage in progressively complex communicative tasks through storytelling, conversation, reading, writing, and authentic listening activities. Students will read two authentic target language novels and watch and interact with authentic target language movies through the year. Various teaching strategies addressing different learning styles allow students to communicate within more authentic linguistic contexts. Students are exposed to prescribed vocabulary used in the past, present, and future, as well as compound tenses. Students will read an assigned novel during the summer prior to this class.

Prerequisite: Honors Spanish III with a grade of B+ or higher, or teacher recommendation.

AP SPANISH LANGUAGE AND CULTURE II

11th - 12th Grade

Credit – 1

Year

Students continue to build upon increasing proficiency from AP Spanish Language and Culture I in the four major skill areas (listening, reading comprehension, speaking, and writing) centered around the six AP Themes of Family and Communities, Beauty and Aesthetics, Science and Technology, Global Challenges, Contemporary Life, and Personal and Public Identities. Students engage in progressively complex communicative tasks through storytelling, conversation, reading, writing, and authentic listening activities. Students will read two authentic target language novels and watch and interact with authentic target language movies throughout the year. Various teaching strategies addressing different learning styles allow students to communicate within more authentic linguistic contexts. Students are exposed to prescribed vocabulary used in the past, present, future, as well as compound tenses. Students will read an assigned novel during the summer prior to this class.

Prerequisite: AP Spanish Language and Culture I with a grade of B+ or higher, or teacher recommendation.

GERMAN II – Online Course

10th – 12th Grade

Credit – 1

Year

Students will continue to build on skills learned in German I through the continuation of the online program. Students will be exposed to more advanced structures through an immersion-type setting.

Prerequisite: C+ or higher in German I and/or recommendation of the German teacher.

HONORS GERMAN III – Online Course

11th – 12th Grade

Credit – 1

Year

German III offers the student the opportunity to increase fluency in speaking, effectiveness in writing, and comprehension in reading. The German III student will be expected to write and perform skits, to write short essays and stories in German, and to do independent reading. In addition, he or she will continue to learn correct grammar.

Prerequisite: B+ or higher in Honors German II and/or recommendation of the German teacher.

HONORS GERMAN IV – Online Course

12th Grade

Credit – 1

Year

Students increase proficiency in the four major skills areas (listening, reading comprehension, speaking, and writing). Students engage in progressively complex communicative tasks through storytelling, conversation, reading and writing. Various teaching strategies addressing different learning styles allow students to communicate within more authentic linguistic contexts. Students are exposed to prescribed vocabulary in the present, past, and future, as well as compound tenses. The nominative, accusative, dative, and genitive cases will

be studied in greater depth. Literature, music, art, and cinema will be used to enhance linguistic and cultural understanding of German-speaking countries. Independent reading is required.

Prerequisite: B+ or higher in Honors German III and/or recommendation of the German teacher.

CHINESE II – Online Course

10th – 12th Grade

Credit – 1

Year

Chinese II will expand communication skills in terms of depth and coverage. Students will learn more complicated vocabulary and sentence patterns. Topics may include but not be limited to: travel, shopping and social life. This course will continue to expand the four communication skills areas of reading, writing, speaking and listening.

Prerequisite: Chinese I with a grade of C or higher or a recommendation from the Chinese teacher

HONORS CHINESE III – Online Course

10th – 12th Grade

Credit – 1

Year

Honors Chinese III will expand students' communication skills in terms of depth and coverage. Students will learn to understand more complicated topics and express their own opinions. Topics may include but be limited to: school life, social activities, society comparison. Additionally, students will be expected to read and write Chinese using formal language, and understand authentic material designed for native Chinese speakers.

Prerequisite: Chinese II with a grade of B+ or higher or a recommendation from the Chinese teacher

HONORS CHINESE IV – Online Course

12TH Grade

Credit – 1

Year

Honors Chinese IV students will further expand their ability to communicate in a variety of textual and circumstantial contexts. Students will develop the interpretive, presentational, and interpersonal skills in all four major areas (listening, reading, speaking, and writing) and increase their culture, linguistic knowledge and critical thinking ability in target language through authentic materials.

Prerequisite: Chinese III with a grade of B+ or higher, or recommendation from the Chinese teacher.

PHYSICAL EDUCATION AND HEALTH

Students are expected to dress out daily in a complete change of clothing from that which is worn to school that day. All shirts, shorts, and pants must follow the school dress code. Athletic shoes are required. It is recommended that only one physical education class may be scheduled each semester unless there are extenuating circumstances.

The following procedures will be followed when students enrolled in physical education have medical excuses:

1. Students with medical excuses are to remain in the physical education class with assignments made by the teacher, when applicable.
2. If the medical excuse extends beyond thirty school days accumulated in one semester, the student will be removed from the class and required to take it at a later date. If the student returns prior to the thirty school days, immediate participation is expected.
3. Students receiving permanent medical excuses from physical education will be required to complete a modified physical education program.

9th GRADE PHYSICAL EDUCATION

Credit – 1/2

Year

Physical Education consists of health related issues, conditioning and body building activities, and participation in team and individual games and sports which have carry-over value for the adult years. A six week health unit will be taught covering topics such as: nutrition, physical fitness, tobacco, alcohol, drugs, communicable diseases, stress, reproduction, and sexually transmitted diseases. Students in grade 9 are required to enroll in a Year of physical education or Intro to Athletic Fitness.

INTRO TO ATHLETIC FITNESS

9th - 12th Grade

Credit – 1/2

Semester

This introductory course to athletic fitness will stress the fundamentals of weight training, aerobic & anaerobic conditioning, flexibility, agility, speed, power, balance, and plyometrics. The students will be exposed to numerous fitness components through various tests of power, strength, cardiovascular fitness, and agility. The students will also learn safety issues and how to use proper techniques on each lift. Health-related issues will be addressed in regard to sports and nutrition. The students will be graded on technique, participation, attitude, effort, and course assessments. This class is based on proper fundamental techniques designed to increase performance and to decrease injury.

Prerequisite: Permission of instructor.

ATHLETIC FITNESS

10th – 12th Grades

Credit – 1/2 or 1

Semester or Year

This course will stress physical development of a person through the use of weight training, aerobic and anaerobic conditioning, flexibility, agility, speed, power, balance, and plyometrics. The students will be exposed to numerous fitness components through various tests of power, strength, cardiovascular fitness, and agility. The students will also learn safety issues and how to use proper techniques on each lift. The students will be graded on improvement, participation, attitude, and effort. This class is based on increasing performance and decreasing injury.

Prerequisite: Permission of instructor and/or Intro to Athletic Fitness

10th GRADE PHYSICAL EDUCATION

Credit – 1/2

Semester

Physical Education consists of health related issues, conditioning and body building activities, and participation in team and individual games and sports which have carry-over value for the adult years. Students in grade 10 are required to enroll in a semester of physical education or Athletic Fitness.

HEALTH

10th Grade

Credit – 1/2

Semester

In this course, students will be involved in classroom experiences pertaining to health problems and practices of young adults. Personal health, body systems, nutrition, physical fitness, first aid, safety, mental health, stress reduction, disease prevention and control, family and human sexuality, substance abuse, environmental and community health, and consumer health will be among the topics. Students in grade 10 are required to enroll in a semester of health. The state mandated CPR exam will be given in this course.

FITNESS AND WELLNESS

11th – 12th Grades

Credit – 1/2 or 1

Semester or Year

This course will offer eighteen weeks of physical fitness training. The students will be exposed to various fitness components involved in physical development. The students will be tested to determine their level of power, strength, agility, and cardiovascular fitness. The activities of the course will be designed to enhance the physical development of the individual student. The students will learn how various types of physical training will enhance the cardiovascular and musculoskeletal development of the human body.

Prerequisite: 1 Unit of PE.

ADAPTED PHYSICAL EDUCATION

9th - 12th Grades

Credit – 1

Year

This course is designed for students who have handicapping conditions whose needs cannot be met in regular physical education classes. The activities will be designed to meet the needs of the individual student. The course may be repeated and will serve to meet the two units of required physical education credit for graduation.

Prerequisite: Recommended by physician, counselor, and principal.

RACQUET SPORTS

11th – 12th Grades

Credit – 1/2 or 1

Semester or Year

This course will offer eighteen weeks of racquet and leisure activities. Tennis will provide students an opportunity to learn or improve basic skills: serve, forehand, and backhand. Rules and etiquette will be reviewed. Singles and doubles will be played. Rules, skills, and strategy for table tennis, pickle-ball, badminton, and others will be taught. Emphasis will be to teach skills and rules so that he or she may enjoy these activities later in life. Cardiovascular fitness will also be addressed. In-class tournament play will be provided.

Prerequisite: 1 Unit of PE.

TEAM SPORTS

11th – 12th Grades

Credit – 1/2 or 1

Semester or Year

The basic fundamental skills, etiquette, rules, and terminology of basketball, volleyball, flag football, softball, and other major team sports will be stressed in this course. Emphasis will be on the game play with three-week time allotment for each activity. Cardiovascular fitness will also be addressed.

Prerequisite: 1 Unit of PE.

PERSONAL FINANCE

Students are required during their junior or senior year to take one of the following courses to meet the state graduation requirements.

CONSUMER EDUCATION

11th - 12th Grade

Credit – 1/2

Semester

This course is designed to teach the student how to be an efficient consumer, worker, and citizen by making wise decisions about food, clothing, transportation, housing, health services, credit, banking, saving, and investing while exploring career opportunities in those areas.

PERSONAL FINANCE

11th-12th Grade

Credit – 1/2

Semester

This course is an advanced level course designed to teach students to recognize rights and responsibilities in a free enterprise system and to understand the role of sound financial planning in keeping one's business and home solvent. The course includes an in-depth study of the following topics: money management, saving and investment, credit management, acquiring housing and transportation, insurance, consumer rights and responsibilities.

PRACTICAL ARTS

BUSINESS / MARKETING:

ACCOUNTING I

10th – 12th Grade

Credit – 1

Year

Accounting 1 is designed to give basic knowledge and skills used in double-entry accounting systems. Activities include entering transactions in journals, posting to ledgers, preparing statements and reports, and doing payroll and banking functions. Accounting activities for the computer are included with many of the topics studied. This course meets objectives for the future study in accounting as well as other related business fields.

ACCOUNTING II

11th – 12th Grade

Credit – 1

Year

Accounting II is designed to help the student acquire a more thorough, in depth knowledge of accounting procedures and techniques utilized in solving business problems and making financial decisions. Students should develop skills in analyzing and interpreting information common to partnerships and corporate forms of organization, preparing formal statements and supporting schedules, and using voucher systems. Emphasis is given to computer-based accounting procedures. This course is very helpful for future business study at the post high school level.

Prerequisite: Accounting I with a C+ or higher or teacher recommendation.

BANKING AND FINANCE

10th - 12th Grade

Credit – 1/2

Semester

This course is an introduction to the broad area of banking and finance. Topics include the evolution of banking, Federal Reserve System, documents and forms used, basic laws and regulations. Also included will be topics in finance from the areas of corporate and investment theory, the value of financial assets, risk management and finance ethics.

BUSINESS LAW

11th - 12th Grade

Credit – 1/2

Semester

Business law is a study of business law that applies to minors and adults. The legal issues, which are studied, focus on the interests of consumers and business. The learning material will help students achieve an understanding of legal principles, which will be useful throughout life. Course topics include: ethics and law,

criminal and tort law, the court system, trial procedures, contract law, the law of sales and sales warranties, consumer protection, buying and insuring a car, and personal property and bailment. Course work includes discussion, case study and analysis, and participation in a mock trial.

BUSINESS MANAGEMENT

9th – 12th Grade

Credit – 1/2

Semester

This course is designed to provide the student with an overview of business management. Students will gain an understanding of the various management styles, how business goals are set, and how these goals are shaped by the business's structure. This is an ideal course for those students who have a career interest in marketing or management

CAREER IMAGES

9th – 12th Grade

Credit – 1/2

Semester

This course is designed to help students master the skills in successfully exploring, selecting, securing, maintaining, and succeeding in the world of work. The core of the course allows students to explore careers and investigate occupations in career clusters.

COMPUTER APPLICATIONS

9th – 12th Grade

Credit – 1/2

Semester

In this course, students will learn computer skills that will be of great help to them in their core classes. Students will be exposed to Office 2013 and will work in Word, Excel, PowerPoint as well as creating documents, spread sheets and presentations using Google Drive. In Word, they will learn to format letters, memos, and reports in MLA format as required by the Language Arts classes. In Excel they will create spreadsheets, develop charts and practice reading charts. PowerPoint will allow them to develop their skills in developing presentations like they would use in core classes. Students will also practice file management, proofreading, editing, and efficient Internet use. This course is highly recommended by the Language Arts Department prior to enrolling in English III.

Prerequisite: Keyboarding in grade 8 or higher.

ADVANCED COMPUTER APPLICATIONS 1 (Dual Credit with SEMO University)

9th – 12th Grade

Credit – 1/2

Semester

Want to get homework and classwork finished faster? Improving your skills in Word and Excel will make you more efficient in high school, college and the work place, Excel is currently in high demand in the workplace, and it is used in many college majors from business to engineering. We will format reports using the reference tab so you will be more prepared to format those research papers at the high school and college level. To earn

dual credit with SEMO, the student will have to complete **both** Advanced Computer Applications 1 and Advanced Computer Applications 2. (They do not need to complete both courses in consecutive order). This class is highly recommended by the English department for juniors in preparation of their research paper.

Prerequisite: Computer Applications, teacher recommendation or test out of Computer Applications.

ADVANCED COMPUTER APPLICATIONS 2 (Dual Credit with SEMO University)

9th – 12th Grade

Credit – 1/2

Semester

Create presentations, design electronic books, business cards and more. Students will complete PowerPoint, Publisher, and Access projects. The basic Access program will prepare students to use databases in college and at work. To earn dual credit with SEMO, the student will have to complete **both** Advanced Computer Applications 1 and Advanced Computer Applications 2. (They do not need to complete both courses in consecutive order).

Prerequisite: Computer Applications or teacher recommendation

E-BUSINESS

10th – 12th Grade

Credit – 1/2

Semester

This class is designed for a student with some computer and webpage design experience. Students will study topics such as advantages and disadvantages of on-line business, internet security, developing an e-business plan, a business website and buying and selling on the Internet.

Prerequisite: Computer Applications with a grade of C- or higher or teacher recommendation.

ENTREPRENEURSHIP

11th – 12th Grade

Credit – 1

Year

Entrepreneurship is a year-long class that teaches students the skills and knowledge of business ownership as well as the important human values that will guide them to success in the workplace and in life. This will be a hands-on learning experience that covers such skills as business knowledge, self-awareness, economic concepts, critical thinking, self-confidence, budgeting and financial understanding, and taking on the challenges of working hard and being a self-starter.

INTRODUCTION TO BUSINESS 1

9th – 12th Grade

Credit – 1/2

Semester

Introduction to Business 1 is a general course that provides essential background information about many aspects of business. A major purpose of the course is to contribute to improved consumer education --the development of individuals who are knowledgeable and appreciative of the American business and financial affairs, and are

skillful in selecting and using goods and services of business. Topics include types of business ownership, labor and government, career planning, rights and responsibilities of consumers, and computer technology.

INTRODUCTION TO BUSINESS 2

9th – 12th Grade

Credit – 1/2

Semester

Introduction to Business 2 is a general course that provides essential background information about various aspects of business. Course topics are designed to help students become knowledgeable and appreciative of the American business system, become competent and efficient in managing their own business affairs, and become wise consumers. Topics include banking and financial services, the use of credit, savings and investments, insurance, and financial management.

INTRODUCTION TO PHOTOSHOP

9th – 12th Grade

Credit – 1/2

Semester

This course is an introductory level class in digital image editing using Adobe Photoshop, the premier software-based application for photo manipulation. Students will use computer software-based tools to learn editing concepts such as layers, selection techniques, brushes, filters and text editing to enhance existing photos and create original works of art.

Prerequisite: Computer Applications with a grade of C- or higher.

KEYBOARDING

9th – 12th Grade

Credit – 1/2

Semester

Keyboarding is an introductory course and is designed to teach the basic skills of touch keyboarding and the formatting of documents. During the first part of the course, the keyboard is taught. The latter part of the course is devoted to the formatting and keying of memos, personal/business and business letters in block format, simple tables, and unbound reports.

RECORD KEEPING

9th – 12th Grade

Credit – 1/2

Semester

Record keeping is an elective course designed to help students acquire basic life skills including: computer awareness, accuracy and neatness, checking, decision making, proper work habits, organization, budgeting, credit, payroll computations, and business terminology. Students will also obtain employment skills in the areas of filing, cash receipts and cash payments, journalizing and posting, purchasing, selling, payroll, and computing. Upon completion of this course, students will be prepared for additional study in accounting.

TIGER TECH

10th – 12th Grade

Credit – 1

Year

This course is offered under the direction of a Business Education Teacher and the Tiger Tech Department, and has been designed for the technology minded student. This will be a year long course, one half will be directed toward completing the TestOut Network Pro online course. This curriculum introduces the students to networking concepts, allowing them to learn using simulations, videos, and labs. This may lead them into the high demand field of Networking. The other half of the class the student will work in conjunction with the Tiger Tech Department at Cape Central High School and will train on hardware, software and troubleshooting repairs on student and teacher devices as needed. Preference will be given to Seniors, Juniors and second semester sophomores.

Prerequisite: Computer Applications with a grade of C or higher and business teacher recommendation.

TRAVEL AND TOURISM

9th – 12th Grade

Credit – 1/2

Semester

This course focuses on careers within the tourism and hospitality fields: travel, tourism, food service, lodging, and recreation and travel related services. Have you eaten at restaurants and visited events like a sporting event, fair or parade? We will study how these affect the local economy. Each field of study will be explored with classroom discussion and hands-on activities. This would be an excellent course to take for students interested in working in one of these career fields.

WEB PAGE DESIGN

10th – 12th Grade

Credit – 1/2

Semester

Have you ever thought of creating a website or designing an app? Many jobs in today's world require you to update or maintain a page on their websites as part of their jobs. In this class, you will design and publish websites using a variety of software including Microsoft Expressions, Publisher, HTML and free online publishing software. Since so many websites are going to apps for devices and smart phones, we will also investigate online web tools that will allow us to create apps.

Prerequisite: Computer Applications with a grade of C- or higher.

Please see One Hour Course Offerings at CTC for more business classes.

FAMILY AND CONSUMER SCIENCES:

FAMILY MEALS

10th – 12th Grade

Credit – 1/2

Semester

This course is designed to introduce students to a variety of foods. It emphasizes proper safety and sanitation guidelines. The students will develop proper skills for preparing a variety of foods as well as the knowledge they need to make informed decisions about each food. Part of the class is book work and part is lab work. Careers in the food industry will be introduced.

ADVANCED FOODS

10th – 12th Grade

Credit – 1/2

Semester

This course is designed to teach the student advanced techniques of food preparation. Proper safety and sanitation practices as well as basic knowledge of preparation techniques are required. This class features units to increase student awareness of current careers, health and technology as related to the food industry.

Prerequisite: Family Meals with a grade of C- or higher or teacher recommendation.

CHILD DEVELOPMENT I

10th – 12th Grade

Credit – 1/2

Semester

This course focuses on the development of children from conception through age six. Development includes not only physical maturation but also an understanding of how emotional, social, and intellectual development are fostered and hindered. The interrelationship of all areas of development is stressed throughout the course. This development approach is interwoven with application to parenting and childcare situations as well as careers in childcare.

CHILD DEVELOPMENT II

11 – 12th Grade

Credit – 2 to 3

Year

This course is designed to give students practical experience in the field of early childhood. This course is of special interest to those planning a career in education. Students are assigned to a district elementary school as a teacher's aide. Transportation must be provided by the student.

Prerequisites: Child Development I or currently enrolled in Child Development and teacher recommendation.

FASHION STRATEGIES

9th – 12th Grade

Credit – 1/2

Semester

This course introduces the students to the world of fashion, enabling the students to become wise consumers in the area of clothing. The field of fashion merchandising will be introduced both as a career option and as it relates to purchasing practices. Students will gain experience and a level of expertise in the area of clothing construction. Students will be required to purchase the supplies he/she and the instructor agree meets the needs and expectations for the course.

HOUSING AND INTERIOR DESIGN

9th – 12th Grade

Credit – 1/2

Semester

This course examines the interrelationship of human needs, culture, society and housing. Aesthetics of architectural styles, analysis of housing selection, floor plans, home furnishing and furniture arrangement will be taught. The application of the elements and principles of design will be emphasized. Career opportunities in the housing and interior design fields will be introduced.

FAMILY RELATIONS

11th – 12th Grade

Credit – 1/2

Semester

This course encourages students to develop meaningful relationships while focusing on the family unit. This course emphasizes balancing family and work as each member's role changes over time while adapting to life's challenges and how to utilize community resources for the family.

INDEPENDENT LIVING

12th Grade

Credit – 1/2

Semester

This course is designed for seniors to prepare them to live independently. Students will learn money management skills as well as credit card use, checking account procedures and consumer skills to aid them in their lives. They will also cover clothing selection, care and maintenance, as well as nutrition and some basic food preparation skills.

INDUSTRIAL TECHNOLOGY:

INTRODUCTION TO INDUSTRIAL TECHNOLOGY

9th – 12th grade

Credit – 1

Full Year

Students will have the opportunity to explore the four main areas of Technology. This class will offer insight in Woodworking, Metalworking, Small Engines, and Electricity. Throughout the course students will learn about the machines and procedures a person needs in these main areas of technology. Introduction to Industrial Technology will be a prerequisite class before entering into any other advanced classes. Students will be expected to do book work and spend time in the class before going into the lab for hand on projects. Class time will be 75% and shop time will be 25% for each subject change. The class will be offered for the year, but will change its concept at the semester. Students will be expected to do book work and spend time in the classroom before working on a project in the lab.

ADVANCED WOODS

10th – 12th grade

Credit – 1

Full Year

After completing Introduction to Industrial Technology, students will have the opportunity to further their knowledge in wood working. This course will delve further into drafting, wood structures and furniture-building. Students will gain knowledge they will need in the future for carpentry or furniture building. This course is designed to prepare students to take carpentry or cabinet-building courses at CTC. Advanced Woods will consist of 10% class time and 90% lab time similar to other CTC programs.

Prerequisite: Introduction to Industrial Technology or teacher recommendation

ADVANCED WOODS II/III

11th – 12th Grade

Credit – 1

Year

After taking Advanced Woods students will have the opportunity to further their knowledge in wood working. This class will go further in depth about drafting, wood structure and furniture building. Students will gain the knowledge they need in the future for carpentry or furniture building. This class is designed so students can see if they would like to take carpentry or cabinet building at the CTC. This class will be offered yearly, with 10% class time and 90% lab time, similar to the CTC programs.

Prerequisite: Advanced Woods with a B- and teacher recommendation.

ADVANCED METALS

10th – 12th grade

Credit – 1

Full Year

After completing Introduction to Industrial Technology, students will have the opportunity to further their knowledge in metal working. This course will delve further into drafting, metal structures and fabrication. Students will gain knowledge they will need in the future for welding or fabrication. This course is designed to prepare students to take other welding or metal-fabricating courses at CTC. Advanced Metals will consist of 10% class time and 90% lab time similar to other CTC programs.

Prerequisite: Introduction to Industrial Technology or teacher recommendation

ADVANCED METALS II/III

10th – 12th grade

Credit – 1

Full Year

After taking Advanced Metals students will have the opportunity to further their knowledge in metal working. This class will go further in depth about drafting, metal structures and fabrication building. Students will gain the knowledge they need in the future for welding or fabrication. This class is designed so students can see if they would like to take Welding or other fabricating related classes at the CTC. This class will be offered yearly, with 10% class time and 90% lab time, similar to the CTC programs.

Prerequisite: Advanced Metals with a B- and teacher recommendation

SMALL ENGINES

9th – 12th grade

Credit – 1/2

Semester

After completing 8th grade Industrial Technology, students will have the opportunity to further their knowledge of small engines. This course will delve further into the workings of four-stroke and two-stroke small engines. Students will also gain knowledge in small engine repair. This course is designed also for students to take other auto mechanics courses at CTC. Small Engines will consist of 10% class time and 90% lab time similar to other CTC programs.

Prerequisite: 8th grade Industrial Technology or Introduction to Industrial Technology or teacher recommendation

INDUSTRIAL EXPLORATION

9th – 12th grade

Credit – 1/2

Semester

This course is designed for students who wish to explore a career in industrial technology. This class will offer insight into several technical areas including: carpentry, HVAC, metal working, auto mechanics, auto body repair, and electricity. Throughout the course, students will be exposed to several industry related career paths using a variety of “hands-on” methods.

One Hour Courses Offered at CTC

BASIC CODING AND PROGRAMMING

9th – 10th grade

Credit – 1/2

Semester – 1 or 2

This course is a fundamental course that covers topics such as physical computing, TLMN/CSS, and block-based programming. This course empowers students to develop websites, design apps, and build games.

PRINCIPLES OF CODING AND PROGRAMMING

9th – 10th grade

Credit – 1/2

Semester – 1 or 2

This course introduces the programming language such as JavaScript. The course covers a broad range of foundational topics such as programming algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing.

INVESTMENT, RISK MANAGEMENT AND ETHICS

12th grade

Credit – 1/2

Semester – 2

This course is designed to provide students with the fundamental knowledge needed for investment, risk management and ethics. Topics covered in this course will include learning the advantages and disadvantages of investments (stocks, bonds, mutual funds), owning and operating a business, securing a loan, determining insurance needs and demonstrating ethical business behavior.

INTRODUCTION TO MARKETING

9th – 12th Grade

Credit – 1/2

Semester

This course is designed to help students explore the basic concepts and practices of marketing within our society. Students will gain an understanding of the many elements of marketing, including the development, pricing, promotion, and distribution of various types of goods and services. This is an ideal course for those students who have interest in marketing and management.

MARKETING TECHNIQUES

9th – 12th Grade

Credit – 1/2

Semester

This course is designed to integrate all forms of communication used in the selling process. Students will gain an understanding of the importance of selling and how the effective use of advertising and promotion will aid in the selling process.

Preferred Prerequisite: Intro to Marketing

SPORTS, ENTERTAINMENT AND RECREATION MARKETING I

10th – 12th Grade

Credit – 1/2

Semester

This course is designed to help students learn the basic functions of marketing within our society and how those functions are applied to sports and entertainment. Students will gain an understanding of the many elements of marketing, including the development, pricing, promotion, and distribution of various types of goods and services. This is an ideal course for those students who have a career interest in sports marketing or management

Prerequisite: Intro to Marketing, or instructor approval

INTRODUCTION TO LANDSCAPE/HORTICULTURE

9th – 12th Grade

Credit – ½

Fall Semester

This course is introduction to landscape and will provide students with an overview of horticulture concepts. Various concepts will be taught, including: perennials, annuals, landscape structures, water features, containers, residential and commercial spaces, indoor gardening, herbs/medicinal plants, bulbs, vines and art in the garden.

HISTORY OF LANDSCAPE DESIGN

9th – 12th Grade

Credit – ½

Spring Semester

This course is designed to provide the student with a historic study of landscape design, themes and culture. The course will review landscape design history and how it has greatly influenced today's design process and design solutions.

Preferred Prerequisite: Intro to Landscape/Horticulture

GREENHOUSE MANAGEMENT I

10th – 12th Grade

Credit – ½

Semester

This course is a practical, hands-on study of greenhouse management. During the class, students will study the physical aspects of greenhouse maintenance and plant management associated with nursery crops. Students will gain an understanding of the skills required to maintain greenhouse and nursery facilities.

GREENHOUSE MANAGEMENT II

10th – 12th Grade

Credit – ½

Semester

This course will continue the hands-on study of greenhouse management in more detail. Students will organize, schedule, and implement skills and practices used in the production and merchandising of a greenhouse or nursery crop.

Prerequisite: Greenhouse Management I

BASIC CONCEPTS OF LANDSCAPE DESIGN

10th – 12th Grade

Credit – 1

Year

This course is a study of all aspects of landscape design concepts, including: drafting, measuring, topographical features, plant knowledge and identification, rough sketching and design planning. The proper and effective use of plant and landscape materials in developing designs and graphics for both formal and informal landscapes will be emphasized.

PLANT SCIENCE GENERAL

9th – 12th Grade

Credit – 1

Year

This course is designed to cover the importance of plants, classification and identification of plants, plant growth factors, weeds, diseases, insects, germination, photosynthesis, respiration, sexual and asexual reproduction, cloning, and plant genetics. Students will be given the opportunity to have hands on experiences to enhance the understanding of how plants reproduce and grow. During the fall semester the students will be working with Woody Plants (trees and shrubs). During the spring semester the students will be working with annuals, tropical plants, and perennials. These will be observed in their growing environment throughout each semester and analyzed at the end of each semester. This is an ideal course for students considering the Landscape Horticulture career education program.

GRAPHIC DESIGN AND SCREEN PRINTING

9th – 12th Grade

Credit – 1/2

Semester

This course is designed to provide students an understanding of Adobe Illustrator and the screen printing process. Adobe Illustrator is computer software that enable users to design and edit vector graphic images. In this class, students will design and prepare camera ready artwork for reproduction using the screen printing process on a wide variety of materials.

Prerequisites: Computer Applications with a grade of C- or higher

PRE-ENGINEERING BY PROJECT LEAD THE WAY:

U.S. industry is looking to America's schools to help solve the country's high-tech staffing crisis. **Project Lead the Way** is a pre-engineering curricula, software, and teacher training program that can help schools forge new generations of engineers.

Requirements for Pre-Engineering courses – students must be taking a college preparatory sequence of math courses (at least Algebra 1 or Algebra B in Grade 9, Geometry in Grade 10, and Algebra II in Grade 11) and be interested in the field of engineering.

The course sequence for PLTW is:

1. Intro to Engineering Design
2. Principles of Engineering
3. Civil Engineering and Architecture
4. Computer Integrated Manufacturing
5. Engineering Design and Development

****Students who are considering enrollment in more than one pre-engineering class should consider taking the three hour block at CTC (see page 83)**

INTRO TO ENGINEERING DESIGN

9th – 12th Grade

Credit – 1

Year

In this course students use a problem-solving model to improve existing products and invent new ones. They learn how to apply this model to solve problems in and out of the classroom. Using sophisticated three-dimensional modeling software, students communicate the details of the products. Emphasis is placed on analyzing potential solutions and communicating ideas to others.

Prerequisite: Students must be enrolled in a college preparatory sequence of math courses.

HONORS PRINCIPLES OF ENGINEERING

9th – 12th Grade

Credit – 1

Year

This introductory course explores the wide variety of careers in engineering and technology and covers various technology systems and manufacturing processes. Using activities, projects, and problems, students learn firsthand how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit people. The course also addresses concerns about social and political consequences and technological change. This course will count as a science credit

Prerequisite: Students must be enrolled in a college preparatory sequence of math courses.

CIVIL ENGINEERING AND ARCHITECTURE

10th – 12th Grade

Credit – 1

Year

Students will study the design and construction of residential and commercial building projects. It is an introduction to the varied factors involved in building and site design and construction, including building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry. Students will be exposed to the design and construction practices of residential and commercial building projects, design teams and teamwork, communication methods, building codes and ordinances, engineering design calculations, and technical documentation. Students will use industry standard 3D architectural modeling software to facilitate site and building design and technical documentation. As the course progresses and the complexity of the design problems increase, students will learn more advanced computer modeling skills as they become more independent in their learning, more professional in their collaboration and communication, and more experienced in problem solving and design.

Prerequisite: Honors Principles of Engineering and Introduction to Engineering Design with a grade of C- or better and the student must be enrolled in a college preparatory sequence of math courses.

COMPUTER INTEGRATED MANUFACTURING

10th - 12th Grade

Credit – 1

Year

Students learn concepts of robotics and automated manufacturing by creating three-dimensional designs using computer modeling software. After designs are electronically created, students actually produce models of their designs through the use of CNC equipment and robotics.

Prerequisite: Honors Principles of Engineering and Introduction to Engineering with a grade of C- or better and the students must be enrolled in a college preparatory sequence of math courses.

ENGINEERING DESIGN AND DEVELOPMENT

11th – 12th Grade

Credit – 1

Year

Teams of students, guided by community mentors, work together to research, design, and construct solutions to engineering problems.

Prerequisite: Introduction to Engineering, Honors Principles of Engineering and Computer Integrated Manufacturing or Civil Engineering and Architecture with a grade of C- or better or with teacher approval and the student must be enrolled in a college preparatory sequence of math courses.

Students enrolled in any of the Pre-Engineering courses may be eligible to receive dual college credit at numerous universities across the nation, including Missouri S & T.

BEGINNING HEALTH CARE CAREER EXPLORATION

9th – 12th Grade

Credit – 1/2

Semester

This course will look at basic health principles, the history and evolution of medicine, medical terminology, and an-introduction to basic human anatomy and physiology. Students will also explore many health professions and be introduced to guest speakers in many different health fields that may include nursing, veterinary science, respiratory therapy, dental sports medicine, physical therapy, radiology, ophthalmology, medical secretarial/transcription, and more. Students interested in a career in healthcare will enjoy exploring the options in this class.

ADVANCED HEALTH CARE CAREER EXPLORATION

9th – 12th Grade

Credit – 1/2

Semester

This course is a continuation of the Introduction to Health Care Career Exploration and is designed for students who plan to pursue a health care career after high school. This class is composed of advanced studies in health principles and the various career opportunities in the health care field. In addition, students will explore post-secondary health care educational programs and the requirements needed to enter such programs.

Prerequisite: Beginning Health Care Career Exploration

CAREER EDUCATION EXPLORATION

9th – 10th Grade

Credit – 1/2

Semester

Students in this program will explore three skill-training areas so that their choice of future training will be based upon experience and evaluation. Students are given the opportunity to experience career education areas they

may be considering for training during their junior and senior years. During the semester, students will rotate through three areas, spending six weeks in each. Programs for exploration may include: HVAC, Construction Technology, Design and Wood Manufacturing, Auto Tech, Auto Collision, Culinary Arts, Electrical Trades, and Electronics.

CAPE GIRARDEAU CAREER & TECHNOLOGY CENTER

All Courses are Elective Credit

Career Path: Arts and Communications; Business, Management and Technology; Health Services; Human Services; Industrial and Engineering Technology; Natural Resources

In order to be eligible to enroll in a three hour course at the Career and Technology Center (CTC), students must complete an application process, including signatures from their parent/guardian and school counselor. To be considered for acceptance to the career center, students must have both a good attendance and discipline history with Cape Central High School. Due to the number of students who request enrollment at CTC, students with more than ten absences or two discipline referrals may be unable to attend.

Mineral Area College (MAC) Dual Credit Program –

Students who enter articulated career and technical programs will have the opportunity to earn from 3 to 36 semester hours of college credit through Mineral Area College of Park Hills, MO, while earning high school graduation credits. College hours may apply toward an Associate of Applied Science degree. More information regarding the MAC Dual Credit Program will be provided to students upon enrollment.

Programs with articulation agreements include: Automotive Collision, Automotive Technology, Childcare, Computer Technology, Construction Technology, Digital Media Production, Electrical Trades, Graphic Arts, HVAC/R, Industrial Systems Technology, Landscape/Horticulture, Marketing, Machine Tool, Pre-Engineering – Project Lead The Way, Welding, Wood Design and Manufacturing.

Three Rivers College (TRC) – Articulated Credit

Students who enter articulated career and technical programs will have the opportunity to earn from 25 to 36 semester hours of college credit through Three Rivers College in Poplar Bluff, MO, while earning high school graduation credits. College hours may apply toward an Associate of Applied Science degree in diversified Technology. More information regarding the TRC articulated credit will be provided to students upon enrollment.

Programs with articulation agreements include: Automotive Collision, Automotive Technology, computer Technology, Construction Technology, Culinary Arts, Digital Media, Graphic Arts, HVAC/R, Machine Tool, and Welding.

The credits earned through the articulated program may be applied toward an Associate of Applied Science degree. The general education requirements may be completed through the Cape College Center (CCC), located within the CTC building.

The following high school programs are offered at the Cape Girardeau Career and Technology Center:

Course Title: Auto Collision Technology I CREDIT: 3.0

2 semesters – 3 periods

Community college credit available

Grades Eligible: 11, 12

Prerequisites: None

Description: This course provides training in auto collision repair; straightening sheet metal with hand and power tools, dent filling with plastics, sanding and masking techniques, and windshield repair/replacement. Basic instruction in mig welding is given for panel repair. Spray painting is primarily with base coat/clear coat paint system. Students will complete projects on late model vehicles. Written competencies will require 3 days in classroom per week for the first semester. Second semester will be devoted to shop performance.

Course Title: Auto Collision Technology II CREDIT: 3.0
2 semesters – 3 periods **Community college credit available**
Grades Eligible: 12
Prerequisites: Auto Collision Tech I and Teacher Approval
Description: This course provides advanced training in all phases of the occupation including air conditioning, estimation, spraying urethane finishes of all types, color blending, and paint matching. Students will complete projects on a variety of vehicles.

Course Title: Automotive Technology I..... CREDIT: 3.0
2 semesters – 3 periods **Community college credit available**
Grades Eligible: 11, 12
Prerequisites: None
Description: This is an introduction to shop safety, automotive maintenance, power plants, electrical braking, steering, suspension system, maintenance and light repair, and Skills USA. Theory, diagnosis and computerized systems will be emphasized in all levels of training. In-depth book work along with theory and shop work is expected. Students must have good communication and math skills. Much emphasis will be placed on **Automotive Service Excellence (ASE)** guidelines. Students must have a valid driver's license and a good driving record.

Course Title: Automotive Technology II CREDIT: 3.0
2 semesters – 3 periods **Community college credit available**
Grades Eligible: 12
Prerequisites: Automotive Technology 1 and instructor approval
Description: This class is an introduction to brakes, advanced electrical, emission and fuel control, heating and air condition, auto tire and wheel alignment, electrical test equipment, maintenance and light repair, and prep for employment. In-depth theory and shop work is expected. Much emphasis will be placed on **Automotive Service Excellence (ASE)** guidelines. Students must have good communication and math skills, a valid driver's license, and a good driving record.

Course Title: Basic Flight..... CREDIT: 3.0
2 Semesters- 3 periods (PM only)
Grades Eligible: 11, 12 (one year only- seniors will be given preference)
Prerequisites: Algebra I
Description: This course is designed to provide the initial phases of ground and flight training prescribed by Federal Aviation Regulations (FARs) part 61 for the private pilot certification level. Along with classroom training students may log a possible 5 hours of aircraft practical flight instruction and possible 10 hours of flight observation. Upon successful completion of the course, students are eligible to take the FAA Private Pilot written exam and pursue student pilot certification status.

Course Title: Child Care Careers..... CREDIT: 3.0
2 Semesters – 3 periods **Community college credit available**
Grade Eligible: 12
Prerequisites: Child Development or instructor approval
Description: This class is a three hour block in which students begin to learn how to become an Early Childhood Teacher. In this course students learn about child development theories and health and safety techniques as well as how to develop age-appropriate learning activities for children ages 3-5. The students will also learn positive discipline techniques needed to successfully manage a classroom. Students receive experience writing lesson plans, implementing those plans, conducting circle time, and managing the classroom. Students will learn how to observe and record student behavior. They will also build a positive and productive relationship with families and maintain a commitment to professionalism. Students will begin a professional portfolio necessary for national certification. They will earn 120 clock hours of classroom training,

including 10 hours each of the 8 CDS subcategories, and 480 clock hours of interaction with children that is required for the Child Development Associate (CDA) examination. This is a national certification recognized in 48 states and opens employment doors in State-licensed daycares and preschools as well as Head Start programs. Dual credit is also available for this class through Southeast Missouri State University. Those credits would go toward an Early Childhood Degree or could be used as elective credits.

Course Title: Computer Coding and Programming I CREDIT: 3.0

2 semesters – 3 periods – (AM Only)

Community college credit available

Grades Eligible: 11, 12

Prerequisites: Computer Applications and Algebra I are required

Description: This course introduces students to coding fundamentals through an approachable, block-based programming language where they will have early success in creating usable apps. As students sharpen their computational thinking skills, they will transition to programming environments that reinforce coding fundamentals by displaying block programming and text based programming style side-by-side. Finally, students will learn the power of text-based programming as they are introduced to the Python programming language.

Course Title: Computer Coding and Programming II CREDIT: 3.0

2 semesters – 3 periods – (AM Only)

Community college credit available

Grades Eligible: 12

Prerequisites: Computer Coding and Programming I with a minimum of a C- and instructor approval

Description: This course is a continuation of Computer Coding and Programming I. Once Computer Coding and Programming I is established and running, internships will be implemented into the year two program. In addition, to internships, students will also advance upon their year one studies.

Course Title: Computer Networking & Security I CREDIT: 3.0

2 semesters – 3 periods – (AM Only)

Community college credit available

Grades Eligible: 11, 12

Prerequisites: Keyboarding, Computer Applications, Algebra I and English with a grade of C and above are required. Strong reading skills will be necessary.

Description: Students will study the Cisco online curriculum, “*IT Essentials*,” a comprehensive overview of computer hardware and software with an introduction to advance concepts and customer service skills during semester one. Students will develop skills necessary to solve common problems, maintain, upgrade, and repair computer hardware and software, along with securing, designing and building small to medium sized networks.

During semester two, students will study the *Cisco CCNA Routing and Switching* curriculum, which will include the “*Introduction to Network*” course. The Intro to Networking course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. Students will be about to build and secure simple LANs, perform basic configuration for routers and switches, and implement IP addressing schemes. Motivated students who wish to do additional self-study and review will be encouraged to take the CompTIA A+/Network+ Certification exams.

Course Title: Computer Networking & Security II CREDIT: 3.0

2 semesters – 3 periods – (PM Only)

Community college credit available

Grades Eligible: 12

Prerequisites: Computer Networking & Security I with a minimum of C- and instructor approval

Description: Through participation in the Cisco Networking Academy, second-year students will learn advanced computer networking and security skills. Students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single area and multi- area OSPF, EIGRP, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement a virtual private network (VPN) and a wireless small-to-medium sized LAN network. Motivated students who wish to do additional self-study and review will be encouraged to take the Cisco CCENT and CCNA Certification exams.

Course Title: Construction Technology I CREDIT: 3.0

2 semesters – 3 periods

Community college credit available

Grades Eligible: 11, 12

Prerequisites: None

Description: Students will receive instruction and hands-on experience in hand and power tool safety, site prep and layout, footing and foundation forming, floor and wall framing, sheathing, window and exterior door installation and exterior wall finishes. The students will participate in various projects around the school district. Besides the hands on training, there will be extensive classroom work including math and communication arts. The students will also spend time being tested for basic job skills.

Course Title: Construction Technology II CREDIT: 3.0

2 semesters – 3 periods

Community college credit available

Grades Eligible: 12

Prerequisites: Construction Technology I and instructor approval

Description: Students will cover areas of residential interior finish carpentry. This will include energy conservation, insulation, drywall, interior wall and ceiling finishes, interior doors and trim, flooring, cabinet installation, fixture installation, residential wiring and plumbing. The students will participate in various projects around the school district. Besides the hands on training, there will be extensive classroom work including math and communication arts. Students will also spend time being tested for basic job skills. Students will have the opportunity to earn the OSHA 10 card.

Course Title: Culinary Arts I..... CREDIT: 3.0

2 semesters – 3 periods

Community college credit available

Grades Eligible: 11, 12

Prerequisites: Basic Food Class

Description: This program of study is the basic principles of the foodservice industry. Food safety, sanitation, personal safety, food handling skills, knife skills, nutrition, customer service and cooking techniques highlight this program. Students will learn what the nation's largest employer expects them to know and the wide range of opportunities available in the foodservice industry. Hands-on experience is an integral part of the program featuring working lab sessions on a large variety of kitchen equipment. Students will learn tasks involved in front of house operations, back of house operations and receive their food handler's card from the local regulatory agency.

Course Title: Culinary Arts II CREDIT: 3.0

2 semesters – 3 periods

Community college credit available

Grades Eligible: 12

Prerequisites: Culinary Arts I and instructor approval

Description: The second year program provides the student with additional training in the specific roles of the food service industry. The course is designed for students to develop additional knowledge to prepare for careers in the food service industry. History and depth of knowledge of the industry allows the student to understand the concept of proven and varied cooking techniques used worldwide. Students will learn about food costing, menu planning and profitability. Students meeting the qualification and with the recommendation of the instructor will have the opportunity to compete in culinary competitions at the state and national level. Students will take lead roles in the operation of our campus restaurant and further their experience in the real world food service operations. Second year students will have the opportunity to become ServSafe Certified and earn certification from the National Restaurant Association ProStart Program.

Course Title: Digital Media Production..... CREDIT: 3.0

2 semesters – 3 periods

Community college credit available

Grades Eligible: 11, 12

Prerequisites: Computer Applications 1 with a grade of “C+” or above

Description: This exciting program will introduce and prepare students for the field of broadcasting, digital video, and digital film production. Emphasis will be placed on hand-on access to the high-tech gear and state-of-the-art software, digital video cameras, professional lighting, audio equipment, and more. Students will also learn computer-based editing with Adobe Premier and special techniques with After Effects while working on projects such as: TV commercials, PSAs, news, music videos, sports, and short films. Digital Media Production gives you the skills, tools, and techniques to prepare for an exciting future in media, movies, and communications.

Course Title: Advanced Digital Media Production CREDIT: 3.0

2 semesters – 3 periods

Community college credit available

Grades Eligible: 12

Prerequisites: Digital Media Production 1 and instructor approval

Description: This challenging program will build upon the basics of digital media, moving into advanced software and techniques. New genres of production will be explored including news production, film shorts, and industrial video production. Successful completion of this program could qualify students for entry-level employment at television stations, video production companies, advertising agencies, and even film production.

Course Title: Electrical Trades I CREDIT: 3.0

2 semesters – 3 periods

Community college credit available

Grades Eligible: 11, 12

Prerequisites: Algebra A

Description: This course will provide training in electrical trades. Students will learn how to interpret and apply designs and drawings to the electrical field. Instruction will include constructing, calculating, and installing residential and circuits and applicable codes. This course will prepare students for entry level employment as an electrician and in other related areas. In the first year, residential and commercial wiring are taught. Residential includes house wiring, NEC code calculations and blueprint reading. Commercial includes conduit bending and transformers.

Course Title: Electrical Trades II..... CREDIT: 3.0

2 semesters – 3 periods

Community college credit available

Grades Eligible: 12

Prerequisites: Electrical Trades I and instructor approval

Description: Students entering the second year will focus on industrial motor controls and PLC (Programmable Logic Controller). Students will learn how to install, troubleshoot, and maintain motor controls and variable frequency drives. Upon completion of the second year, the student will be able to read and write Programmable Logix. The different types of PLC's are: Micrologix 1100, and Compact Logix.

Course Title: Emergency Medical Technician-Basic (EMT-B)..... CREDIT: 3.0

2 semesters – 3 periods – (AM only)

Grades Eligible: 12 (one year only)

Prerequisites: Health with a C or better, cumulative GPA of a C or better. Candidates will go through an interview process.

Description: Emergency Medical Technician (EMT-B) is a study of basic emergency care. Students will learn the history of Emergency Medical Service (EMS), as well as proper care of the sick and injured patient. The program follows the Department of Transportation's National Standard Curriculum for the EMT-B. Upon completion, students will be eligible to take the National Registry Certification Exam. The Curriculum includes how to properly assess patients, cardiopulmonary resuscitation, management of medical conditions and traumatic injuries, management of obstetrical emergencies, caring for infant and pediatric emergencies and ambulance operations. Also included in the program will be a variety of specialized areas of training, including: Emergency Vehicle Operation driving course, vehicle extrication and hazardous material

training. The program does include classroom and lab studies as well as clinical rotations in the hospital emergency departments, as well as at area ambulance services.

Students will be required to purchase the following throughout the school year: polo uniform shirt, uniform pants, uniform boots, uniform belt, class t-shirt, stethoscope, flu shot, certification exam fees. Optional purchases: uniform hat, pullover.

**This course will cost the student approximately \$230.*

Course Title: Graphic Arts I..... CREDIT: 3.0

2 semesters – 3 periods

Community college credit available

Grades Eligible: 11, 12

Prerequisites: Keyboarding

Description: Graphic Arts I is designed to give students the opportunity to experience the many facets of the Graphic Design/Offset Printing industry through classroom and hands-on techniques. Students will utilize Adobe Photoshop C6, Adobe Illustrator C6, Adobe InDesign C6, and will be given the opportunity to design and print products used by local school districts, including programs, fliers, brochures, stationery, envelopes, and much more. In addition to paper products, students will be given the opportunity to learn the basics of screen printing including but not limited to creating the image, setting up the equipment, and printing the product.

Course Title: Graphic Arts II CREDIT: 3.0

2 semesters – 3 periods

Community college credit available

Grades Eligible: 12

Prerequisites: Graphic Arts I and instructor approval

Description: Students will have the opportunity to experience the many facets of the Graphic Design/Offset Printing industry through classroom and hands-on techniques. Students will continue to expand on their knowledge of Adobe Photoshop C6, Adobe Illustrator C6, and Adobe InDesign C6 to design and print products used by local school districts, including programs, fliers, brochures, stationery, envelopes, and more. In addition to paper products, students will be challenged to expand their knowledge of screen printing to create more intricate images, and to master the process for setting up the equipment for multi-color printing jobs. Students will be given experience in some managerial aspects of the printing process while working with first year students on printing and screen printing projects.

Course Title: Health Occupations CREDIT: 3.0

2 semesters – 3 periods

Community college credit available*

Grades Eligible: 12

Prerequisites: None

Description: Students will learn medical terminology, anatomy, and basic bedside care skills. You will learn to give daily care to a patient (bathe, dress, feed, bathroom/toileting and assist with activities of daily living). The first semester all students learn the basic skills that all health care workers need to know. The second semester students will travel to nursing facilities for hands on training and will continue training to become a Certified Nurse Assistant (CNA). Students will be given the opportunity to qualify to take the Missouri Nurse Assistant Certification Test. Upon successful completion of all class requirements, eligible students may take the state certification examination. Students completing specialized training must provide own transportation to work sites. Pharmacy Aide requires additional expenses to be paid by student. *For a reduced fee, Health Occupations students may also receive three hours of dual enrollment credit in Medical Terminology through Mineral Area College.

Students will be required to purchase the following throughout the school year: watch with second hand, scrub uniform set, leather type tennis shoes, socks, short/long sleeve solid white, grey, or black t-shirt, TB test, flu shot, Family Care Safety Registration, CPR/First Aid cards, food items for nutrition/feeding class exercise, CNA certificate, wallet card, and pin.

**This course will cost the student approximately \$150.*

Course Title: HVAC-R I..... CREDIT: 3.0
2 semesters – 3 periods – (AM Only) Community college credit available
Grades Eligible: 11, 12
Prerequisites: None
Description: Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC-R) field is part of a growing technical-trades industry. This course is designed to provide the student with a fundamental understanding and working knowledge in the fields of heating, ventilation, air conditioning, and refrigeration. Students will study all phases of HVAC-R applications, fundamental circuitry/schematics reading, and troubleshooting electrical, mechanical, and refrigeration systems. Students will be given the opportunity to take the EPA certification testing on site (at an additional fee) as well as testing for field certification in residential, light commercial, and heat pump application.

Course Title: Advanced HVAC-R II..... CREDIT: 3.0
2 semesters – 3 periods – (AM Only) Community college credit available
Grades Eligible: 12
Prerequisites: HVAC-R 1 and instructor approval
Description: The second year student will train on light commercial systems applications, in-depth trouble shooting of circuitry, mechanical, and refrigeration systems. While in training, students will be given the opportunity to learn the practical application of recovery equipment and other service tools specific to the trade. Students will also be allowed to choose specific areas of training, such as building energy management, sheet-metal design and fabrications, estimating and layout. Time will also be spent preparing for industry certification.

Course Title: Landscape/Horticulture I..... CREDIT: 3.0
2 semesters – 3 periods Community college credit available
Grades Eligible: 11, 12
Prerequisites: None
Description: This course is designed to provide knowledge and practical experience in the care and identification of ornamental plants (flowers, trees, and shrubs). Activities include starting plants from seeds and vegetative plant parts, green house operation, drawing landscape plans, floral design, pruning practices, and lawn establishment and care.

Course Title: Landscape/Horticulture II CREDIT: 3.0
2 semesters – 3 periods Community college credit available
Grades Eligible: 12
Prerequisites: Landscape Horticulture 1 and instructor approval
Description: Students may specialize in areas such as greenhouse operations, nursery management, landscape maintenance, and landscape installations. Those students who maintain a “C” average or better and a good attendance record may be released for work/study program in the fourth quarter of their second year.

Course Title: Machine Tool Technology I CREDIT: 3.0
2 semesters – 3 periods – (AM Only) Community college credit available
Grades Eligible: 11, 12
Prerequisites: Algebra I or equivalent
Description: This course is designed to prepare students for entry-level manufacturing jobs as a machinist. Students will learn to operate a power saw, drill press, lathe, mill, and grinder. Fabrication and resurfacing of cutting tools will be taught. In addition, students will interpret designs, drawings, and specifications and analyze quality control data.

Course Title: Machine Tool Technology II CREDIT: 3.0

2 semesters – 3 periods – (AM Only) Community college credit available

Grades Eligible: 12

Prerequisites: Machine Tool Tech. I and instructor approval

Description: This course is a continuation of Machine Tool Technology I. Students will also work with computerized numerical control (CNC) machine tools and Electric Discharge Machine operation. Students in the second semester of this course may have the opportunity to complete an approved internship.

Course Title: Marketing I CREDIT: 3.0

2 semesters – 3 periods – (AM Only) Community college credit available

Grades Eligible: 11, 12

Prerequisites: None

Description: This course is designed to help students learn the basic concepts and practices of retailing within our society. Students will gain an in-depth understanding of many elements of marketing, business management, and selling as it relates to retailing and retail businesses. This course will explore topics ranging from selling, cashiering, customer relations, pricing and promotion. The student store will be used as a learning lab, and students will rotate through various positions for experiential learning before testing on course standards. This is an ideal course for those students who have a career interest in marketing or management, management or retailing.

Course Title: Marketing II..... CREDIT: 3.0

2 semesters – 3 periods – (PM Only) Community college credit available

Grades Eligible: 12

Prerequisites: Marketing 1 or instructor approval

Description: This course is designed to help students learn the basic concepts and practices of marketing within our society. Students will gain in-depth understanding of the many elements of marketing, business management, and selling. This is an ideal course for those students who have a career interest in marketing or management. Students enrolled in this course may participate in the Marketing Internship program for paid, on-the-job training in a marketing occupation. Students may be released up to two periods from the regular school day to complete the on-the-job portion of this class. Those students working a minimum of 180 per semester (10 hours a week) will be released one period, and those working 360 hours per semester (20 hours a week) will be released two periods. Participation in the Internship is not automatic. Instructor must approve the training site during the first week of class.

Course Title: Practical Nursing..... CREDIT: 3.0

2 semesters – 3 periods

Grades Eligible – 12

Prerequisites: cumulative overall GPA of B or better; English I, II, III; Algebra I; Biology; successful completion of the ATI-TEAS test; successful completion of extensive application and interview process; remarkable attendance and discipline history

Description: Do you know that nursing is the career path for you? Get a head start with your career while still in high school. Only a few nursing schools across the nation offer an educational opportunity to enter the field of nursing as high school seniors. The practical nursing program at the Cape Girardeau Career & Technology Center provides a secondary/post-secondary track where students complete the first session of classes during a 3-hour block at the CTC during their senior year. They return in August after graduating high school and complete the remainder of the classes and graduate from the practical nursing program the following May.

Why start nursing education now instead of after high school?

Admission into nursing programs is competitive. Many require completion of pre-requisite college courses with a certain GPA. Some have 2-3 year wait lists to be admitted. Practical nursing education has both classroom and hand-on clinical experience in a student-friendly, small-group environment. Tuition for the senior year is paid by the sending school. Financial aid, including the A+ scholarship, is available for the post-secondary year. Many of our graduates work as LPN/s while they further their education to reach their nursing career goals.

Students will need to purchase the following throughout the school year: watch with second hand, stethoscope, bandage scissors, pen light, white lab coat, uniforms, all white nurses shoes,

**This course will cost the student approximately \$250.*

Course Title: Pre-Engineering Block I by Project Lead the Way CREDIT: 3.0

2 semesters – 3 periods – (AM Only)

College credit available

Grades Eligible – 11, 12 Grade

Prerequisites - students must be enrolled in or have completed a college preparatory sequence of math courses (at least Algebra 1 or Algebra B in Grade 9, Geometry in Grade 10, and Algebra II in Grade 11) and be interested in the field of engineering

Description: This block will include two Project Lead the Way courses: Intro to Engineering Design and Principles of Engineering. It will be offered during the **morning CTC** block. PLTW is a sequence of courses which, when combined with traditional mathematics and science courses in high school, introduces students to the scope, rigor, discipline and fun of engineering projects prior to entering college.

This block will include:

Intro to Engineering Design – In this course students use a problem-solving model to improve existing products and invent new ones. They learn how to apply this model to solve problems in and out of the classroom. Using sophisticated three-dimensional modeling software, students communicate the details of the products. Emphasis is placed on analyzing potential solutions and communicating ideas to others.

Principles of Engineering - This introductory course explores the wide variety of careers in engineering and technology and covers various technology systems and manufacturing processes. Using activities, projects, and problems, students learn firsthand how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit people. The course also addresses concerns about social and political consequences and technological change.

Course Title: Pre-Engineering Block II by Project Lead The Way CREDIT: 3.0

2 semesters – 3 periods (PM Only)

College credit available

Grades Eligible – 12 Grade

Prerequisites – completion of Pre-Engineering Block I and instructor approval

Pre-Engineering Block II is offered during the afternoon CTC block. This course will continue to offer students project-based, hands-on experience to teach students the key elements and skills of engineering and technology-based careers by immersing them in rigorous engineering problems.

This block will include:

Computer Integrated Manufacturing - Students learn concepts of robotics and automated manufacturing by creating three-dimensional designs using computer modeling software. After designs are electronically created, students actually produce models of their designs through the use of CNC equipment and robotics.

Civil Engineering and Architecture – Students will study the design and construction of residential and commercial building projects. It is an introduction to the varied factors involved in building and site design and construction, including building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry. Students will be exposed to the design and construction practices of residential and commercial building projects, design teams and teamwork, communication methods, building codes and ordinances, engineering design calculations, and technical documentation. Students will use industry standard 3D architectural modeling software to facilitate site and building design and technical documentation. As the course progresses and the complexity of the design problems increase, students will learn more advanced computer modeling skills as they become more independent in their learning, more professional in their collaboration and communication, and more experienced in problem solving and design.

Engineering Design and Development – Teams of students guided by community mentors work together to research, design and construct solutions to engineering problems.

***Students enrolled in any of the Pre-Engineering courses may be eligible to receive dual college credit at numerous universities across the nation, including Missouri S & T.**

Course Title: Unmanned Aircraft Systems (Drones)..... CREDIT: 3.0

2 semesters – 3 periods

Community college credit available

Grades Eligible: 12

Prerequisites: Algebra I and Physical Science

Description: Unmanned Aircraft Systems, or drones, are at the heart of a new and growing field that is projected to explode in the next ten years. Applications in the agriculture, construction, filmmaking, law enforcement, journalism, and surveying industries are just the beginning. This program will prepare students to enter the workforce, or a post-secondary program, by teaching the fundamentals of aerodynamics and flight, the technology and types of unmanned aircraft, the proper operation of fixed wing and multirotor UAVs, FAAA regulations regarding UAV usage, and ethical and legal use of UAVs. Unmanned Aircraft Systems program graduates will have a FAA remote Pilot License and be certified and trained to operate a large variety of UAVs in a commercial environment. Join one of the newest and fastest moving career fields by joining the Unmanned Aircraft Systems program.

Course Title: Welding I CREDIT: 3.0

2 semesters – 3 periods

Community college credit available

Grades Eligible: 11, 12

Prerequisites: None

Description: Students enrolling in Welding I receive approximately 450 hours of intense welding instruction by a certified welding instructor in Oxyacetylene Welding and Cutting, Shielded Metal Arc Welding, Gas Metal Arc Welding and Gas Tungsten Arc Welding based on guidelines set forth by the American Welding Society. This instruction will start students on the path for a successful future in the field of welding.

Course Title: Welding II..... CREDIT: 3.0

2 semesters – 3 periods

Community college credit available

Grades Eligible: 12

Prerequisites: Welding I and instructor approval

Description: Welding II solidifies everything learned in Welding I, provides students with additional welding practice, and allows time for more in-depth training. By demonstrating advanced levels of skill performance, the student can complete Welding II and take multiple welder qualification tests for future employment experience.

EMBEDDED/DUAL CREDIT

Course Title: Embedded Math (Embedded Credit) CREDIT: 1.0

Grades Eligible: 11 or 12

Prerequisites: Enrollment in a CTC career education program

Description: Students enrolled in a career education program may earn 1 credit of math in one academic year or a combination of two academic years. Embedded math requires students to use practical mathematics to solve technical, real-life problems. Students must complete an enrollment form with their counselor in order to be enrolled in the course. This is a competency based course so students must pass their CTC course and embedded math exam to receive credit.

Course Title: Embedded English/Language Arts (Embedded Credit) CREDIT: .5

Grades Eligible: 11, 12

Prerequisites: Enrollment in a CTC career education

Description: Students enrolled in a career education program can earn up to a full English Language Arts credit. Juniors can enroll in the half credit program; seniors can enroll in either the half or full credit program. This technical writing course requires students to complete industry specific writing. The uniqueness of ELA is that the assignments are integrated within the individual program instead of as the traditional stand-alone assignment. Students must complete an enrollment form with their counselor in order to be enrolled in the course. It is suggested the student and counselor ensure that the credit is needed before requesting enrollment. The course runs a full academic year.

Course Title: Technical Mathematics (Dual Credit) CREDIT: 3.0

Grades Eligible: 11 or 12

Community college credit available

Prerequisites: Enrollment in a CTC career education course and an ACT math score of 15-18; or Compass Algebra score of 23-37/ or Compass College Algebra score of 23-30

Description: The technical math course at CTC is offered in conjunction with Mineral Area College. Students enrolled at the career center have the opportunity to gain three hours of college credit through Mineral Area College. Technical math is a dual enrollment course that allows the student to gain college credit while in high school. It is a course that covers a broad range of mathematical concepts from algebra to trigonometry. Students are expected to complete their assignments independent from their career class. Tech Math can be used as one of the two math requirements toward an Associate of Applied Science degree.

SPECIAL PROGRAMS

MISSOURI OPTION PROGRAM

The Missouri Option program is designed for those students in their 4th year of High School who are not finding success in the traditional high school program. Students will be enrolled in one three-hour block HiSet course at the Cape Girardeau Career and Technology Center (CTC) and in one three-hour block course in a CTC vocational course of study of the respective student's choosing. Upon the successful completion of the HiSet Exam, Health, Personal Finance **and** the CTC vocational course, students will be eligible to earn a regular Cape Central High School diploma and to participate in commencement exercises. Interested students should contact the Cape Central High School Guidance Department for complete enrollment details and program expectations.

MISSOURI VIRTUAL INSTRUCTION PROGRAM

The Missouri Department of Elementary and Secondary Education began offering a "virtual school" with the 2007-08 school year. This online service provides K-12 Missouri students equal access to a wide range of coursework. Students who have lost credit due to failed courses, students who are on homebound, and those students with scheduling conflicts within the school day may find this program of benefit. To find out more about this program go to www.dese.mo.gov/movip/.

CENTRAL STUDIES

Central Studies is an online learning lab utilizing Compass learning Odyssey Software. Students enrolled in Central Studies complete units of study which correlate to the same courses and curricula offered in the traditional classroom. The software takes a mastery learning approach as the students work through the material at their own pace. Students are graded using a weighted grade book which includes chapter tests, lesson quizzes, activity quizzes, writing projects, worksheets and class notes. The instructor is available to help students as they have difficulty with content or navigation through the software. Students may only enroll in Central Studies in consultation with their guidance counselor and/or assistant principal.

AFTER SCHOOL CREDIT RECOVERY

After School Credit Recovery is a program housed in the Central Studies classroom beyond the regular school day utilizing Compass Learning Odyssey Software. Students enrolled in After School Credit Recovery complete units of study which correlate to the same courses and curricula offered in the traditional classroom during the academic day. The software takes a mastery learning approach as the students work through the material at their own pace. Students are graded using a weighted grade book which includes chapter tests, lesson quizzes, activity quizzes, writing projects, worksheets and class notes. Faculty proctors are available to help students as they have difficulty with content or with navigation through the software. Students may only enroll in After School Credit Recovery in consultation with their guidance counselor and/or assistant principal.

SPECIAL SERVICES

The Special Services Department provides students with handicapping conditions the opportunity to fulfill their potential through appropriate individualized educational programming. Emphasis upon alternative learning techniques and strategies enable the students who receive special services to experience as much of the regular classroom program as possible to complete course requirements that are relative to their ability levels. Scope and intensity of services are available on a continuum of support services and vary according to the students' special needs.

For more information about this program, please contact Deena Ring, Director of Special Services, at 335-1867.

Cape Central High School
A+ School Participation Agreement

Student's Last Name _____ First Name _____
(please print)

If state funds are available and Cape Central High School maintains its status as a designated A+ School prior to my graduation, I will receive reimbursement for the college expenses determined by the Missouri General Assembly while attending a Missouri public community college, public career/technical school or certain private two-year vocational/technical schools on a full-time basis. This reimbursement will be for the unpaid balance after federal post-secondary financial assistance funds (that do not require repayment) have been applied. It will be available for up to two (2) years of attendance during the 48-month period after my graduation from high school. This is on the condition that I meet the following requirements:

1. Attend an A+ designated high school for three (3) consecutive years prior to high school graduation.
2. Graduate from high school with a non-weighted, cumulative grade point average of 2.5 on a 4.0 scale.
3. Have at least a 95 percent average attendance record for the four-year period.
4. Graduate with fifty (50) documented hours of unpaid tutoring/mentoring approved by the A+ Coordinator.
5. Maintain a record of good citizenship and avoid the unlawful use of drugs and alcohol as defined by the Cape Central High School A+ Schools Program Citizenship Guidelines.
6. For the Class of 2015 or beyond, earn a score of "proficient" or "advanced" on the Algebra I End of Course exam (or other tests as determined by the Missouri Department of Higher Education).
7. Must be a US citizen or a permanent resident.

To maintain eligibility after high school graduation, I understand that I must meet the following requirements:

1. Each year make a documented good faith effort to secure federal post-secondary student financial assistance funds.
2. Enroll and attend on a full-time basis a Missouri public community college, public career/ technical school, or certain private two-year vocational/technical schools.
3. Maintain a grade point average of 2.5 or higher on a 4.0 scale.

I wish to participate in the A+ Schools Program at Cape Central High School.

Student Signature Date Parent/Guardian Signature Date

A+ Coordinator's Signature Date Anticipated Graduation Year

Please return this form to the A+ Coordinator at Cape Central High School.

CTC PROGRAMS OFFERED					
The following programs are offered at the Cape Girardeau CTC. Each Course is for 3 periods per day for both semesters, earning 3 units of high school credit each year. Juniors and seniors are eligible, except where noted.					
Auto Collision Technology *	"> ☐	Electrical Trades *	"> ☐	SENIOR ONLY PROGRAMS:	
Automotive Technology *	☐	Heating, Venting & AC *	☐		
Computer Coding & Programming *	☐	Landscape/Horticulture *	☐	Basic Flight	☐
Computer Networking & Security *	☐	Machine Tool Technology *	☐	Health Occupations	☐
Construction Technology *	☐	Marketing *	☐	Careers in Childcare *	☐
Culinary Arts *	☐	Pre-Engineering by PLTW *	☐	Emergency Medical Technician (EMT-B)	☐
Digital Media *	☐	Welding *	☐	High School Practical Nursing	☐
Graphic Arts *	☐			Unmanned Aerial Systems	☐
Program Desired: _____ Second Choice: _____ (Must fill out 2) Please see your counselor if you plan to graduate early. *College Credit is available for designated courses					
TO BE COMPLETED BY STUDENT					
Why do you want to be in this program?: _____					
What are your plans after high school?: _____					

Parental Consent – I understand and agree with my child's decision to attend the Cape Girardeau Career and Technology Center for the upcoming school year. I understand that he/she will be required to have proof of insurance and that some courses may require additional fees or supplies.

Parent Signature: _____ Date: _____

TO BE COMPLETED BY HOME SCHOOL COUNSELOR	
CUM GPA: _____	Student will be a: ☐ Junior ☐ Senior in the upcoming school year. MOSIS ID#: _____
Number of discipline referrals for the current school year: _____ If more than two, please attach discipline history.	
Number of absences for the current school year: _____ If more than ten, please attach attendance history.	
Career Cluster Inventory Results From Missouri Connections: _____	
IEP NO ☐ YES ☐ Diagnosis: _____ Enroll in Embedded Comm Arts ☐ Math ☐	
Counselors Comments: _____	
Recommending school official's signature: _____	

Notice of Nondiscrimination
The Cape Girardeau Public School System is committed to the concept of equal opportunity for all individuals, regardless of race, color, national origin, sex, or handicap as defined by section 504, PL 93-112, in its employment procedures and in its operation of education programs and activities. The Cape Girardeau Public School System is required by Title IX of the Educational Amendments, Public Law 93-318 not to discriminate on the basis of sex in above mentioned areas. Persons who feel they have been discriminated against in violation of this policy may appeal to the Compliance Official responsible at 301 N. Clark St. Cape Girardeau, MO 63701, telephone (573) 335-1867.

Revised 12/11/17

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CTC Enrollment Form

(Revised 9/24/17)

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Four Year Plan Worksheet

Course	Freshman	Sophomore	Junior	Senior	Required Credits Needed for Graduation
English Language Arts	English I	English II	English III	English Elective (year)	4
Math	Math Credit	Math Credit	Math Credit		3
Social Studies	American History	World History	Government		3
Science	Conceptual Physics	Science Elective	Biology		3
P.E./Health	/PE	/Health			1 ½
Practical Art				Personal Finance (semester)	1
Fine Art					1
Electives					7.5
Total					24

Summer School 2018

Cape Central High School

Location – Central High School, 1000 South Silver Springs Road

Time – Morning session: 7:45-10:55 / Afternoon session: 11:25-2:35

Transportation – Bus transportation will be provided.

Meals – Breakfast will be provided for those attending the morning session. Lunch will be provided to those attending morning or afternoon sessions.

Attendance – 95% attendance required to earn credit (maximum 2 days absent)

Students who have failed or lost credit in required courses are able to earn (1/2) one-half unit of credit for each course repeated with a maximum of two classes. Credit may be applied to either a first or second semester. Please check the course(s) you would like to take:

- _____ English I
- _____ English II
- _____ English III
- _____ English IV
- _____ Survey of Math
- _____ Introduction to Algebra A
- _____ Algebra A
- _____ Algebra B
- _____ Algebra I
- _____ Algebra II
- _____ Geometry
- _____ Biology
- _____ Conceptual Physics
- _____ Earth Science
- _____ Government
- _____ Physical Education
- _____ Health
- _____ World History
- _____ American History
- _____ Modern American History

If you are taking only one class, do you prefer morning or afternoon? **Morning** / **Afternoon**

Student Name _____ Birthdate _____

Parent / Guardian(s) Name _____

Address _____ Telephone: () -
 Street Apartment

Current grade (Please circle one): 9th 10th 11th 12th