

COOPER HIGH SCHOOL



COURSE GUIDE 2023-2024

TABLE OF CONTENTS

Letter from Principal Wilson.....	p.3
General Information.....	p.4
Graduation Requirements.....	p.7
Course Descriptions	
English.....	p.8
Math.....	p.13
Science.....	p.18
Social Studies.....	p.25
The Arts.....	p.29
World Languages.....	p.33
Health & P.E.....	p.37
Career & Technical Education.....	p.39
CTE Summer Classes.....	p.54
Off Campus Programs.....	p.55
Area Technology Center.....	p.59
Ways to Earn College Credit.....	p.60
Dual Credit Information Sheet.....	p.62
Courses Offered.....	p.63
Four-Year Graduation Plan.....	p.66
Contract for Scheduling.....	p.68
On-Line Scheduling Directions.....	p.70



RANDALL K. COOPER HIGH SCHOOL

2855 Longbranch Road – Union, Kentucky 41091 – 859-384-5040

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Dear Cooper Students:

This Course Guide has been developed in order to assist you in developing your program of studies for the next school year. Used properly, this booklet can assist you in which courses to take to meet graduation requirements, college admissions, occupational objectives, and/or vocational interests.

In planning your educational program, you and your parents should closely review all aspects of this booklet and arrive at a decision that best fits your abilities, interests, and needs. In order to encourage educational growth, students should select a curriculum that is both rigorous and relevant. Education is a cooperative responsibility of all concerned, and the staff at Randall K. Cooper High School is prepared to counsel and advise you during this process.

Since our course selection and staffing needs are based on student requests, it is extremely important that this process be given appropriate time, effort, and planning on the part of each student and his/her family. No schedule changes in core content courses will be permitted unless necessary to meet graduation requirements once students turn in their request sheets. Your selections are a commitment to specific courses; our expectation is that these commitments be honored.

I encourage you to challenge yourself, strengthen your abilities, and take advantage of the opportunities offered at Randall K. Cooper High School. Take chances, try new things, and push yourself to reach new levels. These experiences, along with good study habits and active participation in class, will allow you to identify interests, develop plans and attain skills. In turn, this growth will pave a road to success and build a foundation for a life of learning.

Join me in making the 2023-2024 school year the best ever!

Sincerely,

D. Michael Wilson

D. Michael Wilson

Principal

General Information

This course description booklet is meant to serve as a guide for students during the course selection process. Not all courses listed may become classes based on the number of student requests during the scheduling process. Due to district and state regulations, changes are sometimes necessary after the booklet is printed. Please use this booklet as a guide and refer to the school website for the most recent (official) descriptions for courses.

BOONE COUNTY BOARD OF EDUCATION NON-DISCRIMINATION POLICY STATEMENT

Students, their parents, and employees of the Boone County School system are hereby notified that this school district does not discriminate on the basis of race, color, national origin, age, religion, marital status, sex, or disability in employment programs, vocational programs, or activities as set forth in compliance with the Office of Civil Rights, Title VI, Title VII, Title IX, ADA and Section 504.

Any person having inquiries concerning Boone County Schools compliance with the Office of Civil Rights Law, Title VI, Title VII, Title IX, ADA and Section 504 is directed to contact Kathleen G. Reutman, Boone County Schools, 8330 U.S. 42, Florence, KY, Telephone (859)283-1003 who has been designated by the Boone County Schools to coordinate the District's efforts to comply with Title IX, Title VI, Title VII and the Americans with Disabilities Act and Section 504.

CREDIT TRANSFER

◆Credits transferring from a non- accredited school will be reflected as pass or fail on the student's transcript and will not be used in the computation of class rank and grade point average. Transferring students may be required to demonstrate proficiency in course material before credit is applied toward graduation requirements. Credit transferring from an accredited school will be reflected on the student's transcript.

◆The grading scale used to calculate GPA and class rank for transfer students is the Boone County District scale *see GPA calculation chart.

◆If only alpha grades (letter grades) are received; numeric value based upon the grading scale of Cooper High School will be assigned.

Grade from school	Numeric Grade assigned	Honors Index (1.02)	AP/Gatton/Dual Credit Index (1.04)
A	100	102	104
B	89	91	93
C	79	81	82
D	70 (For transfer students only. Use previous scale.)	71 (For transfer students only. Use previous scale.)	73 (For transfer and Dual Credit students only. Use current scale.)
F	66	67	69

◆The Principal of Cooper High School has the final authority regarding transfer of credit.

INDIVIDUAL LEARNING PLAN

Cooper High School students are provided an online college and career planning tool to assist with the development of an individual learning plan. This individual learning plan will help secondary students better focus their coursework on individual goals as they prepare for postsecondary studies and careers. Our plan is for this resource to offer more opportunities for teachers, advisors, students and their parents to discuss their future goals and make their secondary educational experience the best it can be.

Research shows that teachers can become better connected with students when their interests are discussed. Students can be provided with more individual attention or advice as needed when there is a process in place to allow individual discussions. This tool will be invaluable to high schools, middle schools and districts as they plan course offerings and staffing to meet the academic and career interests of all students.

GPA Calculation Chart

	Academic	Honors	AP
Index	1.0	1.02	1.04
Numeric Score Quality Points			
104			5.0
103			5.0
102		4.5	5.0
101		4.5	5.0
100	4.0	4.5	5.0
99	4.0	4.5	5.0
98	4.0	4.5	5.0
97	4.0	4.5	5.0
96	4.0	4.5	5.0
95	4.0	4.5	5.0
94	4.0	4.5	5.0
93	4.0	4.5	5.0
92	4.0	4.5	5.0
91	4.0	4.5	5.0
90	4.0	4.5	5.0
89	3.0	3.5	4.0
88	3.0	3.5	4.0
87	3.0	3.5	4.0
86	3.0	3.5	4.0
85	3.0	3.5	4.0
84	3.0	3.5	4.0
83	3.0	3.5	4.0
82	3.0	3.5	4.0
81	3.0	3.5	4.0
80	3.0	3.5	4.0
79	2.0	2.5	3.0
78	2.0	2.5	3.0
77	2.0	2.5	3.0
76	2.0	2.5	3.0
75	2.0	2.5	3.0
74	2.0	2.5	3.0
73	2.0	2.5	3.0
72	2.0	2.5	3.0
71	2.0	2.5	3.0
70	2.0	2.5	3.0

CAREER AND TECHNICAL PLANNING

Career Assessments (YouScience) utilized in the Individual Learning Plan.

Academic Assessments

ACT – is a very important college admission exam. **Subject tests are in English, Math, Reading and Science. This assessment is administered to all eleventh graders in March as part of state assessment. ALL JUNIORS are highly encouraged to take the December ACT. Registration is done online at www.actstudent.org. The score on this exam not only determines admission, but also scholarship eligibility. It is recommended that college bound students take the ACT three times for optimal performance. **Special note: *Students eligible for free/reduced lunch are eligible for two ACT fee waivers during high school to take the ACT for FREE.***

PSAT – the pre SAT is given each year on a national test date. This test may qualify students for the National Merit Scholarship and commendation as well as qualifying for the Governor’s Scholar Program. This is an optional test and has a fee of around \$20.00. It is recommended for college-bound students as practice for freshmen and sophomores and the qualifying score junior year.

ASVAB – the Armed Services Vocational Aptitude Battery is a career exploration instrument offered by the Department of Defense to over one million high school students yearly by contacting any local recruiting office. The ASVAB is offered to any upperclassmen each year. All students will follow-up their results with The Holland Self-Directed Search (SDS) which will serve as an individual guide to educational and vocational career planning.

CTE EOP - Career and Technical Education End-of-Program Assessment for Articulated Credit is one measure of career readiness as a transition readiness indicator of the Kentucky’s accountability system. CTE EOP Assessments are state developed assessments based upon clear and concise standards identified by Kentucky employers, aligned with CTE career pathways and associated with statewide articulation agreements with postsecondary partners.

DUAL CREDIT

There are several ways students can earn both high school credit and college credit while in high school. Cooper High collaborates with many post-secondary institutions. See more detailed information under “Ways to Earn College Credit at Cooper High School”.

Schedule Changes

There will be no schedule changes for core-content courses granted once a student has submitted their course requests.

We build the master schedule and teacher assignments based on student requests. Schedule changes will be granted for required courses for graduation with priority given to seniors.

Schedule changes are only permitted for a select few reasons:

- You have already passed the course.
- You did not get scheduled for a course you need to graduate.
- You do not have the pre-requisite for this course.
- You did not request the course.
- You did not get your requests during scheduling.

The last day to for schedule changes is the end of the second week of the school year.

COOPER AP COURSES: SPECIAL NOTE

Advanced Placement courses offer students the opportunity to do college-level work while still in high school. Advanced Placement courses are developed by College Board. These rigorous courses are equivalent to college courses and college credit may be earned depending on the score on the AP exam and which college the student will be attending.

Students should expect to do homework regularly and have additional reading and writing compared to a non-AP course.

Students are strongly encouraged to take the corresponding AP exam in May. Students who take the AP exam will be exempt from the spring semester final for the course. Students not taking the exam will take an AP equivalent comprehensive final exam for the course and the score will be reflected on the permanent record.

Students who are eligible for free or reduced lunch may not need to pay for the exams. Please check with the Guidance Office. AP exam scores range from 1 to 5. Generally, colleges start awarding college credit for a score of 3. Check with individual colleges to verify the score they accept and hours awarded. Due to the difficulty level of the course, scores are indexed by 1.04 of the average.

Students who are academically prepared and willing to work hard are encouraged to take AP courses. In addition to the challenges provided and the potential to earn college credits through an AP course, students may experience long-range financial benefits. Please refer to the AP Savings Charts located at the end of each academic department for examples of potential savings.

NCAA ELIGIBILITY

***Information subject to change. Check the website listed for the most current up-to-date information.**

Student - athletes who plan to participate in college athletics their freshman year must register with the NCAA Initial-Eligibility Clearinghouse in the fall of their senior year. To register, go to www.ncaa.org, complete the required information, print the two transcript release authorizations, and take them to the school counselor. A copy of the transcript, along with the first release will be sent to the Clearinghouse. After reviewing your transcript, a final certification decision will be made according to the NCAA standards listed below.

CORE UNITS REQUIRED FOR NCAA CERTIFICATION

	Division 1	Division 2
English Core	4 years	3 years
Math Core	3 years	2 years
Science Core	2 years	2 years
S. S. Core	2 years	2 years

Additionally:

From English, Math or Science
1 year 3 years

Additional Core (English, Math, Science, Social Science,
Foreign Language, Computer Science)
4 years 4 years

TOTAL CORE UNITS REQUIRED
16 16

Ten of the sixteen core courses must be completed before the start of the senior year of high school. Seven of the ten core courses must be in English, Math or Science.

Important Notes:

- Math requirements must begin with Algebra I or higher.
- In addition to the 16 core courses, students must meet the guidelines on a sliding scale combining a range of core-courses GPA's with corresponding ACT or SAT test results. Please view that sliding scale on the NCAA website listed above.
- ***Please pay special attention when selecting core courses within each department. Some core courses do not meet the minimum requirements for NCAA eligibility.***

In addition, students must have a GPA of 2.3 in the 16 core-courses for Division I and have a GPA of 2.0 in the 16 core courses for Division II.

NAIA ELIGIBILITY REQUIREMENTS FOR FIRST-TIME COLLEGE FRESHMEN

***Information subject to change.**

Every incoming freshman must meet two of the following three entry-level requirements in order to be eligible for intercollegiate competition:

1) Minimum Test Scores:
18 composite score on the ACT or 970 on the SAT*

*Exception: ACT tests taken March 1, 2016 through April 30, 2019 require a composite score of 16. SAT tests taken March 1, 2016 through April 30, 2019 require a score of 860.

OR

2) An overall high school grade point average of 2.0 on a 4.0 scale)

OR

3) Graduate in the top half of the student's highschool graduating class.

NOTE: Effective August 1, 1994, eligibility for practice and competition in the freshman year of college will be certified by an initial-eligibility clearinghouse.

Website:

<http://naia.org>

Graduation Requirements

MINIMUM HIGH SCHOOL REQUIREMENTS

The minimum requirements for graduation are currently under review by the Kentucky State Board of Education. The following requirements are subject to change.

English 4 credits I, II, III, IV
One English course must be taken each year.*
**Exceptions: via Early College and Dual Enrollment*

Mathematics 4 credits
 Algebra I, Geometry and Algebra II are required.
One Mathematics course must be taken each year.*
**Exceptions: via Early College and Dual Enrollment*

Science 3 credits
 Integrated Science, Biology, Chemistry or Physics

Social Studies 3 credits
 Geography, World History & US History

Arts & Humanities 1 credit
Health ½ credit
Phys. Ed. ½ credit
CTE 1 credit
Electives 5 credits

*Please note the minimum requirements may not meet Pre-College Curriculum.

TOTAL=MINIMUM OF 22 CREDITS

Pre-College Curriculum

By successfully completing the Minimum High School Requirements all students at Cooper High School meet Pre-College Curriculum with the addition of 2 credits in the same World Language. The Pre-College Curriculum is required for students planning to attend a 4-year post-secondary institution.

Students meeting minimum requirements or pre-college curriculum will earn a regular Cooper High School Diploma. RCHS students may also choose to earn one of the following:

Kentucky Scholars Recognition

English I, II, III, IV 4 credits
One English course must be taken each year while at RCHS.*
**Exceptions: via Early College and Dual Enrollment*

Mathematics 4 credits
 Algebra I, Geometry, Algebra II, and the math prerequisite required for Physics.
One math course must be taken each year while at RCHS.

Science 3 credits
 Biology, Chemistry and Physics are required.

Social Studies 3 credits
 Geography or AP Human Geo., World History or AP Euro History, and US History or AP US History are required.

World Language 2 credits
 2 credits in same language

Arts & Humanities 1 credit
Health ½ credit
Phys. Ed. ½ credit
CTE 1 credit
Electives 4 credits

Graduation with Honors

Any student with a weighted grade of 3.8 or higher will be considered as graduating with honors and will be recognized at the graduation ceremony. A "graduating senior" according to this policy shall be a student who has previously completed seven (7) high school semesters from an accredited high school and is currently completing the eighth (8th) high school semester at Cooper High School. Cooper High School will recognize seniors who have completed all the state, Board, and school requirements for graduation, have achieved a high level GPA and taken Advanced Placement or Dual Enrollment courses as outlined below by identifying individual students as graduating Cum Laude, Magna Cum Laude, Summa Cum Laude. Requirements for each of Cooper High School's recognition levels:

Recognition	Weighted GPA Requirement	Required Courses
Cum Laude	3.8	2 (Combination AP & Dual Enrollment)
Magna Cum Laude	4.15	5 (Combination AP & Dual Enrollment)
Summa Cum Laude	4.5	8 (Combination AP & Dual Enrollment)

Other Graduation Requirements for ALL students:

- A senior graduation project is a requirement which will be a Service-Learning project. The interview will consist of both written and presentation skills evaluated by a panel.
- Students in all graduation classes must complete eight semesters of coursework, based on a six-hour instructional day.
- An Individual Learning Plan (ILP) must be completed each year.
- Beginning with the class of 2022 Cooper High School will no longer be calculating class rank.
- Students will not be allowed to accelerate English classes. An English class must be obtained each year. (Exception is Eng. 101 and 102 taken during Jr. year of Early College)
- Students must take at least one math course per year. (Exception are those students in Early College)
- All students must complete 20 hours of community service. (recommend completing 5 per year)
- All students must pass a civics test composed of 100 questions. Students are required to score 60%.
- Successfully complete a course or program in financial literacy (grade 9 students entering the 2020-21 school year).
- CPR Training (students will receive this in the Health Education course).

Credit Requirements for college courses:

Students are required to be enrolled in 6 RCHS credits per year or the college equivalent. If taking college courses to replace RCHS credits, courses must be 3 credit hours to be equivalent to one RCHS credit.

CREDITS NEEDED FOR PROMOTION	
Senior	- 16 credits
Junior	-11 credits
Sophomore	- 5 credits
<p>The grade level the students enter on the 1st day of school is the grade level for that student for the year.</p>	

English

English at Cooper

Students are required to obtain 4 English credits while in high school. At Cooper, we also require that an English course be taken each of the 4 years. With many options available to students, the English department has put together pathways to help students choose the best path for them based on their future goals. It is important to consider the following:

- Do you plan to pursue a career directly after high school?
- Do you plan to join the military?
- Are you considering playing a sport at the college level?
- Do you plan to attend a traditional college or university?
 - If so, do you plan on majoring in a career field that would need you to have strong writing skills? (Teaching, Law, Journalism, Marketing, Communications, etc.)

- **Career Bound Pathway:** This pathway is recommended for students who plan to pursue a career directly after high school, attend a trade school, or join the military.
 - English 1-> English 2-> English 3-> English 4

- **College Bound Pathway**
- *Option A: This pathway is recommended for students who plan to attend a traditional college or university.*
 - English 1 Honors→ English 2 Honors→ English 3 Honors→ AP Literature/English 101
 - English 1 Honors → English 2 Honors → AP Language→ Dual Enrollment
- *Option B: This pathway is recommended for students who plan to attend a traditional college or university AND are considering a major that requires strong writing skills OR who are attending a more selective, competitive university.*
 - English 1 Honors→ English 2 Honors → AP Language→ AP Literature

Required English Courses:

English I

Course #230107-1

Credit: 1

Grade Level: 9

This course will focus on research-based reading and writing strategies. Students will read nonfiction and fiction to enhance fluency, vocabulary and comprehension. The course will also involve reading analysis and application to real world experiences. Students will also write to learn, write to demonstrate learning, and write for authentic purposes and audiences. Students' vocabulary, grammar, and writing skills will be developed.

English I Honors *(Honors Weighted)*

Course # 230107-H

Credit: 1

Grade Level: 9

Recommended: CERT Reading Score- 18 OR Teacher Recommendation

This course continues to develop effective reading strategies through the use of the analysis of reading, using research-proven reading strategies. This course will cover material of English I, but in more depth, using essential reading skills as a foundation. Students will also write to learn, write to demonstrate learning, and write for authentic purposes and audiences. Students' vocabulary, grammar, and writing skills will be developed.

English II

Course # 230110-1

Credit: 1

Grade Level: 10

Prerequisite: Eng. I

This required course will involve reading, listening and interpreting culturally diverse literary selections (poetry, novel, short stories, drama, and nonfiction) through focused readers' responses. Students will also analyze literary and informational selections and write for authentic audiences. Students will evaluate and apply good writing skills in terms of purpose, content, organization and style through peer and individual reflective responses. Students' vocabulary, grammar, and writing skills will continue to be developed.

English II Honors *(Honors Weighted)*

Course # 230110-H

Credit: 1

Grade Level: 10

Recommended: English I with 87% or higher OR Teacher Recommendation

This course continues to develop skills of reading, listening and interpreting culturally diverse literary selections but at a much faster rate with more in-depth focus on analyzing, composing and reflection. This course will also serve as an introduction to AP Language and Composition with an emphasis on rhetoric. Students' vocabulary, grammar, and writing skills will continue to be developed.

English III

Course # 230113-1

Credit: 1

Grade Level: 11

Prerequisite: Eng. II

Literature from a variety of genres will be studied throughout American History. Students' vocabulary, grammar, and writing skills will continue to be developed. The emphasis will be upon effective writing in a variety of modes and increasing competency in reading, analyzing, and interpreting different genres of literature. Students will work to improve career and college readiness skills.

English III Honors *(Honors Weighted)*

Course # 230113-H

Credit: 1

Grade Level: 11

Recommended: CERT Scores: English- 18, Reading, 20 OR Teacher Recommendation

This course is good for students who have never participated in an Honors course and/or those who want to develop the skills needed for post-secondary education. The course will cover the topics in English III but at an in-depth and more rigorous level. This class will incorporate both reading and writing with a variety of genres and focus on analysis of literature, argumentative writing and ACT preparation.

AP English III Language and Composition *(AP Weighted)*

Course # 230166-1

Credit: 1

Grade Level: 11

Recommended: CERT Scores: English- 20, Reading, 22 OR Teacher Recommendation

This one year course engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who write for a variety of purposes. Students should expect this course to be similar to an introductory college writing course that focuses on expository writing, analytical writing, personal writing, persuasive and reflective writing. Students will be required to manage their time to handle outside reading and writing assignments, as well as participate in regular class discussions. Students are strongly encouraged to take the AP test in May, for which they may earn college credit.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

English IV**Course # 230116-1**
Prerequisite: Eng. III**Grade Level: 12****Credit: 1**

This required course will continue the development of writing skills needed for students to perform well in *twenty-first century literacy skills*. Vocabulary, grammar, and writing skills will be reinforced. Reading materials will be used as a basis for writing assignments including literature from a variety of genres. A research/multimedia project will be required.

English IV Honors (*Honors Weighted*)**Course # 230116-H**
Recommended: Eng. III with 90% or higher**Grade Level: 12****Credit: 1**

This course will cover the topics in English IV at an in-depth and rigorous level. This class will incorporate both reading and writing within a variety of genres. This class focuses on critical analysis of literature and a research/multimedia project will be required.

AP English IV Literature and Composition (*AP Weighted*)**Course # 230167-1**
Recommended: CERT score of 22 or higher in English and Reading or A/B+ in previous English course**Grade Level: 12****Credit: 1**

This year-long AP course in English Literature and Composition engages students in the careful reading and critical analysis of literature. The use of material from various genres will necessitate a variety of writing and speaking activities that should enhance students' awareness of the resources of language. Students enrolled in this course must assume considerable responsibility for the amount of reading and writing required. Students are strongly encouraged to take the AP test in May, for which they may earn college credit.

English Electives:**Film Studies****Course # 230140-1****Grade Level: 9-12****Credit: .5***

* (Can fulfill .5 Arts and Humanities credit)

Film studies is a course intended to familiarize students with the particulars of film history as well as to provide them with a chance to analyze film as a visual art form. This course should appeal to any and all students who love to watch movies and discuss them in an academic setting. Students will view films from a variety of time periods and analyze how the media was created through both written and spoken analysis, as well as create a project that demonstrates their understanding of the concepts.

Mythology**Course # 230140-3****Grade Level: 9-12****Credit: .5**

This course is designed to acquaint students with readings and exposure to works of art and cultural products. Students will come to know some of the world's most influential mythology in more thorough and meaningful ways.

Creative Writing**Course # 230511-1****Grade Level: 9-12****Credit: .5**

Recommended: B or higher in current English course

This course provides an opportunity for students to discover and perfect their creative communication skills. Students learn to develop voice, tone, focus, form, and meaning in different writing styles. Students will learn peer conferencing skills and creative revision techniques. This course is best suited for students who enjoy writing and have been successful in English class.

Yearbook Production I (*by application only*)**Course # 239141-1****Grade Level: 9-12****Credit: 1**

Prerequisite: Yearbook advisor recommendation as part of the application process

Parts A and B

New staff members will learn the basics of publishing a yearbook that include: developing a theme, learning layout design, writing headlines, captions and body copy, successfully selling ads, and photographing and cropping digital pictures.

Yearbook Production II (*by application only*)**Course # 239142-1****Grade Level: 10-12****Credit: 1**

Prerequisite: Yearbook I

Parts A and B

Staff members will continue to enhance their journalistic, graphic, and photographic skills. Those wishing to assume leadership positions in their senior year will begin to learn those jobs in the third trimester. After school ends, the staff will finish the remaining few spreads. Students at this level may elect to join the advisor at yearbook camp for three days during the summer vacation.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Yearbook Production III (by application only)

Course # 239143-1

Grade Level: 11-12

Credit: 1

Prerequisite: Yearbook II

Parts A and B

This course for veteran yearbook staff members is designed for those who want to become the editor-in-chief, the photo manager, the business manager, or one of the section editors. In one of these positions the student will not only continue to perform skills and tasks learned in Yearbook I and II, they will also assist the yearbook advisor in supervising the staff and critiquing the work in order to complete the yearbook. After school ends, these students will finish the remaining few spreads the week or two following graduation.

Journalism

Course # 239111-1

Grade Level: 10-12 *

Credit: 1

***9th graders permitted with an enrollment in English I Honors**

Recommended: A or B+ in English I Honors class

As members of the Journalism class, students will learn the different writing elements involved in producing a newspaper. They will demonstrate an understanding of Journalism basics including story development, interviewing, copy writing, editing and photography.

This course may be repeated. For students who repeat the course, they will participate in the regular production of a student newspaper that will report the happenings in Cooper's halls. Students will assume leadership positions as they become the voice of the student body.

Graphic Novels

Course # 230140-7

Grade Level: 9-12

Credit: .5*

Prerequisite: None

***(Can fulfill .5 required Arts and Humanities credit)**

This course is designed to teach students to learn the fundamentals of the creation and production of graphic novels, along with how to understand and enjoy comics and graphic novels that make up the history of this medium in the modern English-speaking world. This course will ensure that students are able to recognize the visual references, theoretical terms, and the artistic techniques used by comic writers and artists. Students will also be creating their own graphic novels.

Reading and Language Arts Intervention

Course # 231295

Grade Level: 9-12

Credit: 1






Counselor Recommendation Only






This course is for students who need additional time and support or for students in reading at the high school level who could benefit from enrichment. This course includes social sciences, natural sciences, humanities, and literary texts. This course will reinforce the importance of in-class and online work. Students will learn through supplemental reading skills for time management, studying, decision-making and work. Check-ins will happen with students daily on issues which may be impacting his/her life and academic success.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Cooper High School AP Credit Hours and Savings Opportunities*

*check individual school websites for details

AP Class															
	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course
AP English Language	3-5	3	101	3-5	3	101	3-5	3-4	101, 105	3-5	3-6	101, 102	3-5	3	1001
AP English Literature	3-5	3-6	101, 230	3-5	3	250	3-5	3	201	3-5	3-6	101, 102	3-5	3	1001
Cost Per Credit Hour		\$401			\$406			\$370			\$314			\$465	
AP Savings		\$3,609			\$2,436			\$2,590			\$3,768			\$2,790	
Credit Hrs. Earned		9			6			7			12			6	

AP Class															
	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course
AP English Language	3-5	6	150	3-5	3	100	4-5	4	3000	3-5	3	101, 291	3-5	3	100
AP English Literature	3-5	6	150, 255	3-5	3	100, 120	4-5	4	3000	3-5	3	200	3-5	3-6	100, 200
Cost Per Credit Hour		\$590			\$320			\$750			\$337			\$363	
AP Savings		\$7,080			\$1,920			\$6,000			\$2,022			\$3,267	
Credit Hrs. Earned		12			6			8			6			9	

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Cooper Academy of Mathematics and Science (CAMS)

The purpose of Cooper Academy of Mathematics and Science (CAMS) is to provide our students who have excelled in mathematics, science, and reading. This is a high school curriculum rich with AP mathematics and science courses meet precollege curriculum and challenge and prepare them for a post-secondary mathematics or science careers.

For a student to be considered for special recognition at graduation for participating in the CAMS program they must meet the following requirements (paying careful attention to their focus area):

- Successfully meet all graduation requirements established by Cooper High School
- Complete the following courses:

<ul style="list-style-type: none"> ○ Algebra 2 Honors ○ Geometry Honors ○ Pre-Calculus ○ AP Calculus BC ○ Capstone Math Course (determined through advisement) 	<ul style="list-style-type: none"> ○ Chemistry Honors ○ AP Chemistry ○ AP Physics Mechanics ○ 2 of 3: AP Biology, Honors Biology, or AP Physics Electricity and Magnetism (offered odd years)
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- Hold an unweighted cumulative average of at least 80 in the above listed classes.

Below is an example for a CAMS student's four year graduation plan. **Students who wish to take four years of band, choir, or a world language can do so**, but in most cases at least one summer course must be taken. Because of this, it is of utmost importance for all CAMS students to create their own personal four year plan upon entering the academy to make sure all graduation requirements are met. For more information about possible schedules, please see our website at www.coopercams.yolasite.com.

9 th Grade	10 th Grade
English I or English I Honors	English II or English II Honors
Algebra 2 Honors	World History or AP European History
Geometry Honors	Pre-Calculus
Chemistry Honors	AP Chemistry
AP Human Geography or Human and Physical Geography	AP Physics C Mechanics
Open Period	Open Period

ENGINEERING FOCUS

11 th Grade	12 th Grade
English III Honors or AP Language and Composition	English IV Honors or AP Literature and Composition
US History or AP US History	Capstone Math (determined by individual advisement)
AP Calculus BC	Honors Biology or AP Bio or AP Physics Electricity/Mag
Honors Biology or AP Bio or AP Physics Electricity/Mag	World Language
World Language	Open Period
Open Period	Open Period

MEDICAL PROFESSION FOCUS

11 th Grade	12 th Grade
English III Honors or AP Language and Composition	English IV Honors or AP Literature and Composition
US History or AP US History	Capstone Math – AP Statistics recommended
AP Calculus BC	AP Biology (or Anatomy if AP Biology in 11 th grade)
Honors Bio (or AP Biology, then Anatomy)	World Language
World Language	Open Period
Open Period	Open Period

With “open periods” students must ensure they meet all graduation and prerequisite requirements. These include the following:

- | | |
|---------------------------|------------------------------|
| 1. 1 CTE Credit | - May be taken during summer |
| 2. .5 PE Credit/.5 Health | - May be taken during summer |
| 3. 1 Fine Arts | - May be taken during summer |

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Mathematics

Required Math Courses:

Algebra I

Course # 270304-1

Grade Level: 9

Credit: 1

This course is designed to develop the basic algebra skills with a focus on the various numbers and their operations, and solving equations as well as inequalities. The first semester prepares the student to solve real world problems and applications using various techniques. Second semester's topics include graphing equations of lines using slopes, exponents and polynomials. Using a graphing calculator will be introduced.

Algebra II

Course # 270311-1

Grade Level: 9-12

Credit: 1

Prerequisite or co requisite: Geometry

Algebra II introduces the student to more complex concepts from algebra. This class introduces the students to the advanced algebraic concepts as they apply to real world circumstances as well as future math related courses with a special focus on rational expressions, polynomials, exponential, logarithmic and quadratic functions, mathematical patterns and probability. This course covers content from the ACT.

Algebra II Honors (*Honors Weighted*)

Course # 270311-H

Grade Level: 9-11

Credit: 1

Prerequisite: Alg. I with A or B; freshmen wishing to double up in mathematics must have teacher approval;
Recommended: CERT of 19 or higher.

Algebra II introduces the student to more complex concepts from algebra. This class introduces the students to the advanced algebraic concepts as they apply to real world circumstances as well as future math related courses with a special focus on rational expressions, polynomials, exponential, logarithmic and quadratic functions, mathematical patterns and probability. This course covers content from the ACT, and is necessary to keep from taking remedial math in college.

As an honors class, topics will be covered with the understanding the pace is faster and more in depth with additional math topics.

Geometry

Course # 270401-1

Grade Level: 9-12

Credit: 1

Prerequisite: Algebra I

Emphasis is placed on discovery, proof, and application of geometric principles and relationships. Topics include points, lines, planes, angles, triangles, transformation, congruency, and parallel lines. This course also focuses on similar polygons, proof, quadrilaterals and other polygons, right triangle trigonometry, circles, volume, applications of geometric principles, relationships and formulas.

Geometry Honors (*Honors Weighted*)

Course # 270401-H

Grade Level: 9-11

Credit: 1

Prerequisite: Algebra I with A or B; Students earning an A or B in Algebra I should consider signing up for this course. Freshmen wishing to double up in mathematics must have teacher approval. Recommended: CERT of 19 or higher.

Emphasis is placed on discovery, proof, and application of geometric principles and relationships. Topics include points, lines, planes, angles, triangles, transformation, congruency, and parallel lines. This course also focuses on similar polygons, proof, quadrilaterals and other polygons, right triangle trigonometry, circles, volume, applications of geometric principles, relationships and formulas.

As an honors class, topics will be covered with the understanding the pace is faster, with more depth, additional math topics, and more emphasis on logic and proof.

Additional Math Courses

Mathematics Intervention

Course #270309-1

Grade Level: 12

Credit: 1

Prerequisite: Seniors only; Recommended CERT/ACT score below 15

This course does NOT meet NCAA eligibility requirements for Math.

This course will help students meet benchmark in math by completing a college placement test (KYOTE) for math. Passing this test with a score of 22 ensures that students can enroll in a college credit-bearing mathematics course in the state of Kentucky in place of taking remedial math classes. This class will also increase the likelihood for successful completion in future college math courses by strengthening their critical math skills. Students will review Algebra I, Algebra II and Geometry topics.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Algebra III

Course # 270321-H

Grade Level: 11-12

Credit: 1

Prerequisite: Algebra I, Geometry & Alg. II

Recommended: CERT or ACT score of 15 or greater.

This course is recommended for the college bound student who will not take Calculus.

This course goes beyond traditional Algebra 2 content. This course is designed for students who are intending to enter into post-secondary education and perhaps pursue a degree that requires an algebra pathway but are in need of additional mathematics preparation in order to be successful in a credit-bearing college algebra course. *A TI-84 graphing calculator is suggested for this course.*

Pre-Calculus Honors (*Honors Weighted*)

Course # 270501-1H

Grade Level: 10-12

Credit: 1

Prerequisite: Honors Geometry and Honors Algebra II with an A or B or Geometry and Algebra II with an A or Algebra III with an A

Recommended: CERT or ACT score of 19 or greater. A TI-84 or higher graphing calculator is recommended for this course.

This course covers trigonometric functions, identities, addition formulas, inverse trig functions, and trigonometric equations. The second semester focuses on functions and graphs, linear equations, exponential, logarithmic, and rational functions as well as other pre-calculus topics. These may be relationships and functions, conic sections, probability, and word problems. Introduction and use of graphing calculators will be included in this course. This course will also include an emphasis on ACT items for college readiness.

NOTE: In order to be proficient in trigonometry students must be proficient in **ALL GEOMETRIC CONCEPTS**: congruence, similarity, formulas for plane and solid figures, ratios and proportions, properties of the quadrilaterals, right triangle theorems, as well as the special right triangle ratios, and triangle relationships.

AP Statistics (*AP Weighted*)

Course # 270604-1

Grade Level: 11-12

Credit: 1

Prerequisite: Algebra I, Geometry, Algebra II; Recommended CERT or ACT score of 19 or higher

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students will study four broad themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students who successfully complete the course and exam may receive credit for a one-semester introductory college statistics course.

Probability and Statistics Honors (*Honors Weighted*)

Course # 270602-1H

Grade Level: 12

Credit: 1

Prerequisite: Algebra I, Geometry and Algebra II; Recommended CERT or ACT score of 19 or higher

This course is recommended for the college bound student who will not take Calculus. Students who have not met college readiness will need to complete extra course work to prepare them for that benchmark.

Content items include measures of central tendency; graphs and their interpretations; measures of variability; normal curve distributions; charts and graphs; range and standard deviation; probability of simple events; sampling techniques; hypothesis testing; other review of math basics in preparation for the ACT/SAT. This course may not be a substitution for required core courses.

AP Calculus AB (*AP Weighted*)

Course # 270513-1

Grade Level: 11-12

Credit: 1

Prerequisite: Pre-Calculus; Recommended CERT or ACT score of 19 or higher

This course is intended for the student who has a thorough knowledge of college preparatory mathematics including: Algebra, axiomatic geometry, trigonometry, and analytic geometry. Topics include functions, limits, derivatives, integrals, and applications of derivatives and integrals. A student enrolled in AP Calculus AB cannot take AP Calculus BC at the same time.

AP Calculus BC (*AP Weighted*)

Course # 270514-1

Grade Level: 11-12

Credit: 1

Prerequisite: Accelerated Pre-Calculus or Pre-Calculus with teacher permission; Recommended CERT or ACT score of 19 or higher

This course is intended for students who plan to major in math, a physical science, or engineering in college and have excelled in their previous math courses. No student should take both AB and BC at the same time. Topics include all those listed under AP Calculus AB as well as integration by parts, L'Hopital's Rule, sequences and series, and polar and parametric coordinates.

KSU College Algebra (*Dual Enrollment*)

Course #270320-KSU

Grade: 12

Credit: 1

Prerequisite: B+ in Algebra II; Required: ACT score of 19 or higher

Fee: \$65.00

This is a dual enrollment online course (with teacher support in the classroom) that will give students opportunity to gain college credit hours and experience in college math. It will also provide another opportunity to get students college and career ready. This class is designed for intrinsically motivated students who should plan to spend on average one hour outside of class per week day on assignments and quizzes. The assignments are completed online and the assessments are given in a more traditional paper/pencil layout. Support is given to the students through online videos made by Kentucky State University and in class lessons with a Cooper High School mathematics teacher.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Engineering I *(Honors weighted)*

Course #210221-1

This course **does NOT** meet NCAA eligibility requirements for Math.

See CTE section for full course description.

Engineering II *(Honors weighted)*

Course # 210222-1

ELECTIVE MATH CREDIT: Students may use this course as a math elective for their SENIOR year only if they have met Benchmark (19 or greater on the ACT). Senior students not meeting benchmark and all other grade levels may take this credit as an elective.

This course **does NOT** meet NCAA eligibility requirements for Math.

See CTE section for full course description.

Civil Engineering and Architecture *(Honors weighted)*

Course #219905-1

ELECTIVE MATH CREDIT: Students may use this course as a math elective for their SENIOR year only if they have met Benchmark (19 or greater on the ACT). Senior students not meeting benchmark and all other grade levels may take this credit as an elective.

This course **does NOT** meet NCAA eligibility requirements for Math.

See CTE section for full course description.

Aerospace Engineering *(Honors weighted)*

Course #210229

ELECTIVE MATH CREDIT: Students may use this course as a math elective for their SENIOR year only if they have met Benchmark (19 or greater on the ACT). Senior students not meeting benchmark and all other grade levels may take this credit as an elective.

This course **does NOT** meet NCAA eligibility requirements for Math.

See CTE section for full course description.

Introduction to Programming

Course # 110201-1

ELECTIVE MATH CREDIT: Based on instructor certification students may use this course as a math elective for their SENIOR year only if they have met Benchmark (19 or greater on the ACT). Senior students not meeting benchmark and all other grade levels may take this credit as an elective.

See CTE section for full course description.

Java Programming 2 Honors *(Honors Weighted)*

Course # 110206-H

ELECTIVE MATH CREDIT: Based on instructor certification students may use this course as a math elective for their SENIOR year only if they have met Benchmark (19 or greater on the ACT). Senior students not meeting benchmark and all other grade levels may take this credit as an elective.

See CTE section for full course description.

AP Computer Science Principles *(AP Weighted)*

Course #110711-1

ELECTIVE MATH CREDIT: Based on instructor certification students may use this course as a math elective for their SENIOR year only if they have met Benchmark (19 or greater on the ACT). Senior students not meeting benchmark and all other grade levels may take this credit as an elective.

See CTE section for full course description.

AP Computer Science A *(AP Weighted)*

Course #110701-1

ELECTIVE MATH CREDIT: Based on instructor certification students may use this course as a math elective for their SENIOR year only if they have met Benchmark (19 or greater on the ACT). Senior students not meeting benchmark and all other grade levels may take this credit as an elective.

See CTE section for full course description.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Cooper High School AP Credit Hours and Savings Opportunities*

*check individual school websites for details

AP Class	UK UNIVERSITY OF KENTUCKY			UNIVERSITY OF LOUISVILLE It's Happening Here.			Murray MURRAY STATE UNIVERSITY™			EASTERN KENTUCKY COLONELS			UC UNIVERSITY OF Cincinnati		
	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course
Calculus AB	3-5	4	113	3-5	3-4	180, 205	3-5	5	250	3-5	4-5	109, 124	3-5	4	1061
Calculus BC	3-5	8	113, 114	3-5	3-8	100, 205, 206	3-5	5-10	250, 308	3-5	4-8	124, 224	3-5	8	1061, 1062
AP Statistics	3-5	3-6	210, 291	3-5	3	109	3-5	4	135	3-5	3	215, 270	3-5	3-6	1034, 1035
AP Computer Science	3-5	3-6	Elective, 115	3-5	3	100X	3-5	3	235	4-5	3	190	3-5	4-12	1021, 1022, 1080
Cost Per Credit Hour		\$401			\$406			\$370			\$314			\$465	
AP Savings		\$9,624			\$7,308			\$8,140			\$5,966			\$13,950	
Credit Hrs. Earned		24			18			22			19			30	

AP Class	THOMAS MORE UNIVERSITY			MOREHEAD STATE UNIVERSITY			TRANSYLVANIA UNIVERSITY FOUNDED 1780			NKU NORTH KENTUCKY UNIVERSITY INKU EASTERN KENTUCKY UNIVERSITY			WKU		
	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course
Calculus AB	3-5	4	151	3-5	4	175	4-5	4	1304	3-5	3-4	128, 129	3-5	4	119, 136
Calculus BC	3-5	8	151, 152	3-5	4	275	4-5	4	1034, 1324	3-5	4-5	129, 229	3-5	4-8	136, 137
AP Statistics	3-5	3	205	3-5	3	123	4-5	4	1144	3-5	3	212, 205, 113	3-5	3	183
AP Computer Science	3-5	3	321	3-5	3	200	4-5	4	1014	3-5	4	260/L	3-5	4	180
Cost Per Credit Hour		\$590			\$320			\$750			\$337			\$363	
AP Savings		\$10,620			\$4,480			\$12,000			\$5,392			\$6,897	
Credit Hrs. Earned		18			14			16			16			19	

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Science

Required Science Courses:

Integrated Science

Course # 303091-1

Grade Level: 9

Credit: 1

Fee: \$15.00

The introductory science course addresses topics in physical and Earth space sciences. This course stresses problem solving, mathematical, and critical thinking skills, both independently and cooperatively. Physical science topics include: Energy/Energy Transformations, Forces and Motion, and Electricity. Space science topics include the Earth's interaction with the solar system and gravitational forces. Students will continue to develop a deeper understanding of the processes of scientific inquiry and how these processes use evidence to support conclusions based on logical reasoning. Students investigate ways in which science and technologies combine to meet human needs and solve human problems. Students will trace the historical development of scientific theories and ideas, explore scientific theories and develop their scientific literacy to become knowledgeable citizens.

Earth/Space Science

Course # 304611-1

Grade Level: 11-12

Credit: 1

Prerequisite: Biology and Chemistry

Fee: \$15.00

This course is a hands-on exploration of Earth/Space topics that satisfies a science graduation requirement. Areas of study will include: Earth chemistry, minerals, rocks, rock record, plate tectonics, deformation of crust, volcanoes, earthquakes, weathering and erosion, river systems, groundwater, glaciers, erosion, oceans, meteorology, planets, asteroids, comets, meteors, sun, stars, galaxies, and the universe. Students will use evidence to evaluate and analyze theories related to many of the components of the universe, including those listed above. Students will be able to apply concepts to real-world situations through inquiry and student-centered labs.

Biology I Honors (*Honors Weighted*)

Course # 302601-H

Grade Level: 9*

Credit: 1

Recommended: A or B+ in 8th grade Science, A or B+ in Algebra I

Fee: \$15.00

*(10th grade year with recommendation of integrated science teacher)

This **rigorous** course is designed to address the same concepts as a regular biology course with a greater depth of knowledge. It covers the primary aspects of the discipline, including cells and their functions, introductory biochemistry, genetics, animals, plants, and the relationships among organisms, ecology, and evolution. Additionally, this course explores the general foundations and practices of science and the cross cutting concepts that relate to all sciences. Scientific inquiry approaches require students to apply critical-thinking skills and statistical methods to collect and analyze sets of data to determine trends and relationships among them. Students will be required to read and carry out other research while learning the language of scientific study. Students are required to write and speak formally and prepare organized, and well-written assessments. Written and verbal communication skills as well as organizational skills are stressed.

The course is designed for students who plan to complete the science honors sequence and prepare for advanced placement science as well as a post-secondary education. A minimum of 20 minutes a night should be devoted to study and course work. This course recommended if student plans to take AP Biology.

Agri-Biology

Course # 030713

Grade Level: 10

Credit: 1

Fee: \$15.00

Career Area: Animal Systems, Plant Systems, Agri-Biotechnology

This course **does NOT** meet NCAA eligibility requirements for Science.

For students who took Principles of Ag. Science and Tech. during the freshman year, Agri-Biology will be your next Science course. Agri-Biology is a one-credit interdisciplinary course that meets the "life science requirement" for science credit. This course may count as one of the three required credits in Science for high school graduation. Agri-Biology uses agricultural context to present the required life science content for assessment, as outlined in the Program of Studies. As students study practical agricultural concepts, they apply scientific ways of thinking and working to real-life problems. The agriculture teacher and science teacher work together in planning and evaluating the course.

This course is also recommended for students who took Integrated Science as a freshman and plan to pursue a career directly after high school, attend a trade school for a non-science related program, or join the military.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Biology I

Course # 302601-1

Grade Level: 10

Credit: 1

Prerequisite: Integrated Science

Fee: \$15.00

This course covers the primary aspects of the discipline, including cells and their functions, introductory biochemistry, genetics, animals, plants, and the relationships among organisms, ecology, and evolution. In addition it explores the general foundations and practices of science, teaches the basic processes of scientific inquiry, and emphasizes the importance of mathematics and measurement. Students will apply statistical methods to collect and analyze sets of data to determine trends and relationships among them. Students will be required to read and carry out other research while learning the language of scientific study. Students are required to write and speak formally and prepare well-written, organized, and complete assessments. Written and verbal communication skills as well as organizational skills are stressed.

AP Biology (*AP Weighted*)

Course # 302646-1

Grade Level: 11-12

Credit: 1

Recommended: 87% or higher in Honors Biology and 87% or higher in Honors Chemistry

Fee: \$15.00

The AP Program in Biology is an introductory, college-level course designed for biology majors. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, genetics, information transfer, ecology and interactions. Through intensive study, labs, and coursework, students will investigate and apply key scientific practices to analyze data, develop explanations and predictions of natural phenomena, and acquire and integrate knowledge into new applications. Students will develop advanced reasoning, inquiry, critical thinking and reading skills, and writing skills appropriate for college level classes. **Students signing up for this course should expect a rigorous nightly workload, homework over long breaks, and summer work.** Students will need to be able to devote **at least** one hour of independent study per school night and an additional time for independent study on weekends. This class is designed to prepare students for the AP exam given in May in which students could earn possible college credit.

AP Environmental Science (*AP Weighted*)

Course #304622

Grade Level: 11-12

Credit: 1

Recommended: Biology, Chemistry, and at least 1 year of Algebra

Fee: \$15.00

The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, chemistry, and geography. Topics of study include Earth systems and resources, ecosystems and energy flow, population biology, land and water use, energy resources and consumption, pollution, agriculture, conservation and global change.

Introduction to Chemistry and Physics

Course #304058

Grade Level: 11-12

Credit: 1

Recommended: Integrated Science and Biology/Agri-Biology

Fee: \$15.00

This lab-based course is designed for career bound students and serves an introduction to both chemistry and physics. Emphasis is placed on inquiry-style learning and development of science skills. Topics covered in chemistry include atomic structure, the periodic table, bonding, and chemical reactions. Topics covered in physics include motion, forces, momentum, energy, and waves.

Chemistry

Course # 304521-1

Grade Level: 10-11

Credit: 1

Prerequisite: Biology

Fee: \$15.00

This course is designed to familiarize students with the science processes, skills, and understandings related to a wide range of topics in chemistry. In this course, students will gain knowledge of the periodic table, chemical bonding and chemical reactions as well as the composition of matter and the chemical changes it undergoes. Additional topics covered in the class include energy, nuclear chemistry, rates of reactions, and equilibrium. Scientific inquiry approaches require students to apply critical-thinking skills. Emphasized areas of skill development will include laboratory, quantitative, communication, and independent thinking. Strong mathematical skills are required.

Chemistry Honors (*Honors Weighted*)

Course # 304521-H

Grade Level: 10-11

Credit: 1

Recommended: 87% or higher in Honors Biology, Alg. II with 87% or higher

Fee: \$15.00

This course is designed to familiarize students with the science processes, skills, and understandings related to a wide range of topics in chemistry. In this course, students will gain knowledge of the periodic table, chemical bonding and chemical reactions as well as the composition of matter and the chemical changes it undergoes. Additional topics covered in the class include energy, nuclear chemistry, rates of reactions, and equilibrium. Scientific inquiry approaches require students to apply critical-thinking skills. Emphasized areas of skill development will include

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

laboratory, quantitative, communication, and independent thinking. Strong mathematical skills are required. This course is designed for students who plan to complete the science honors sequence and prepare for advanced placement science as well as a post-secondary education. While the standards covered in this course are the same as regular chemistry, the depth of understanding and rigor are increased significantly.

AP Chemistry (*AP Weighted*)

Course # 304526-1

Grade Level: 10-12

Credit: 1

Recommended: 87% or higher in Honors Chemistry

Fee: \$15.00

The AP Program in Chemistry is a one year college level course that will encompass a broad range of topics such as atomic theory and structure, chemical bonding, gases, liquids, and solids, solutions, various types of reactions, stoichiometry, equilibrium, kinetics, and thermodynamics. This course will also include laboratory activities as a major part of the course. Students signing up for this course should expect a rigorous workload, and **summer work that will be collected the first day of class. The summer assignment will take approximately 8 hours to complete and will require a computer with internet access.** Students will need to devote at least one hour of independent study per school night. This class is designed to prepare students for the AP exam given in May in which students could earn possible college credit.

Physics Honors (*Honors weighted*)

Course #304821-1H

Grade Level: 10-12

Credit: 1

Pre-requisite: Algebra II (if taken 11th or 12th grade)

Pre-requisite or Co-requisite: Algebra II H (if taken 10th grade)

Students study velocity, acceleration, gravity, Newton's Laws of Motion, vectors, momentum, energy, circular motion, rotation, relativity, thermodynamics, sound, light, electricity and magnetism. Students can expect to apply content to laboratory procedures and safety, scientific thinking and reasoning, problem solving, hands-on application projects and research-based/application projects. Content requires strong math and problem-solving skills.

AP Physics C: Mechanics (*AP weighted*)

Course #304825-1

Grade Level: 10-12

Credit: 1

Co-requisite: Calculus AB or BC

This course is the equivalent to a first-semester college course in calculus-based physics. Engineers, physicists, and other physical science majors require calculus-based physics to obtain college credit. Students will learn about kinematics, Newton's laws of motion, work, energy, power, momentum, circular motion, rotation, oscillations, and gravitation. Approximately 20% of time will be spent doing lab activities. Students must have a firm grasp of mathematical concepts to succeed. Calculus concepts will be reviewed or learned as needed. This course will require ½ hour of independent study each night and is designed to prepare students for the AP exam in May.

AP Physics C: Electricity and Magnetism (*AP weighted*)

Course #304826-1

Grade Level: 11-12

Credit: 1

Pre-requisite: AP Physics C: Mechanics

Pre or Co-requisite: Calculus AB or BC

NOTE: This course is only offered alternating years.

AP Physics C: Electricity and Magnetism is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course. Approximately 20% of time will be spent doing lab activities. Students must have a firm grasp of mathematical concepts to succeed. Calculus concepts will be reviewed or learned as needed. This course will require ½ hour of independent study each night and is designed to prepare students for the AP exam in May.

Science Electives:

Anatomy/Physiology Honors (*Honors Weighted*)

Course # 302631-2

Grade Level: 11-12

Credit: 1

Recommended: 87% or higher in Honors Biology and 87% or in Honors Chemistry recommended

Fee: \$15.00

This is an introductory course in human anatomy and physiology stresses the fundamental principles of the body systems. It is a fast paced course that covers the entire human body. An extensive study of the human systems through dissections is required. This course is geared toward students who are interested in healthcare careers, including nursing.

This is an elective science course. It will not satisfy the science graduation requirement.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Forensic Science I**Course # 302616-1****Grade Level- 11-12****Credit: .5****Prerequisite: Integrated Science I, Biology****Prerequisite or Co requisite: Chemistry****Fee: \$15.00**

This elective science course will introduce you to the application of science to the criminal and civil laws that are enforced by police agencies in a criminal justice system. 85% of the class will be based on labs with lab write-ups and researching various aspects of forensics. 15% of class will be based on lecture and notes. This course is intended to be interactive and experimental. You will be using experimental evidence, assessing crime scenes, and solving "crimes" using inquiry based learning. In this course you will untangle the evidence and solve the crime using inquiry based investigations. Careers including Blood Pattern Analyst, Medical Examiner, and Forensic entomologist, coroner, and surgeon autopsies will be investigated. The decomposition of an animal will be studied first-hand in this section. Due to the **high volume** of lab work, **written and verbal communication** skills as well as organizational skills are stressed.

This is an elective science course. It will not satisfy the science graduation requirement.

Forensic Science II**Course # 302616-2****Grade Level: 11-12****Credit: .5****Prerequisite: Integrated Science I, Biology****Prerequisite or Co requisite: Chemistry (FORENSIC SCIENCE I IS NOT REQUIRED TO TAKE THIS COURSE)****Fee: \$15.00**

This elective course will continue to expose you to the application of science to the criminal and civil laws that are enforced by police agencies in a criminal justice system. Labs are the primary focus of this course including an autopsy of a victim pig will be performed in this section. It is intended to be experimental and interactive. You will be using experimental evidence, assessing crime scenes, and solving "crimes" using inquiry based learning. **This can be taken without taking Forensics I.**

Due to the **high volume** of lab work, **written and verbal communication skills** as well as organizational skills are stressed. Several projects will be required, including an autopsy of a pig by student groups.

This is an elective science course. It will not satisfy the science graduation requirement.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

SCIENCE AT COOPER

Students are required by the Kentucky Department of Education to take 3 approved science classes with a lab. It is highly recommended for college bound students to take a fourth science as it is deemed essential by most colleges and universities to help prepare them for the core required science courses. To help students select the best sequence of science courses to take, the pathways below have been developed. When choosing a pathway, it is important to consider the following:

- Do you plan to pursue a career directly after high school?
- Are you considering a trade school for a non-science related program?
- Do you plan to join the military?
- Are you an athlete who is considering playing a sport at the college level?
- Do you plan to attend a traditional college or university?
- If you do plan to attend college, do you think you will major in a science-related field?

Career Bound Pathway

This course sequence is recommended for students who plan to pursue a career directly after high school, attend a trade school for a non-science related program, or join the military. **This pathway does not satisfy the minimum requirements for NCAA eligibility for athletes.**

Integrated Science → Agri-Biology → Intro to Chemistry & Physics → Earth/Space (Suggested)

College Bound Pathway

Option A: Regular - This course sequence is recommended for students who plan to attend a traditional college or university and pursue a non-science major.

Integrated Science → Biology → Chemistry → Additional Science Course

Option B: Honors - This course sequence is recommended for students who plan to attend a traditional college or university and are considering a science-related major. *In order to take Biology Honors, 9th grade students must have taken Algebra 1 and earned an A or B+.*

Biology Honors → Chemistry Honors → Honors or AP Science Course → Additional Honors or AP Science Course

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Below is a comprehensive list of all science courses offered at Cooper High School. Elective options do not count towards the required 3 courses.

Regular Science Courses

Integrated Science
Agri-Biology
Biology
Intro to Chemistry & Physics
Chemistry
Earth/Space

Honors Science Courses

Biology Honors
Chemistry Honors
Physics Honors

Elective Option

Anatomy/Physiology Honors

AP Science Courses

AP Biology
AP Chemistry
AP Physics C: Mechanics
AP Physics C: Electricity & Magnetism
(offered alternating years)
AP Environmental Science

Elective Options

Forensics I
Forensics I

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Cooper High School AP Credit Hours and Savings Opportunities*

*check individual school websites for details

AP Class	UK UNIVERSITY OF KENTUCKY			UNIVERSITY OF LOUISVILLE It's Happening Here.			Murray MURRAY STATE UNIVERSITY™			EASTERN KENTUCKY COLONELS			UC UNIVERSITY OF Cincinnati		
	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course
AP Biology	3-5	3-9	102, 103, 148, 152	3-5	3	102	3-5	7-11	101, 115, 216	3-5	3-8	100, 111, 112	3-5	4-8	1021, 1081, 1082
AP Physics 1	3-5	3	151	3-5	4	221/222	3-5	3	130	3-5	3	101	3-5	5	2001/2001L
AP Chemistry	3-5	4-8	105, 107, 111	3-5	3-6	201, 202	3-4	4	101, 105	3-5	4	101, 111, 112	3-5	4-10	1030, 1040, 1041
Cost Per Credit Hour		\$401			\$406			\$370			\$314			\$465	
AP Savings		\$8,020			\$5,278			\$6,660			\$4,710			\$10,695	
Credit Hrs. Earned		20			13			18			15			23	

AP Class	THOMAS MORE UNIVERSITY			M MOREHEAD STATE UNIVERSITY			TRANSYLVANIA UNIVERSITY FOUNDED 1790			NKU NORTHERN KENTUCKY UNIVERSITY			WKU		
	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course
AP Biology	3-5	6	101, 102	3-5	3-4	105, 171	4-5	4	1044	3-5	4	120, 150	3-5	3-8	120, 121, 122, 123
AP Physics 1	3-5	3	121	3-5	3	123	4-5	4	1014	3-5	4	110/L	3-5	3	101
AP Chemistry	3-5	6	111, 113	3-5	4	101, 111	4-5	4	1055	3-5	4-8	120, 121	3-5	3-10	Up to 8 courses
Cost Per Credit Hour		\$590			\$320			\$750			\$337			\$363	
AP Savings		\$8,850			\$3,520			\$9,000			\$5,392			\$7,623	
Credit Hrs. Earned		15			11			12			16			21	

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Social Studies

Required History Classes:

AP Human Geography (AP Weighted)

Course # 450712-1

Grade Level: 9-12

Credit: 1

Recommended: A/B+ in Social Studies and English

Recommended: Cert READING score of 18 or higher

AP Human Geography is a one year college level course that will allow students to develop critical thinking skills through the understanding, application and analysis of the fundamental concepts of Geography. In AP Human Geography students are introduced to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students will also study the political and economic institutions in the major countries of the world. Students will prepare for the AP examination in May which will give them the opportunity to earn college credit. Students will be required to manage their time to read a college level textbook, complete reading guides, as well as participate in class discussions.

Geography

Course # 450709-1

Grade Level: 9-12

Credit: 1

Students will relate distant places and culture to their own by examining the physical and human geography of the different regions in our world. Students will learn the methods and tools used by geographers to gain understanding of how geography has and continues to impact humans. Students will explore the elements of culture that shape the different regions, allowing them to better identify with the world in which they live. The government and economic systems of these regions will also be examined in an effort to understand and interpret past and current events. The physical and human geographical knowledge gained by this course will help to prepare students for future Social Studies disciplines.

**Students may take AP Human Geography in place of Geography.*

AP European History (AP Weighted)

Course # 450844-1

Grade Level: 10- 12

Credit: 1

Recommended: Cert READING score of 20 or higher

AP European History is designed to be the equivalent of a two-semester introductory college or university European history course. In AP European history, students investigate significant events, individual, developments and process in four historical periods from approximately 1450 to present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity. Students will be required to manage their time to read a college level textbook, complete reading guides, as well as participate in class discussions. The course content is based off of an AP curriculum and students are strongly encouraged to take the AP examination in May, which they can earn college credit.

World History

Course # 450835-1

Grade Level: 10

Credit: 1

Prerequisite: Geography or AP Human Geography

This course will focus on European History from 1500 to the Cold War. This class will help students develop note taking and critical reading skills, and will show them how to analyze primary source documents.

AP US History (AP Weighted)

Course # 450814-1

Grade Level: 11-12

Credit: 1

Recommended: Cert READING score of 22 or higher

AP U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. History course. In AP U.S. History, students investigate significant events, individual's developments and processes in nine historical periods from approximately 1492 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources' making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society. Students will be required to manage their time to handle outside reading assignments, as well as participate in class discussions. Students are strongly encouraged to take the AP test in May, for which they may earn college credit.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

U.S. History

Course # 450809-1

Grade Level: 11

Credit: 1

Prerequisite: World Civ. or AP European History

United States History will survey the history of the U.S. from the Gilded Age to the present day. This course will analyze topics such as the United States' role as a world power, investigation of the industrial revolution, and cultural advances of the U.S.

History Electives:

America's Modern Wars

Course # 450878-2

Grade Level: 10-12

Credit: .5

Prerequisite: Geography or AP Human Geography

This course will study America's involvement in conflicts, beginning with the aftermath of World War II, and will cover the Korean War, Vietnam, through the Persian Gulf War and the War on Terror. In studying the conflicts, emphasis will be placed on foreign policy, military strategy, and the history behind these wars. This class will use group discussions and projects, personal research, and film to cover this material. Students will leave the class having a better understanding of how and why conflicts have shaped America's history.

Contemporary U.S. History (formerly American Pop Culture)

Course # 450878-1

Grade Level: 10-12

Credit: .5

This course examines American culture and current events by the decade, from the 1940's to the 2000s, through some of its most popular cultural forms - film, music, magazines, television, and sports. This class will make history come alive as students explore the pop culture and major events that defines each decade.

AP Psychology (AP Weighted)

Course # 459902-1

Grade Level: 11 -12

Credit: 1

Recommended: A/B in Biology or last Science course/Honors English

The purpose of this college level course is to introduce students to a more in-depth systematic and scientific study of the behavior and mental processes of human beings. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major sub fields within psychology. Students also learn about the methods psychologists use in their science and practice. The aim of the A.P. course is to provide the student with a learning experience equivalent to that obtained in most college introductory courses, and to prepare them for the AP test given in May from which students may earn college level credit.

Psychology

Course # 459901-1

Grade Level: 11-12

Credit: 1

This course introduces Psychology as the study of human behavior and mental processes. The topics addressed include the following: psychology's philosophical origins, the workings of the mind and body, human development, state of consciousness, sensation and perception, learning and the cognitive process, thinking and language, motivation and emotions. This course also focuses on defining abnormal behavior and its basic issues to introduce psychological disorders. Students will gain an understanding of anxiety disorders, mood disorders, personality disorders and more. These topics will be explored through personal surveys and questionnaires, videos, class demonstrations and more. Students will gain a basic understanding of psychology for future study and/or personal interest.

AP US Government & Politics (AP Weighted)

Course #451030-1

Grade Level: 12

Credit: 1

Prerequisite: US History

This course is an intensive study of the formal and informal structures of the government and the processes of the American political systems, with an emphasis on policy-making and implementation. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U. S. government and politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes in government and politics. The concepts and specific topics examined in this course are those that may appear on the AP exam. Students may earn college credit.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Sports, Society, and Culture

Course #003001

Grade: 9-12

Credit: .5

This course will examine the history of sports and its relationship to economic, political and cultural forces that exist within society. This course will use the world of sports to understand American history and culture. We will answer questions like why diverse groups still struggle for equality in sports, what role does the media play in mainstream sports, and how wars have impacted sports in America. This will help to contextualize their knowledge of both sport and history and help them to better make connections between their lives, historical events, and the historical content they learn in their core courses.

History Through Film

Course #003003

Grade: 9-12

Credit: .5

Students will study historical events and the films that portray them. Students will then compare and contrast the historical event and the film portrayal. Students will learn how bias and point of view effect how the story is told. Students will also look at the history of Hollywood and how the motion picture production industry has changed the landscape of how information is disseminated and how it affects public opinion.

History and Literature of the Biblical Era: Hebrew Scriptures and the New Testament

Course # 459813-1

Grade Level: 9-12

Credit: 1*

Prerequisite: None

*(Can fulfill required Arts and Humanities credit)

This course does NOT meet NCAA eligibility requirements for core course credits.

This course focuses on the historical impact and literary style from texts of the New Testament era, including the Hebrew Scriptures. Topics may include historical background and events of the period, the customs and cultures of the peoples and societies, and the influence of the texts of law, history, government, literature, art, music, customs, values, culture and events, including recent and current events

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Cooper High School AP Credit Hours and Savings Opportunities*

*check individual school websites for details

AP Class	UK UNIVERSITY OF KENTUCKY			UNIVERSITY OF LOUISVILLE It's Happening Here.			Murray MURRAY STATE UNIVERSITY™			EASTERN KENTUCKY COLONELS			UC UNIVERSITY OF Cincinnati		
	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course
AP U.S. History	3-5	3-6	108, 109	3-5	3-6	211, 212	3-5	3-6	221, 222	3-5	3-6	202, 203	3-5	6	1001, 1002
AP U.S. Govt.	3-5	3	101	3-5	3	201	3-5	3	140	3-5	3	101	3-5	8	1010
AP Euro. History	3-5	3-6	104, 105	3-5	3	102	3-5	3	201	3-5	3-6	231, 232	3-5	6	1005, 1006
AP Human Geography	3-5	3	172	3-5	3	102	3-5	3	elective	3-5	3	220	3-5	3-6	1004, 1005
AP Psychology	3-5	4	100	3-5	3	201	3	3	180	3	3	200	3-5	3	1001
Cost Per Credit Hour		\$401			\$406			\$370			\$314			\$465	
AP Savings		\$8,822			\$7,308			\$6,660			\$6,594			\$13,485	
Credit Hrs. Earned		22			18			18			21			29	

AP Class	THOMAS MORE UNIVERSITY			MOREHEAD STATE UNIVERSITY			TRANSYLVANIA UNIVERSITY FOUNDED 1780			NKU NORTHERN KENTUCKY UNIVERSITY			WKU		
	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course
AP U.S. History	3-5	6	114, 115	3-5	6	202, 220	4-5	4	1164	3-5	3-6	102, 103	3-5	3-6	elective
AP U.S. Govt.	3-5	3	205	3-5	3	141	4-5	4	1014	3-5	3	100	3-5	3	110
AP Euro. History	3-5	6	203, 204	3-5	3	201	4-5	4	1024	3-5	3-6	100, 101	3-5	3-6	elective
AP Human Geography	3-5	3	elective	3-5	3	100	4-5	4	1044	3-5	3	100	3-5	3	216
AP Psychology	3-5	3	105	3-5	3	154	4-5	4	1004	3-5	3	100	3-5	3	100
Cost Per Credit Hour		\$590			\$320			\$750			\$337			\$363	
AP Savings		\$12,390			\$5,760			\$15,000			\$7,077			\$7,623	
Credit Hrs. Earned		21			18			20			21			21	

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

The Arts

Fine Arts Requirement

The courses in the Fine Arts Department provide the student with a variety of elective and required courses. These courses instruct in the areas of visual arts, instrumental and vocal music, foreign languages, dance and drama. Each student at Cooper will be required to complete an arts course for high school graduation. Components of Visual and Performing Arts will be embedded in world language, including Spanish, French and German, as well as World Civilization and PE 1. In addition to embedded components, students must earn a credit through one of the options below.

Each student at Cooper High School must earn one credit with a visual or performing arts component or a historical review of the arts. Several choices will allow students the freedom to pursue an area of particular interest in the arts and to also tailor their high school schedule to meet their overall needs.

Each student must complete one of the following in order to fulfill the Visual and Performing Arts graduation requirement.

A full-credit or combination of ½ credits, in one of the fine arts areas:

Music: Band – Full Year, Choir – Full Year, History of Rock and Roll

Art: Art I, Art II, Art III, AP Art, Photography, Visual Comm. Design, Ceramics, Drawing and Painting, HAVPA

Drama: Introduction to Theatre, Theatre: Acting/Performance

Humanities: Film Studies, 3rd and/or 4th year of World Language (each year = .5 credit), Hebrew Scriptures and the New Testament, Graphic Novels

Dance: Fundamentals of Dance

Art

High School Survey Course of the Visual and Performing Arts

Course # 500111-1

Grade Level: 9-12

Credit: 1

This course meets the History and Appreciation of Visual and Performing Arts requirement for graduation from high school. It is the study of the humanities through the arts (dance, drama, music, and visual art). Also, it addresses the structures, humanities, purposes, creative processes and interrelationships of the visual and performing arts.

Comprehensive Visual Arts I (Modified – Grade Level) (formerly Visual Arts I)

Course # 500711-1

Grade Level: 9-12

Credit: .5 (Visual and Performing Arts)

Fee: \$15.00

This course is a project based class and is geared toward students who are considering a career in the visual arts. The course will provide studies in both two-dimensional (design, painting, printmaking) and three-dimensional (ceramics, sculpture) artistic media. Students will study basic art concepts, such as the elements and principles of design, compositional theories, color theory, perspective drawing, and proportion. Students will engage in art history, aesthetic, and art analysis activities.

Drawing/Painting

Course # 500712-1

Grade Level: 9-12

Credit: .5 (Visual and Performing Arts)

Prerequisite: Visual Art I

Fee: \$15.00

Through the act of drawing we learn to see and interpret the world around us. This practical drawing course is designed to develop observational skills and a personal visual language to enable the analysis, interpretation and communication of visual ideas and experiences. The concepts that are covered in this course provide a foundation for drawing itself, and will also benefit other visual art disciplines. The course will cover a range of techniques and media and include still life, portraiture, landscape, architectural drawing, life drawing, and conceptual drawing. Media included are charcoal, pencil, ink, colored pencil, pastel, watercolor, and others. The primary goals are to learn to judge proportion and to depict those observations in drawings that demonstrate an understanding of depth, form and space. Verbal skills are developed through critique and class discussion.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Visual Art-Photography

Course # 500611-1

Grade: 9-12

Credit: .5 (Visual and Performing Arts)

Fee: \$15.00

Prerequisite: Visual Art I and Visual Communication Design

Students will learn fundamental photographic skills including digital capture, manipulation, and output. For the processing and enhancement of digital photographs, students will learn the basics of Adobe Photoshop and Adobe Lightroom. These digital skills and tools for the making of photographs will be taught within the context of the aesthetics of photography. ***(Students must have their own digital cameras as a requirement for this course).***

Visual Communication Design

Course # 500720-2

Grade: 9-12

Credit: .5 (Visual and Performing Arts)

Fee: \$15.00

This course introduces students to graphic design as a form of visual communication through the use of type, image, form, and color. Focus will be upon the study of design, layout, and conceptual elements. **A variety of 2-dimensional media will be addressed including printmaking, drawing, and computer design software.** Projects will include posters, photography, advertisements, and logos. Software knowledge and teaching will include Adobe Photoshop and Illustrator.

Ceramics/Pottery

Course # 500212-1

Grade: 10-12

Credit: .5 (Visual and Performing Arts)

Prerequisite: Visual Art I

Fee: \$15.00

This course is a project based class that will provide an introduction to ceramic art. Students will explore the essential hand building methods of pinch, coil, and slab construction. Students will become familiar with glazing and other surface treatment techniques, creating functional and decorative ceramic art that is thoughtful, compelling, and aesthetic. Students will also engage in art history, aesthetic, and art analysis activities.

Comprehensive Visual Art- Art Portfolio II

Course # 500714-2

Grade Level: 9-11

Credit: 1

Prerequisite: Visual Art I or equivalent introductory Arts course with a grade of "B" or higher and teacher recommendation

Fee: \$15.00

This course is for students who desire to pursue art studies after high school. Students will create work that clearly demonstrates new technical skills, increasing conceptual thinking and reflecting their personal interests. Individual critiques and planned group activities will help each student achieve at a competitive level. This course provides students with the ability to begin to determine and produce artworks in their own specialization in art. Student will use the elements and principles, language, materials, and processes to produce various kinds of visual arts at an accomplished level. Students will continue to develop their own creative styles. Students will continue to learn about the production of art, study of the structures, purposes, careers and art history. Emphasis is placed on creating, presenting, responding and connecting.

Comprehensive Visual Arts III Honors (*Honors Weighted*)

Course # 500711-3H

Grade Level: 10-12

Credit: 1

Prerequisite: "A" or "B" in at least 2 arts classes and teacher recommendation

Fee: \$15.00

This course will provide the foundation for taking AP Studio Art. Students will develop a high-quality portfolio based on the AP Art & Design portfolio requirements. Students will be exposed to projects to help them select the 2-D Portfolio (graphic and digital art), Drawing Portfolio (fine art), or 3-D Portfolio (sculptural) for their senior year. Students will continue to develop their own creative styles. Students will continue to learn about the production of art, study of the structures, purposes, careers and art history. Emphasis is placed on creating, presenting, responding and connecting.

AP Studio Art 2-D Design (*AP Weighted*)

Course #500722-1

Grade: 11-12

Credit: 1

Prerequisite: "A" or "B" in Visual Art III Honors & Teacher recommendation

Fee: \$15

A college-level course designed for students who are seriously interested in exploring and expressing themselves through photography and digitally enhanced visual art. Students will learn about design, technique, media, criticism, aesthetics and art history in order to develop mastery in concept, composition and execution of their own artistic ideas.

AP Studio Art 3-D Design (*AP Weighted*)

Course #500723-1

Grade: 11-12

Credit: 1

Prerequisite: "A" or "B" grade Visual Art III Honors & Teacher recommendation

Fee: \$15.00

A college-level course designed for students who are seriously interested in exploring and expressing themselves through three-dimensional visual art. Through the course, students will learn about design, technique, media, criticism, aesthetics and art history in order to develop mastery in concept, composition and execution of their own artistic ideas, accomplished through the lens of sculptural/three-dimensional work.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Choral Music

Men's Choir

Course # 500925-04

Grade Level: 9-12

Credit: 1

This course is designed for men in grades 9-12 who wish to participate in choir at Cooper. In a relaxed, no-stress environment, the men of Cooper will develop choral and vocal technique and music literacy through high quality choral repertoire from a variety of genres and gain experience in the thrill of performance. The Men's Ensemble will participate in a number of performances throughout the year, both as a stand-alone group and coupled with the Advanced Women's Ensemble. Grades will be based on daily rehearsal technique, theory lessons, quizzes, mandatory attendance at all performances and a final exam.

Treble Choir

Course # 500925-15

Grade Level: 9-12

Credit: 1

This is a beginning level choir intended as an introduction to choral singing at Cooper High School. Students will study music from a variety of time periods and cultures and will perform at least four concerts throughout the year. Students will develop vocal technique, sight reading, ensemble, and audition skills that will prepare them to move into the upper level choirs. ALL ladies who are freshmen or have not auditioned should sign up for this introductory course.

Women's Ensemble I Honors (*Honors Weighted*)

Course # 500926-2H

Grade Level: 10-12

Credit: 1

Prerequisite: audition

The Honors Women's Choir is an advanced, auditioned choir open to 10th-12th grade ladies. Members will be chosen **by audition** for this course. Students will develop vocal technique, music reading ability, and aural skills through the preparation and performance of a variety of advanced music. Music theory, literature, history, appreciation, and vocal technique are taught at an advanced level. Grades will be based on daily rehearsal technique, theory lessons, quizzes, mandatory attendance at all performances and a final exam.

Chamber Choir (*Honors Weighted*)

Course # 500925-11H

Grade Level: 10-12

Credit: 1

Prerequisite: audition

This is an advanced, auditioned choir designed for 10th - 12th grade students who have been in the choral program for at least one year. Members will be chosen **by audition** for participation in this group. In this course students will develop vocal technique, audition and music literacy at an advanced level. Performance opportunities will be numerous and will occur as a stand-alone ensemble and coupled with the Men's Ensemble. Grades will be based on daily rehearsal technique, theory lessons, quizzes, mandatory attendance at all performances, and final exam.

AP Music Theory (*AP Weighted*)

Course # 500929-1

Grade Level: 11-12

Credit: 1

Prerequisite: At least one year in a performing ensemble at Cooper OR course instructor recommendation

AP Music Theory is an advanced level course designed to engage students in learning activities that will help them to achieve the outcomes assessed by the College Board's Advanced Placement Music Theory Examination. The AP Music Theory course is designed to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. These abilities will be developed through various listening, performance, written, creative, and analytical exercises. Although this course focuses on music of the Common Practice Period (1600-1900), materials and processes found in other styles and genres are also studied.

Instrumental Music

Music- General Band

Course # 500913-1

Grade Level: 9-12

Credit: 1

Prerequisite: Audition

This class involves music theory, music history, and the correlation of music to art. Students will perform on their instruments. Grades will be based on daily rehearsal technique, mandatory attendance at all performances, and periodic assessments including a final exam. Students must have the recommendation of their Middle School Director or may be admitted by audition only with the High School Band Director.

Wind Ensemble II Honors

Course # 500918-2H

Grade Level: 10-12

Credit: 1

Prerequisite: Audition

This rigorous course involves music theory, music history, and the correlation of music to art. Students will perform on their instruments at a more advanced level. Grades will be based on daily rehearsal technique, mandatory attendance at all performances, and periodic assessments including a final exam. Enrollment in this ensemble is by audition only.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Percussion Ensemble**Course # 500921-2****Grade: 9-12****Credit: 1****Prerequisite: Audition**

This course will offer students the opportunity to develop their skills in all areas of percussion including rudimental drumming, pitched and non-pitched concert percussion, and ethnic instruments. The students will perform various types of percussion ensemble literature as well as perform with the Concert Band and Wind Ensemble. Practice outside of the classroom is essential in order to be successful. Students must have the recommendation of their Middle School Director or may be admitted by audition only with the High School Band Director.

AP Music Theory *(AP Weighted)***Course # 500929-1****Grade Level: 11-12****Credit: 1****Prerequisite: At least one year in a performing ensemble at Cooper OR course instructor recommendation**

AP Music Theory is an advanced level course designed to engage students in learning activities that will help them to achieve the outcomes assessed by the College Board's Advanced Placement Music Theory Examination. The AP Music Theory course is designed to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. These abilities will be developed through various listening, performance, written, creative, and analytical exercises. Although this course focuses on music of the Common Practice Period (1600-1900), materials and processes found in other styles and genres are also studied.

History of Rock-N- Roll**Course # 500912-4****Grade Level: 9-12****Credit: .5 (Visual and Performing Arts)**

This course explores the development of Rock-N-Roll from its Rhythm and Blues roots to its evolution throughout the second half of the 20th Century. Many styles of rock will be presented, discussed and analyzed. Students registering for this course must be open to performing these musical styles on instruments in the classroom as this will be an important component of the course.

Music in New Media**Course # 500912****Grade Level: 9-12****Credit: .5 (Visual and Performing Arts)**

This course aims to give students practical knowledge and skills of music making in the 21st century. By focusing on three major trends, Music in Movies, Music in Video Games, and Recording Applications, students will be introduced to three potential career fields, and the tools they would need to be successful producing music.

Theatre**Introduction to Theatre****Course #500511-1****Grade Level: 9-12****Credit: .5*****Prerequisite: None*****(Can fulfill .5 required Arts and Humanities credit)**

Theatre courses are intended to promote students' experience and skill development in one or more aspects of theatrical production. Initial courses are introductory in nature, while more advanced courses focus on improving technique, expand students' exposure to different types of theatrical techniques and traditions, and increasing their capacity to participate in public performances. Career opportunities will be addressed.

Theatre: Acting/Performance**Course # 500513-1****Grade Level: 9-12****Credit: .5*****Prerequisite: Introduction to Theatre*****(Can fulfill .5 required Arts and Humanities credit)**

Theatre courses are intended to promote students' experience and skill development in one or more aspects of theatrical production. Initial courses are introductory in nature, while more advanced courses focus on improving technique, expand students' exposure to different types of theatrical techniques and traditions, and increasing their capacity to participate in public performances. Career opportunities will be addressed.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

World Languages

All students who plan to attend a four year college are required to take at least *two credits of the same world language* to meet the precollege curriculum.

Before enrolling in a world language class, students must have earned a B average or higher in English or achieve junior status. This will assure the average English student of more confidence and greater success in world language study.

French

HS WL French I

Course # 160408-1

Grade Level: 9-12

Credit: 1

Recommended: B average in English

The beginning course of French integrates the five goals of the national standards—communication, cultures, connections, comparisons and communities. Students will engage in interpersonal, interpretive and presentational activities within cultural contexts. Students will also create products to demonstrate essential knowledge and skills in French.

HS WL French II

Course # 160409-1

Grade Level: 10-12

Credit: 1

Prerequisite: French 1

This course continues to challenge and motivate the foreign language learner with opportunities to learn more about French culture, and make connections to other subject areas. In addition, students will acquire a deeper understanding of the language and be able to better express one's self in the target language. The emphasis will be on authentic written and oral proficiency.

The following 2 courses are college credit bearing courses. In each class students can earn 3 college credit hours in addition to high school credit. Prerequisites established by NKU, placement test and acceptance into the program (through an application process) is required. Dual Enrollment fees apply.

NKU French 101 *(AP weighted) (Dual Enrollment)*

Course # 160430-NKU

Grade Level: 11-12

Credit: 1

Prerequisite: French II at RCHS and fulfillment of NKU Dual Enrollment requirements

This class is a review and extension of basic language skills learned in French 1 and 2 at Cooper. Emphasis will be placed on the development of skills in conversation, pronunciation, grammar, reading, listening, and writing.

NKU French 102 *(AP weighted) (Dual Enrollment)*

Course # 160411-NKU

Grade Level: 11-12

Credit: 1

Prerequisite: NKU French 101 and additional prerequisites established by NKU

This class is a continuation of basic language skills learned in French 101. Additional emphasis will be placed on the development of skills in conversation, pronunciation, grammar, reading, listening, and writing.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

German

HS WL German I

Course # 160508-1

Grade Level: 9-12

Credit: 1

Recommended: B average in English recommended for success

The beginning course of German integrates the five goals of the national standards—communication, cultures, connections, comparisons and communities. Students will engage in interpersonal, interpretive and presentational activities within cultural contexts. Students will also create products to demonstrate essential knowledge and skills in German.

HS WL German II

Course # 160509-1

Grade Level: 10-12

Credit: 1

Prerequisite: German I

This course continues to challenge and motivate the foreign language learner with opportunities to learn more about German culture, and make connections to other subject areas. In addition, students will acquire a deeper understanding of the language and be able to better express one's self in the target language. The emphasis will be on authentic written and oral proficiency.

HS WL German III

Course # 160510-1

Grade Level: 11-12

Credit: 1

Prerequisite: German II

This course will expose students to more indepth reading, interpreting, and listening activities. Students will use literature, infographs, audio excerpts, and other resources. This course will also expand the students' interpersonal and presentation writing and speaking skills through individual and small group activities and projects. Students will learn advanced grammar and more verb tenses as well as more about the history and culture of German-speaking countries.

Spanish

HS WL Spanish I

Course # 161108-1

Grade Level: 9-12

Credit: 1

Recommended: B average in English and CERT score of 16

The beginning course of Spanish integrates the five goals of the national standards—communication, cultures, connections, comparisons and communities. Students will engage in interpersonal, interpretive and presentational activities within cultural contexts. Students will also create products to demonstrate essential knowledge and skills in Spanish.

HS WL Spanish II

Course # 161109-1

Grade Level: 9-12

Credit: 1

Prerequisite: Spanish 1

This course continues to challenge and motivate the foreign language learner with opportunities to learn more about Hispanic culture, and make connections to other subject areas. In addition, students will acquire a deeper understanding of the language and be able to better express one's self in the target language. The emphasis will be on authentic written and oral proficiency.

HS WL Spanish II Honors (*Honors Weighted*)

Course # 161109-H

Grade level: 9-12

Credit: 1

Prerequisite: B avg. or higher in Spanish I recommended for success

This course is similar to Spanish 2 but moves at a much faster pace with an emphasis on proficiency in speaking and listening. This course will be taught according to the Pre-Dual Enrollment curriculum and is recommended for students planning to take more than 2 years of Spanish.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

HS WL Spanish III Honors (*Honors Weighted*)

Course # 161110-H

Grade Level: 10-12

Credit: 1

Prerequisite: B average or higher in Spanish II recommended for success

This course is an extension of the Spanish 2 course at a much more in depth level. Advanced grammar and verb tenses are emphasized as well as Hispanic History and Culture. Heavy emphasis is placed on communication in the target language through the three modes of communication: Interpretive, Interpersonal and Presentational.

HS WL Spanish IV Honors (*Honors Weighted*)

Course # 161111-H

Grade Level: 11-12

Credit: 1

Prerequisite: B avg. or higher in Spanish III recommended for success

This class will further develop students' listening, reading, writing, and speaking skills and will prepare students to take Spanish in college. Significant emphasis will be placed upon refining these skills in a culturally appropriate content.

The following 4 courses are college credit bearing courses. In each class students can earn 3 college credit hours in addition to high school credit. Prerequisites established by NKU, placement test and acceptance into the program (through an application process) is required. Dual Enrollment fees apply.

NKU Spanish 101 (*AP weighted*) (*Dual Enrollment*)

Course # 002153

Grade Level: 11-12

Credit: 1

Prerequisite: Spanish II at RCHS and fulfillment of NKU Dual Enrollment requirements

This class is a review and extension of basic language skills learned in Spanish 1 and 2 at Cooper. Emphasis will be placed on the development of skills in conversation, pronunciation, grammar, reading, and writing.

NKU Spanish 102 (*AP weighted*) (*Dual Enrollment*)

Course # 002154

Grade Level: 11-12

Credit: 1

Prerequisite: Spanish 101; additional prerequisites established by NKU

This class is a continuation of basic language skills learned in Spanish 101. Additional emphasis will be placed on the development of skills in conversation, pronunciation, grammar, reading, and writing.

NKU Spanish 201 (*AP Weighted*) (*Dual Enrollment*)

Course #002111

Grade Level: 11-12

Credit: 1

Prerequisite: Spanish III H or Spanish 102; additional prerequisites established by NKU

This class is a review and extension of basic language skills learned in Spanish I, II and III at Cooper. Emphasis on reading and discussion of cultural, linguistic and literary subjects will be stressed.

NKU Spanish 202 (*AP Weighted*) (*Dual Enrollment*)

Course #002112

Grade Level: 11-12

Credit: 1

Prerequisite: Spanish 201; additional prerequisites established by NKU

This is a continuation of grammar review and enhancement of language skills learned in Spanish 201. Additional emphasis will be placed on cultural and literary subjects.

American Sign Language

American Sign Language I

Course #160208






Grade Level: 9-12






Credit: 1

Introductory course that engages students in the target language with developmentally appropriate activities to acquire the language necessary to communicate (interpret, exchange, and present information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas). Cultural aspects are typically included in order to understand the relationship among the products, practices and perspectives of the target language's culture. In addition, students develop insight into their own language and culture.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Cooper High School AP Credit Hours and Savings Opportunities

AP Class															
	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course
AP Art	3-5	3	102, 103, 130	3-5	3-6	100X, 105, 106	3-5	3	211	3-5	3	152, 200	3-5	3-4	1001, 1002, 2001, 2002
AP German Language	3-5	3-9	201, 202, 307	3-5	4	123	3-5	6-12	101, 102, 201, 202	3-4	9-12	101, 102, 201, 202	3-5	10	1001, 1002, 2001, 2002
AP French Language	3-5	3-6	202, 214, 311, 315	3-5	6	320-322	3-5	6-12	101, 102, 201, 202	3-4	9-12	101, 102, 201, 202	3-5	6-12	1001, 1002, 2001, 2002
Cost Per Credit Hour		\$401			\$406			\$370			\$314			\$465	
AP Savings		\$7,218			\$6,496			\$9,990			\$8,478			\$12,090	
Credit Hrs. Earned		18			16			27			27			26	

AP Class															
	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course	Score	Credit	Course
AP Art	4-5	2-3	elective	3-5	3	101, 160	4-5	4	3000	3-5	3	100, 101, 131	3-5	3-6	105, 130, 140
AP German Language	3-5	6	101, 102	3-5	6-12	101, 102, 201, 202	4-5	4	1034	3-5	3	201, 202, 304	3-5	9-15	101, 102, 201, 202, 330
AP French Language	3-5	6	101, 102	3-5	6-12	101, 102, 201, 202	4-5	4	1034	3-5	3	201, 202, 304	3-5	9-15	101, 102, 201, 202, 330
Cost Per Credit Hour		\$590			\$320			\$750			\$337			\$363	
AP Savings		\$8,850			\$8,640			\$9,000			\$3,033			\$13,068	
Credit Hrs. Earned		15			27			12			9			36	

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Health & P.E.

Health Education I

Course # 340133-3

Grade Level: Primarily 9th

Credit: .5

This course emphasizes the use of health values in decision making. The course content includes, but is not limited to alcoholism, drug abuse, personal hygiene, accident prevention, family living, sex education, environmental health, nutrition, and consumer health. Students will also be trained in CPR and First Aid under guidance of the American Heart Association recommendations. This course will cover the state curriculum of practical living.

Physical Education I

Course # 340216-1

Grade Level: Primarily 9th

Credit: .5

A variety of activities will be utilized in stressing the development of components of physical fitness. Basic skills, strategies, teamwork and general knowledge of team sports will also be included. Activities will include but not limited to weight training, speed ball, pickle ball, dance, basketball, soccer, and volleyball. Students will learn elements of dance and experience fundamental principles of movement.

Advanced Physical Education

Course # 340219-2

Grade Level: 10-12

Credit: .5

Prerequisite: Physical Education II

The emphasis is on the progression of skill level and knowledge of rules, terms, strategies of games, and participant sports. Instruction is given in organized competition in team, individual and dual sports. Physical fitness work and physical and written testing are included.

Wellness

Course # 340133-4

Grade level: 10-12

Credit: .5

Prerequisite: Health

The first part of this course will provide students the opportunity to gain skills that may one day save a life. Students will be instructed using the American Red Cross curriculum for training in Adult, Child and Infant CPR, and First Aid. Successful completion of the course may result in an American Red Cross certification if students decide to pursue certification at their own cost. The course will also cover making healthy decisions regarding lifestyle behaviors. Students will be presented with wellness information (multidimensional) that will help students prepare for co-op, job interviews, the workplace and the building of healthy lifelong relationships.

Fundamentals of Dance

Course # 500311-2

Grade Level: 9-12

Credit: .5 (Visual and Performing Arts)

Dance Foundations is an introductory class that is designed to provide dance experiences that lead to knowledge and performance of fundamental principles of movement in folk, square dance, social dance, aerobic dance, ballet, jazz, creative movement, and choreography. Students will become literate in dance, rhythmically moving with proper body mechanics through space and time with focused and directed energy. The importance of maintaining a healthy lifestyle and physically fit body will be stressed throughout this course.

Aerobics

Course # 340215-1

Grade Level: 10-12

Credit: .5

Prerequisite: PE I

This course is designed to give students the opportunity to learn aerobic dance routines and training techniques used for achieving optimal physical fitness. Students will benefit from comprehensive strength training and cardio-respiratory endurance activities. Students will learn basic aerobic steps as well as simple and complex aerobic dance combinations. Course includes both lecture and activity sessions.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Gross Motor Development (by application only)

Course # 909999-GMD

Grade Level: 9-12

Credit: 1

This Physical Education course collaborates with the Special Education Department. The mission of this course is to establish a relationship between general education students and students with multiple disabilities (cognitive or physical), while working along-side a physical education teacher, special education teacher, and paraprofessionals to improve and enhance the motor skills of students with disabilities. These skills include: running, catching, kicking, throwing, jumping, etc. Students who may be interested in a career in education, special education, physical therapy, occupational therapy, the medical field or any mentor profession may be interested in this course.

Gross Motor Development 2 (by application only)

Course # 909999-GMD2

Grade Level: 11-12

Credit: 1

Prerequisite: GMD

This elective course works in collaboration with the Gross Motor Development course. The mission of this course is for students to assess, plan, and reflect on the growth and development of students with disabilities. Students who may be interested in a career in education, special education, physical therapy, occupational therapy, the medical field or any mentor profession may be interested in this course.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Career & Technical Education

The Career and Technical Education Department is comprised of the following departments: agricultural science, business education, engineering education, family and consumer science, and information technology education. **Randall K. Cooper High School graduates are required to have a minimum of one career and technical credit.** Students will learn skills that will enable them to transition from high school to college AND from high school to the workplace.

During a student's senior year the CTE Department offers a Senior Internship option for qualified students. An internship is a work-based learning program for high school students who have completed extensive school based preparation relating to an identified area of career and academic interest. These internships give students opportunities to explore careers via the workplace. They have the opportunity to learn about the world of work and to develop useful skills and attitudes, workplace skills, and academic competencies needed to be successful.

Career and Technical Education (CTE) Internships

Please use the following course codes depending on the Career Pathway/Career Major of choice:

Agriculture Education Internship

Course # 030791

Business Education Internship

Course # 060108

Marketing Education Internship

Course # 080708

Culinary Arts Internship

Course # 200478

Fashion & Interior Design Internship

Course # 200801

Engineering Internship

Course # 210331

Computer Science Internship

Course # 110919

Senior Internship *(used only for students not meeting career pathway status)*

Course # 909999-3

Grade Level: 12 by application only

Credit(s): 1- 2

Prerequisites: 1. Student has completed or is currently enrolled in one CTE course aligned with their Career Pathway/Career Major and it matches the internship field, 2. Student completes an interview with business and industry professional in their CTE Pathway/Career Major, 3. Student has good attendance and discipline, and 4. Student must be able to drive and have proof of car insurance.

The following description applies to all CTE Internships at Cooper High School:

This class will provide senior students with an opportunity to investigate possible career options in their CTE Pathway/Career Major. Students will spend time at a non-paid worksite (depending on career major). Student must be placed in a field aligned with their career pathway choice in accordance with the recommended Capstone Course. This cannot be the only CTE class the student has taken, it can be taken in the same year with another CTE class in the selected pathway. Class activities may include – but are not limited to – completing employment credentials, maintaining a work log, developing effective communications skills, using technology in the workplace, discussing/applying good work ethics and appropriate attire for the workplace, etc.

This course can only be requested as an alternate on scheduling contract.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Agriculture

Agriculture Education is designed to provide career exploration, orientation, and preparation for any student who has an interest in any aspect of agriculture, horticulture, or the environment. The program is open to all students regardless of background or prior experience in the field. The only requirement for enrollment is an interest in the subject area. Though it has changed dramatically, agriculture and its related industries still comprise over 22% of America's workforce.

The National FFA Organization is the agriculture student organization offering all students the opportunity to develop leadership skills and self-confidence. Students in FFA are required to be enrolled in an agriculture class or program of study. FFA offers its members the chance to participate in competitions on the local, regional, state, and national levels, many field trips, leadership camps, conferences, as well as organized recreational activities.

AGRICULTURE EDUCATION CAREER MAJORS

TAKE AG CLASSES – EARN COLLEGE CREDIT

Horticulture & Plant Science Systems	Animal Science Systems
Recommended Courses	Recommended Courses
<p>Principles of Ag. Science & Tech. Agri-Biology Floriculture/Floral Design Greenhouse Technology Landscaping/Turf Mgmt</p>	<p>Principles of Ag. Science & Tech. Agri-Biology Small Animal Technology Animal Science Equine Science Veterinary Science</p>

Students who complete a career major within agriculture by taking at least 4 full agriculture credits (3 credits within an approved career area/major) can earn 3 hours of college credit to any of the five major public universities in Kentucky by passing the Career and Technical Education end of program assessment (CTE EOP assessment) during the spring of their senior year. Even though you may not want to complete a career major, feel free to explore different class offerings in the agriculture department.

At least 3 of the 4 courses used to earn the career major should come from this group of courses. See the suggested sequencing in the back of the CTE section.

Principles of Ag. Science and Tech.

Course # 030715-1

Grade Level: 9-10

Credit: 1

Prerequisite: None

Fee: \$10.00

Career Area: All

This course provides instruction in the foundations of the various segments of the agricultural industry. Agricultural career opportunities will be emphasized. Animal science, plant and land science, and agricultural mechanics skills will be the focus of the curriculum. The selection and planning of a supervised agricultural experience program and related record keeping will be presented. Leadership development will be provided through FFA. Students will receive personal guidance and counseling with preparatory instructional program selection. **This course is recommended for all agriculture career pathways.**

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Agri-Biology

Course # 030713

Grade Level: 10

Credit: 1

Prerequisite: None

Fee: \$15.00

Career Area: Animal Systems, Plant Systems

This course **does NOT** meet NCAA eligibility requirements for Science.

For students who took Principles of Ag. Science and Tech. during the freshman year, Agri-Biology will be your next Science course. Agri-Biology is a one-credit interdisciplinary course that meets the "life science requirement" for science credit. Agri-Biology uses agricultural context to present the required life science content for assessment, as outlined in the Program of Studies. As students study practical agricultural concepts, they apply scientific ways of thinking and working to real-life problems. The agriculture teacher and science teacher work together in planning and evaluating the course.

This course may count as one of the three required credits in Science for high school graduation.

Animal Science

Course # 020501-1

Grade Level: 10 or by teacher approval

Credit: 1

Prerequisite: Principles of Agriculture preferred

Fee: \$0

Career Area: Animal Systems

Animal Science develops basic knowledge and skills pertaining to livestock identification, selection, nutrition, reproduction and genetics, health management, and marketing of farm animals commonly produced in Kentucky. The latest production technologies, as well as, biotechnological applications will be included. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program. **This course is recommended for the Animal Science Pathway.**

Floriculture and Floral Design

Course # 010621-1

Grade Level: 10-12

Credit: .5

Prerequisite: Principles of Agriculture preferred

Fee: \$15.00

Career Area: Plant Systems

Floriculture and floral design provides instruction to develop floral design techniques using silk, dried, and fresh flowers. Students will learn operation and management techniques of a florist business as well as identification, production and cultural maintenance practices of plants used in floral design and interior landscaping. **This course is recommended for the Horticulture and Plant Systems Career Pathway.**

Greenhouse Technology

Course #010641-1

Grade Level: 10-12

Credit: 1

Prerequisite: Principles of Agriculture preferred

Fee: \$15.00

Career Area: Plant Systems

This course provides instruction in greenhouse structures and greenhouse environment regulations. Plant growth and development and propagation are included as well as production and maintenance of bedding and container produced plants. Fundamental principles of vegetable production and commercial production of vegetable crops as well as marketing of horticulture products will be included. **This course is recommended for the Horticulture and Plant Systems Career Pathway.**

Landscaping and Turf Management (Fall)

Course # 010631-1

Grade Level: 10-12

Credit: .5

Prerequisite: Principles of Agriculture preferred

Fee: \$10.00 each course fall & spring

Career Area: Plant Systems

These courses combine landscaping and turf management curriculum. The material includes identification of landscape plants and their characteristics, site evaluation, site design, calculation of materials needed, costs for bidding, and installing landscape plans. Landscape plant maintenance will also be presented. Selection, culture and management of turf species used for lawns, golf courses, athletic fields and erosion control may also be included. Content may be enhanced by utilizing appropriate technology. Leadership development will be provided through FFA. Sign up for both fall and spring courses to receive a full credit in Horticulture. **This course is recommended for the Horticulture and Plant Systems Career Pathway.**

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Landscaping and Turf Management II (Spring)

Course # 010631-2

Grade Level: 10-12

Credit: .5

Prerequisite: Principles of Agriculture preferred

Fee: \$10.00 each course fall & spring

Career Area: Plant Systems

These courses combine landscaping and turf management curriculum. The material includes identification of landscape plants and their characteristics, site evaluation, site design, calculation of materials needed, costs for bidding, and installing landscape plans. Landscape plant maintenance will also be presented. Selection, culture and management of turf species used for lawns, golf courses, athletic fields and erosion control may also be included. Content may be enhanced by utilizing appropriate technology. Leadership development will be provided through FFA. Sign up for both Fall and spring courses to receive a full credit in Horticulture. **This course is recommended for the Horticulture and Plant Systems Career Pathway.**

Equine Science

Course # 020510-1

Grade Level: 10-12

Credit: 1

Prerequisite: None

Fee: \$0

Career Area: Animal Science

This course develops knowledge and skill pertaining to breed identification and selection, anatomy, physiology, nutrition, genetics and reproductive management, training principles, grooming, health disease, parasite control, and sanitation practices. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program.

Veterinary Science

Course # 020511-1

Grade Level: 11-12

Credit: 1

Prerequisite: Principles of Agriculture preferred PLUS Animal Science, Equine Science, or Small Animal Science and Technology

Fee: \$0

Career Area: Animal Systems,

This course introduces students to the field of veterinary. Major topics include veterinary terminology, safety, sanitation, anatomy/physiology, clinical exams, hospital procedures, parasitology, posology, laboratory techniques, nutrition, disease, office management, and animal management. Careers are also explored. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program. **This course is recommended for the Animal Science Career Pathway.**

Dual Enrollment Course

Murray State Racer Academy Courses (AP Weighted) (Dual enrollment)

Course #030725

Grade Level: 11-12

Credit: 1 (Dual Enroll. - Murray -3 hrs.)

Fee: \$273 course fee to Murray State University (per course these courses qualify for Work Read Dual Credit Scholarship)

Prerequisite: 3.0 GPA, Application to MSU Racer Academy, and Ag Instructor Approval

RCHS offers a variety of dual enrollment opportunities in agricultural education through the Murray State University Racer Academy for students who desire advanced studies in agriculture. To be eligible, students must be preparatory in an agriculture career pathway, be a sophomore, junior, or senior, and submit a transcript with at least a 3.0 GPA. The program offers seven courses:

- AGR-100 – Animal Science,
- AGR-133 – Ag Math
- AGR-140 – Plant Science,
- AGR-160 – Horticultural Science,
- AGR-182 – Intro to Pre-Veterinary Science,
- AGR-185 – Ag Leadership,
- AGR-199 – Contemporary Issues in Agriculture

A student can earn 3-credit hours per course completed and each course is for one semester. Students complete the Racer Academy coursework independently with guidance from the agriculture instructor.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Business

As technology advances, it is crucial that Cooper students know and understand the many software programs they will use in college and/or the workplace. With our curriculum, students are offered the opportunity to have hands-on experience in word processing, database, spreadsheets, programming, graphics, video production, and presentation software.

Classes in this program provide students the opportunity to learn many valuable skills which will increase their marketability as they enter college and/or the workplace. In addition, many colleges and universities count Microsoft Certified Office Specialist Certifications for college credit. We offer a preparation class and testing through our curriculum.

The majority of current and future jobs require some level of technical skills; therefore, students need to participate in career and technical education while in school. Students may receive a specialized certification if they complete four classes in one major. These sequences are for certification only. Students choosing not to complete a career pathway sequence may choose to take a variety of business and technology courses. Below is a list of the business/technology career pathways. Students who complete any of these career pathways will be required to participate in the CTE End of Program Assessment (EOP). The successful completion of this assessment is recognized by colleges/universities, business and industry as certifications in these fields.

Any student who enrolls in a business or information technology class has the opportunity to join FBLA (Future Business Leaders of America). This is a co-curricular organization that provides students with an opportunity to develop leadership skills. Our chapter participates in several community service activities and competitions. **We encourage all students to get involved.**

BUSINESS/MARKETING PATHWAYS		
Administrative Support	E-Commerce	Marketing
Recommended Courses	Recommended Courses	Recommended Courses
Digital Literacy Accounting OR Personal Finance	Digital Literacy Marketing Principles	Marketing Principles Marketing Applications
Electives	Electives	Electives
MOS Intro to Management Business/ Marketing Internship	Advanced Multimedia Publishing Marketing Applications MOS Business/Marketing Internship	Sports & Event Marketing Retail Operations Specialist Accounting Marketing Internship

Accounting and Finance Foundation

Course # 060122-1

Grade Level: 10-12

Credit: 1

Recommended: Algebra II

Students who plan on pursuing any degree in the business finance, accounting, or a leadership field should take this course in high school. This class will prepare students who plan on operating their own business, working in the banking field or preparing taxes. College level accounting is a strenuous course. Mastering fundamentals in high school will help students become successful in the college world. This course gives students an introduction to the accounting cycle through journalizing business transactions and following the necessary steps in creating financial statements. Students will use automated accounting and on-line activities to enhance concepts. These skills will prepare students for the workplace, continuing into post-secondary education, and providing students a solid foundation in life skills. Leadership development is provided through FBLA. **This course is recommended for the career pathways of Administrative Support and Marketing.**

Marketing Principles

Course #080716-1

Grade: 9-12

Credit: 1

This course provides a basic foundation for further study in marketing. Students study economic functions at work in the marketplace; marketing functions including purchasing, pricing, and distribution functions. This course is based on the business and marketing core that includes communication skills, economics, financial analysis, and promotion. Both marketing and employment skills learned will improve and increase the student's college and career readiness. **This course is recommended for the career pathway of Administrative Support, E-Commerce and Marketing.**

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Marketing Applications

Course #080717-1

Grade Level: 10-12

Credit: 1

Prerequisite: Marketing Principles

This course is designed to enhance marketing skills developed in the marketing prerequisite courses and to learn advanced marketing skills in such areas as advertising, customer service, supervision, and employee/employer relations for a wide range of marketing careers. This course is based on the business and marketing core that includes communication skills, emotional intelligence, economics, marketing, operations, promotion, marketing-information management and financial analysis. **This course is recommended for the career pathway of E-Commerce and Marketing.**

Advanced Multimedia Publishing Honors (*Honors Weighted*) Cooper NOW Media Team- Admittance per Application

Course: # 060761-H

Grade Level: 10-12

Credit: 1*

Suggested Prerequisite: Digital Literacy with an A average OR Principles of Marketing

(Student is required to complete an application and get teacher recommendation)

*(can be repeated for credit as Business Ed. Internship)

This course is designed to provide students with hands-on experience of running a school-based industry simulated experience. Students will actively plan, write, and perform stages of video production. Students will contribute as a team member, as they perform all functions of broadcasting procedures to produce a monthly variety program and any requests from community or staff. In addition, student will apply basic fundamentals of advertising using digital, social and print media. In addition, students will explore use of multimedia in website creation. Outside work is required for events that occur outside normal school hours. This course is based on the business and marketing core that includes communication skills, product/service management and promotion (a school-based enterprise). Leadership development will be provided through STLP. Class size is limited due to space limitations and requires an approved application, teacher recommendations, and 2.5 GPA. **This course is recommended for the career pathways of E-Commerce and Marketing.**

Students wishing to repeat this course will still fill out a Cooper Now application. Scheduled course will be Business Ed Internship.

Introduction to Management

Course # 060411-1

Grade Level: 11-12

Credit: 1

This course emphasizes the skills needed for managing a business that involves the selection and supervision of employees including efficient use of time, personnel, facilities, and financial resources. Students will explore forms of business ownership; typical business organizational structure; product or service promotion in business; effective communications; human relations skills required in dealing with employees; and effective management strategies used in personnel, finance, production, marketing, and information processing. Leadership development will be provided through FBLA. **This course is recommended for the career pathway of Administrative Support.**

Digital Literacy

Course # 060112-1

Grade Level: 9-12

Credit: 1

Prerequisite: Students must have basic keyboarding skills

This course is highly recommended for **ALL** students. This course will place an emphasis on creating/formatting documents. This is an essential skill for students interested in a business career, pursuing college or personal use. Course content will also include understanding of hardware, software, and operating systems. Students will develop competency in programs such as Microsoft Word, PowerPoint, Excel, Access, and Publisher as they complete units of study in word processing, presentation, database and spreadsheets. Internet research is incorporated into the course, as well as basic business concepts with an emphasis on computer terminology/functions and career/employment opportunities. This course is a prerequisite for other technology courses including the Microsoft Office (MOS) course where students gain Microsoft Certification. **This course is recommended for the career pathways of Administrative Support, E-Commerce, Marketing, and Computer Science.**

Micro Office Specialist Honors (*Honors Weighted*)

Course # 070750-H

Grade Level: 9-12

Credit: 1

Prerequisite: B average or higher in Digital Literacy

As an extension of Digital Literacy class, students will have the opportunity to increase their computer skills and become Microsoft Certified; advanced functions and integration of Microsoft Word, Excel, Access, and PowerPoint will be taught. Students will work toward MCAS Certification in one or more of these Microsoft areas. In addition, students will utilize Internet access to complete various projects. In today's work environment, it is a necessity that students acquire strong computer skills. With the in-depth knowledge learned in this course, students will possess varied marketable skills. Students earning MCAS certification(s) may be eligible for college credits at many colleges/universities and possess qualities for entry level workplace positions. Students will be given ample opportunity to practice test taking skills and sample tests before they take the Microsoft exam. These exams can be taken during college for a fee of \$90. Many college classes require certification. For example, UK's 2nd year accounting course requires Excel certification for entrance into class. Careers also may require certification. **This course is recommended for the career pathway of Administrative Support and E-Commerce.**

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Personal Finance

Course # 060170-1
Prerequisite: Algebra 1

Grade Level: 11-12

Credit: 1

The goal of the Personal Finance course is to help students to become financially responsible, conscientious members of society. To that end, this course develops student understanding and skills in such areas as money management, budgeting, financial goal attainment, the wise use of credit, insurance, investments, and consumer rights and responsibilities. Throughout the course, students also examine contemporary, real-world ethical dilemmas that individuals commonly encounter when managing their personal finances. Leadership development will be provided through FBLA (Future Business Leaders of America). **This course is recommended for all Business and Marketing Pathways.**

Retail Operations Specialist (School Store)

Course # 081411-1

Grade Level: 11-12

Credit: 1*

Prerequisite: Spirit Store application to be completed before scheduling and teacher recommendation

*(can be repeated as Marketing Internship)

This course is designed to provide an overview of the marketing responsibilities of individuals employed in the retail industry. This course is based on the business and marketing core that includes communication skills, operations, distribution, marketing-information management, pricing, product/service management, promotion and selling. This course provides students with realistic experience in a retail environment including use of an automated inventory and point of sales software. Students receive hands-on training by working in the school spirit store, The Great RC, during 4th period class. In addition, students may complete special assignments in the study of consumerism, supply and demand, retail markup, profit percentages, inventory management, and purchasing. Students must be willing to follow a "work schedule" which includes selling school spirit store items at after school events. Leadership development will be provided through FBLA. **This course is recommended for the career pathways of E-Commerce and Marketing.**

Students wishing to repeat this course will still fill out an Internship application. Scheduled course will be Marketing Internship.

Sports & Event Marketing

Course # 081121-1

Grade Level: 11-12

Credit: 1

Prerequisite: Marketing Applications

In this course, you will gain knowledge in one of the most rapidly expanding fields of management and marketing in today's job market. The general principles of management and marketing will be presented in connection with the popular fields of the sports and entertainment industry. Sample topics discussed include sponsorships, licensing, endorsements, internships and promotions. This course will explore the intriguing world of sports and entertainment from the management and marketing perspective. This is a rapidly growing major offered by many universities. **This course is recommended for the career pathway of Marketing.**

Dual Enrollment Courses

FLC 101 – Pathways to Financial Success

Course # 002554

Grade Level: 11-12

Credit 1 (1 semester course)

Prerequisite: NKU Dual Enrollment Application and Requirements

This course will provide students with the knowledge and skills to make sound personal financial decisions that promote financial success during college and beyond. Emphasis on decisions related to navigating college costs; earning, spending; saving; borrowing; and protecting. **Dual Enrollment fees will apply.**

ENTP 305 – Introduction to Entrepreneurship

Course #

Grade Level: 11-12

Credit 1 (1 semester course)

Prerequisite: NKU Dual Enrollment Application and Requirements

This course is designed to provide students with an overview of the entrepreneurial thought processes of creativity, innovation, and critical thinking as well as the business planning process. It provides students with a framework in which to conduct a feasibility analysis that will help prepare them for a potential entrepreneurial venture. Not open to entrepreneurship majors or minors. **Dual Enrollment fees will apply.**

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

OTHER COURSES

The following courses **do not** meet the CTE requirement for Cooper High School.

Office Assistant (this course does **not** meet the CTE graduation requirement)

Course # 909020-1

Grade Level: 12 only*

Credit: .5

Prerequisite: Application and Interview

***(can only be requested as an alternate course on scheduling contract)**

Students will be trained to work in a professional environment within the school setting. Work assignments may include getting students from classrooms, taking detention notices to students, answering phone calls and taking messages, filing /making file folders, operating all office equipment as needed, and working with administrators and staff. Students are required to maintain confidentiality at all times. Students must also be a positive role model to all students (cannot be a discipline problem), maintain passing grades in all subjects, maintain good attendance (including minimal tardies), and may write a portfolio piece assigned by the administrator. **To be eligible, students must submit an application and will have an interview.** Also, students may not have failed more than one class during their high school career. Students may not take Peer Tutoring or Library Assistant in the same semester.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Engineering

Engineering and Technology at the high school level is a broad based program addressing many aspects of our technologically dependent society through various contexts. Instructional activities provide students with knowledge and skills concerning the function and operation of various technological devices. The High School Engineering and Technology program also immerses the student in decisions concerning technology, analyzing the impacts and assessing various technological issues. These educational goals can be accomplished through a variety of means, including, but not limited to research and presentations, discussions, and field experiences. The design, construction, and testing of various projects using a variety of contexts is imperative for success in an engineering and technology program.

Project Lead the Way provides a comprehensive approach to STEM Education. Through activity-, project-, and problem-based curriculum, PLTW gives students in high school a chance to apply what they know, identify problems, find unique solutions, and lead their own learning.

PLTW Engineering is more than just another high school engineering program. It is about applying engineering, science, math, and technology to solve complex, open-ended problems in a real-world context. Students focus on the process of defining and solving a problem, not on getting the "right" answer. They learn how to apply STEM knowledge, skills, and habits of mind to make the world a better place through innovation.

PLTW Engineering Pathway
Recommended Courses
Introduction to Engineering Design Principles of Engineering
Electives
Civil Engineering and Architecture Aerospace Engineering AP Computer Science Principles

Engineering I *(Honors weighted)*

Course #210221-1

Grade Level: 9-10

Credit: 1

Prerequisite: Algebra I

This course **does NOT** meet NCAA eligibility requirements for Math.

This course is designed for the student interested in an engineering-related field of study. It is a fast-paced, challenging course that focuses on learning how to take an idea through an engineering design process. Students will be exposed to job skills, teamwork, data analysis, and applications of math & science. Through activity-based and problem-based learning, students practice applying engineering standards, sketching to communicate ideas, and creating technical documentation. They work both individually and in teams to design solutions to a variety of problems using industry-standard 3D modeling software. **This course uses the Introduction to Engineering Design course curriculum from Project Lead the Way.**

This course requires solid time management skills and the ability to stay on task while working independently and in groups.

Engineering II *(Honors weighted)*

Course # 210222-1

Grade: 10-12

Credit: 1

Prerequisites: Intro to Engineering or approval of teacher

This course **does NOT** meet NCAA eligibility requirements for Math.

Through activity-based and problem-based learning, students explore a broad range of engineering topics including mechanisms, the strength of structures and materials, automation, robotics, and programming. Students develop skills in problem solving, research, and design while learning strategies for technical documentation of a design process, collaboration, and presentation. **This course uses the Principles of Engineering course curriculum from Project Lead the Way.**

This course requires solid collaboration skills.

ELECTIVE MATH CREDIT: Students may use this course as a math elective for their SENIOR year only if they have met Benchmark (19 or greater on the ACT).

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Civil Engineering and Architecture *(Honors weighted)*

Course #219905-1

Grade: 11-12

Credit: 1

Prerequisite: Engineering Design I Honors and Principles of Engineering or approval of teacher

NOTE: This course is only offered alternating years.

This course **does NOT** meet NCAA eligibility requirements for Math.

Through hands-on design and activities, students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software. **This course uses the Civil Engineering and Architecture course curriculum from Project Lead the Way.**

ELECTIVE MATH CREDIT: Students may use this course as a math elective for their SENIOR year only if they have met Benchmark (19 or greater on the ACT).

Aerospace Engineering *(Honors Weighted)*

Course # 210229

Grade: 11-12

Credit: 1

Prerequisite: Intro to Engineering Design and Principles of Engineering, or teacher approval.

Recommended: As and Bs in math and physics

NOTE: This course is only offered alternating years.

This course **does NOT** meet NCAA eligibility requirements for Math.

This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles. **This course uses the Aerospace Engineering course curriculum from Project Lead the Way.**

ELECTIVE MATH CREDIT: Students may use this course as a math elective for their SENIOR year only if they have met Benchmark (19 or greater on the ACT).

Introduction to Aerospace and Aviation

Course # 210226

Grade: 9-10

Credit: 1

This core aerospace and aviation course provide the foundation for all flight and aviation pathways. Students will gain an appreciation for the similarities and differences between aviation and aerospace. Students will also gain a historical perspective starting from the earliest flying machines to the wide variety of modern aircraft and the integral role they play in making today's world work. Students will learn about the history and impact of space exploration and have opportunities to build and fly historical and contemporary aircraft and spacecraft designs. Students will also begin to drill down into the various sectors of aviation and the parts that make up the aviation and aerospace ecosystem. They will discover how advances in aviation created a need for regulation and will learn about the promulgation of civil aviation oversight. Participation in Kentucky Technology Student Association will greatly enhance instruction.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Family and Consumer Sciences

Family and Consumer Sciences Education prepares students for family life, careers, and community service. Opportunities are provided to develop knowledge and skills that focus on career majors/clusters. These include Fashion and Interior Design and Culinary and Food Services.

Family, Career, and Community Leaders of America (**FCCLA**) is the official student organization for Family and Consumer Science students and is an integral part of the instructional program. Students are encouraged to join the local chapter and fully benefit from the citizenship training, personal achievement, and leadership development at the local, regional, state, and national levels. Dues are \$25.00 per year.

Below is a list of career pathways for which students may receive specialized certification. It is recommended that students take the sequence of FCS courses provided. Students who have completed 2 classes in a Career pathway will be required to take the Career and Technical Education end of program assessment (**CTE EOP**) during the spring of the following year.

FAMILY & CONSUMER SCIENCES CAREER PATHWAYS

Culinary & Food Services	Fashion & Interior Design
Recommended Courses	Recommended Courses
FCS Essentials Foods & Nutrition Culinary I Culinary II	FCS Essentials Fashion & Interior Design I Fashion & Interior Design II Fashion & Interior Design III
Elective Courses	Elective Courses
Culinary Arts Internship	Fashion & Interior Design Internship

Culinary Arts I

Course #200411-1

Grade Level: 11-12

Credit: 1

Prerequisite: Food & Nutrition

This advanced course allows students to increase competencies in a variety of food preparation techniques. Emphasis will be placed on food presentation, garnishing, menus planning and the skills necessary to prepare for a career in the culinary arts profession. Leadership development will be provided through the Family, Career and Community Leaders of America. **This course is recommended for a Career Pathway in Culinary & Food Services.**

Culinary Arts II

Course #200412-1

Grade: 12

Credits: 2

Prerequisite: Culinary Arts I

In this course, students resume progress in pursuing competencies in food production and services. Orientation to the food service industry and development of food preparation skills are reinforced. Food service management functions are introduced. More in-depth information is provided and higher levels of skills are taught. Time is provided for work-based learning opportunities. **This course is recommended for a Career Pathway in Culinary & Food Services.**

FCS Essentials

Course # 200113-1

Grade Level: 9-10

Credit: 1

This comprehensive course provides an opportunity for acquiring basic life skills and guides students to explore and select specific areas for concentrated study. Emphasis is on family, employability skills, adolescent development, introduction of textiles, interiors and design, financial management, parenting, establishing healthy relationships, creating a foundation for healthy lifestyles, and nutrition. Leadership development will be provided through Family, Career and Community Leaders of America (FCCLA) student organization. **This course is recommended for a Career Pathway in Fashion & Interior Design and Culinary & Food Services .**

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Fashion and Interior Design I

Course # 200821-1

Grade level: 10-12

Credit: 1

Prerequisite: FCS Essentials

This course provides opportunities for students to explore career competencies in the fashion and interior design industry. Students will examine the impact of history, culture, and the environment on current and future trends in the fashion and interior design industries. Students will evaluate elements and principles of design as well as construct fashion and interior design projects that demonstrate comprehension. Leadership development will be provided through Family, Career and Community Leaders of America (FCCLA) student organization. **This course is recommended for a Career Pathway in Fashion & Interior Design.**

*At least one sewing project will be constructed. Actual project material will be the responsibility of the individual student. (Approximate cost: \$30)

Fashion and Interior Design II

Course # 200825-1

Grade level: 11-12

Credit: 1

Prerequisite: Fashion and Interior Design I

This course provides opportunities for students to develop career competencies in the fashion and interior design industry. Advanced fiber classification, textile performance and construction techniques are used for client designs and application as an integral component of this course. Students will implement technology to create visual presentations for clients and the development of an individual digital portfolio. Leadership development will be provided through the Family, Career, and Community Leaders of America (FCCLA) student organization. **This course is recommended for a Career Pathway in Fashion & Interior Design.**

*Actual project materials will be the responsibility of the individual student. (Approximate cost: \$80 throughout the year)

Fashion and Interior Design III

Course # 200826

Grade Level: 12

Credit: 1

Prerequisite: Fashion and Interior Design I and Fashion and Interior Design II

This course provides opportunities for student to apply career competencies in the Fashion and Interior Design Industry. Course competencies are designed to equip students with entrepreneurial skills for the respective industries. Students may develop a business plan and operate a student-run enterprise. An emphasis on client based projects through advanced operation of industry equipment and other related fashion and interior design projects are incorporated. A digital portfolio will be finalized to demonstrate individual growth through the career pathway. **This course is recommended for a Career Pathway in Fashion & Interior Design.**

Foods & Nutrition

Course # 200441-1

Grade Level: 10-12

Credit: 1

Prerequisite: FCS Essentials

This course is designed to assist students in making critical decisions about food, which contributes to health and well-being. Laboratory instruction is included as an application process. Practical problems addressed relate to attitudes toward food, nutrition facts, special health concerns and diets, management of food resources, preparation skills, food safety, sanitation and careers in nutrition and food service. **This course is recommended for a Career Pathway in Culinary & Food Services.**

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Computer Science

As technology becomes more heavily incorporated into every career field, the need for professionals to handle the development, implementation and maintenance of company software and applications is greater now than ever. Cooper High Students can participate in career preparation courses, encompassing a variety of programming languages, yet all focused on key algorithmic thinking protocols. Courses are offered at a variety of abilities, proving any student can learn to create and manage software.

The Computer Science Pathway courses focus on computer theory, computing problems and solutions, and design of computer systems and user-interfaces. The coursework will include instruction in the principles of computational science, computer development and programming and applications to a variety of end use situations. Students who complete this career pathway will be required to participate in the Career and technical Education end of program assessment (CTE EOP assessment). The successful completion of this assessment is recognized by colleges/universities, business and industry as certifications in these fields.

Any student who enrolls in an information technology class has the opportunity to join FBLA (Future Business Leaders of America) or INTERalliance. These co-curricular organizations provide students with an opportunity to develop leadership skills. Each chapter participates in several community service activities and competitions. **We encourage all students to get involved.**

Computer Science Pathway
Recommended Courses Digital Literacy Intro. To Programming AP Computer Science Principles
Elective Courses AP Computer Science A Java 2 Project-Based Programming Computer Sciences Internship

Introduction to Programming

Course # 110201-1

Grade Level: 9-12

Credit: 1

Prerequisite: Digital Literacy or Algebra 1

This course focuses on the general writing and implementation of generic and atomized programs to drive operating systems. Instruction includes software design, languages, and program writing and trouble-shooting. Students are introduced to fundamental programming concepts using an industry-specific or emerging programming language. Includes data types, control structures, error-handling, modular programming, information and file processing and uniqueness of the language used in the course. **This course is recommended for the career pathway of Computer Programming.**

ELECTIVE MATH CREDIT: Based on instructor certification students may use this course as a math credit for their SENIOR year only if they have met Benchmark (19 or greater on the ACT). Senior students not meeting benchmark and all other grade levels may take this credit as an elective.

AP Computer Science Principles (AP Weighted)

Course #110711-1

Grade: 9-12

Credit: 1

Prerequisite: Digital Literacy or Algebra I

This course is designed to introduce students to the central ideas of computer science, to instill ideas and practices of computational thinking, and to have students engage in activities that show how computing changes the world. The course is rigorous and rich in computational content, includes computational and critical thinking skills, and engages students in the creative aspects of the field. This course follows the curriculum established by the College Board and prepares students to take the Advance Placement examination in the AP Computer Science Principles. **This course is recommended for the career pathway of Computer Science**

ELECTIVE MATH CREDIT: Based on instructor certification students may use this course as a math credit for their SENIOR year only if they have met Benchmark (19 or greater on the ACT). Senior students not meeting benchmark and all other grade levels may take this credit as an elective.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

AP Computer Science A *(AP Weighted)*

Course #110701-1

Grade Level: 10-12

Credit: 1

Prerequisite: Intro to Programming **OR** AP Computer Science Principles

This course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development. It is meant to be the equivalent of a first-semester college-level course in Computer Science. It also includes the study of data structures, design, and abstraction. It is strongly encouraged that students have prior programming experience before beginning this course. This course follows the curriculum established by the College Board and prepares students to take the Advance Placement examination in the AP Computer Science A. **This course is recommended for the career pathway of Computer Science.**

ELECTIVE MATH CREDIT: Based on instructor certification students may use this course as a math credit for their SENIOR year only if they have met Benchmark (19 or greater on the ACT). Senior students not meeting benchmark and all other grade levels may take this credit as an elective.

JAVA 2 Programming Honors *(Honors Weighted)*

Course# 110206-H

Grade Level: 12

Credit: 1

Prerequisite: AP Computer Science A

This course is a continuation of computer programming. This course is to be taken after AP Computer Science A. Students in this course will be working in greater detail with graphical user interfaces, inheritance, encapsulation, and other object-oriented programming techniques. Students in this course will prepare and take at least two Microsoft Technology Associate Exams to become career ready. **This course is recommended for the career pathway of Computer Programming.**

ELECTIVE MATH CREDIT: Based on instructor certification students may use this course as a math credit for their SENIOR year only if they have met Benchmark (19 or greater on the ACT). Senior students not meeting benchmark and all other grade levels may take this credit as an elective.

Project-Based Programming *(Honors Weighted)*

Course# 110226-1

Grade Level: 11-12

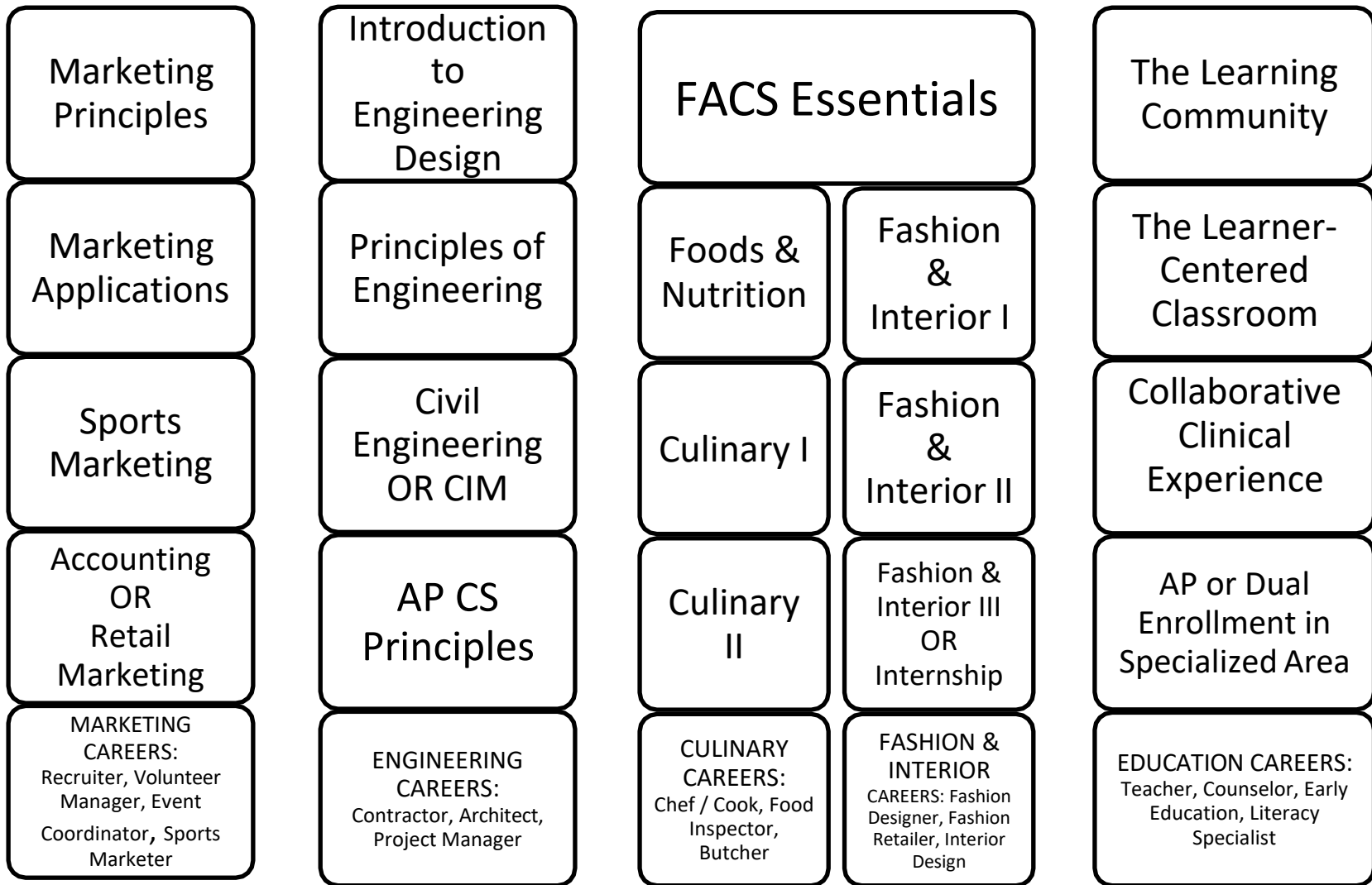
Credit: 1

Prerequisite or Co-requisite: AP Computer Science A

This project-based learning course engages students who are interested about programming. In this course students will create projects that require computer science fundamentals and extensive research to successfully complete. Students will work either solo or in a team to execute a project decided upon by the student(s). Students must learn and demonstrate proficiency in time management, scope, research, computer science and teamwork to be successful in this course. Finally, students will engage in leadership skills by being held accountable for completion of their tasks or project.

This course may NOT count as a Senior Math credit.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.



Alternative Courses available as a District Offering Include:

Area Technology Center, Interactive Media Arts, Homebuilder's Program, Firefighter/EMT Program



Summer Gardening



Register Now

Would you like to grow your own food?

Do you prefer hands-on learning?

Do you struggle to fit an agriculture class into your schedule?

This course is designed for students who desire a hands-on approach to learning about agriculture. You will be responsible for maintaining a specific plot in our school garden for the summer. Course participants will meet weekly for work in the garden.



Summer Grooming

Register Now

Do you prefer hands-on learning?

Do you struggle to fit an agriculture class into your schedule?

This course is designed for students who desire a hands-on approach to learning about dog grooming. You will be responsible for maintaining our school grooming station and grooming animals. Course participants will meet weekly to learn and groom!



If you desire to take an agriculture course but aren't able to fit it into your schedule because of V-school or AP courses, or you're simply interested in learning more about gardening or grooming, talk to Mr. White or Ms. Connelly soon. Class enrollments will be limited!

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Off Campus Programs

EARLY COLLEGE

BOONE COUNTY EARLY COLLEGE IS AN OFF CAMPUS PROGRAM FOR THE FIRST THREE PERIODS OF THE DAY LOCATED AT GATEWAY COMMUNITY AND TECHNICAL COLLEGE—BOONE COUNTY CAMPUS. COURSES ARE OFFERED FROM THREE COLLEGES (NKU, THOMAS MORE, GATEWAY) IN ONE LOCATION. THE FOLLOWING COURSES ARE EXAMPLES OF WHAT MAY BE OFFERED. EACH INSTITUTION DETERMINES THE COURSE OFFERINGS AND THOSE OFFERINGS ARE SUBJECT TO CHANGE. IN ADDITION, NOT ALL COLLEGE COURSES OFFERED THROUGH EARLY COLLEGE COUNT AS GENERAL STUDIES AND MAY IMPACT TRANSFERABILITY. STUDENTS MUST APPLY AND BE ACCEPTED TO GATEWAY, NKU, AND THOMAS MORE UNIVERSITY. (REFER TO PAGE 60 FOR ADDITIONAL ENROLLMENT INFORMATION).

TUITION AND FEES APPLY.

GATEWAY COURSES

ENG 101 Writing I

Course # 000467-GTVEC

Credit: 1

Grade Level: 11-12

Focuses on academic writing. Provides instruction in drafting and revising essays that express ideas in Standard English, including reading critically, thinking logically, responding to texts, addressing specific audiences, researching and documenting sources. Includes review of grammar, mechanics and usage, Notes: (a) credit not available by special examination; (b) English 101 and 102 may not be taken concurrently; (c) AP credit in the English Language and Composition category for ENG 101 awarded as indicated by AP scoring chart in current KCTCS catalog. Pre-requisite: Appropriate writing placement score or ENC 091. Lecture: 3 credits (45 contact hours). Components: Lecture Attributes: WC - Written Communication,

ENG 102 Writing II

Course # 000468-GTVEC

Credit: 1

Grade Level: 11-12

Emphasizes argumentative writing. Provides further instruction in drafting and systematically revising essays that express ideas in Standard English. Includes continued instruction and practice in reading critically, thinking logically, responding to texts, addressing specific audiences, and researching and documenting credible academic sources. NOTE: Credit is not available by special examination. Pre-requisite: ENG 101. Lecture: 3 credits (45 contact hours). Components: Lecture Attributes: WC - Written Communication,

CHE 120 Chemistry in Society

Course #000237-GTVEC

Credit: 1

Grade Level: 11-12

Introduces non-science majors to the main concepts and applications of chemistry in our society. Prerequisite: Math ACT score of 18 or higher OR completion of quantitative reasoning co-requisite course. Lecture: 3.0 credits (45 contact hours). Components: Lecture Attributes: SN – Science

CHE 125 Chemistry in Society Laboratory

Course #006172-GTWLEC

Credit: 1

Grade Level: 11-12

Reinforces concepts covered in CHE 140 and introduces basic laboratory techniques, methods, and instrumentation through selected experiments dealing with chemical and physical properties, qualitative analysis, and quantitative analysis. Prerequisite or co-requisite: CHE 140. Laboratory: 1 credit (45 contact hours, 45:1ratio). Components: Laboratory Attributes: SL - Science Laboratory, SN – Science

COM 181 Basic Public Speaking

Course # 000311-GTVEC

Credit: 1

Grade Level: 11-12

Applies the basic principles and techniques in research, organization, and delivery of speeches for informative and persuasive speaking purposes. Provides practical platform experience in developing speaking abilities to enable the student to communicate orally in clear, coherent language appropriate to the purpose, occasion, and audience. Prerequisite: Current KCTCS placement scores for college level reading and writing OR Consent of Instructor. Lecture: 3 credits (45 contact hours). Components: Lecture Attributes: OC – Oral Communication

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

MAT 151 Introduction to Applied Statistics

Course # 017087-GTWEC

Credit: 1

Grade Level: 11-12 Serves as an

entry-level introduction to applied statistics useful for a variety of fields. Covers statistical terminology and the appropriate use of software for the calculation of descriptive statistics, basic probability, correlation and linear regression. Emphasizes understanding the uses and misuses of statistics in the real world. (Same as STA 151.) (Students may not receive credit for both this course and any of the following: STA 151, STA 200, STA 210, STA 215.)

Lecture: 3 credits (45 contact hours).

Pre-requisites: Pre-requisite: College Readiness in Mathematics.

Components: Lecture Attributes: QR - Quantitative Reasoning,

MAT 161 Statistics and Algebra

Course # 017175-GTWEC

Credit: 1

Grade Level: 11-12 Serves as

the entry-level mathematics class for students in business and related fields. Provides a survey of algebra and statistics topics necessary to prepare students for Brief Calculus and Applied Statistics. Develops fluency in the manipulation of polynomial, rational, radical, exponential, and logarithmic functions in order to solve equations, inequalities, and application problems. Familiarizes students with the graphs of the aforementioned functions. Includes nonlinear systems of equations. Covers statistical terminology and the appropriate use of software for the calculation of descriptive statistics, basic probability, correlation and linear regression. (Students may not receive credit for both this course and any of the following: STA 151, MAT 151, MAT 150.)

Lecture: 5 credits (three days a week)

Prerequisite: Pre-requisite: 1. ACT Math of 22 or MAT 071 or MAT 085 or 2. KCTCS placement policy and concurrent enrollment in MAT 161-S or 3. Completion

Components: Lecture Attributes: QR - Quantitative Reasoning,

STA 251 Applied Statistics

Course # 017124-GTWEC

Credit: 1

Grade Level: 11-12 Serves as

the completion course in the statistics pathway. Covers principles of probability, discrete and continuous probability distributions, statistical estimation, hypothesis testing, linear regression, comparisons of populations, goodness of fit, and analysis of variance. Software will be used to aid in statistical computations. (Students may not receive credit for both this course and any of the following: STA 200, STA 210, STA 215, STA 220, STA 291.)

Lecture: 3 credits (45 contact hours).

Prerequisite: Prerequisite: MAT 151 or STA 151 or MAT 161

Components: Lecture Attributes: QR - Quantitative Reasoning,

THOMAS MORE COURSES

HIS 114 US History I

Core Area: History

Course # 002340-TMCEC

Credit: 1

Grade Level: 11-12

History of the United States before 1877. THIS COURSE **DOES NOT** COUNT FOR A COOPER US HISTORY CREDIT.

HIS 115 US History II

Course # 002340-TMCEC

Core Area: History

Credit:

1

Grade Level: 11-12

History of the United States after 1877. THIS COURSE **WILL COUNT** FOR A COOPER US HISTORY CREDIT.

MUS 245 History of Western Music

Course # 500912-TMCEC

Credit: 1

Grade Level: 11-12

Core Area: Fine Arts

This course is an introduction to music fundamentals, music history in western civilization from 1820 to the present including social/philosophical aspects of the times as well as critical listening skills.

NKU COURSES

ART 100 Art Appreciation

Course #457486 - NKU

Credit: 1

Grade Level: 11-12

Examination of the fundamental elements of fine art to increase one's artistic awareness: emphasis placed on developing skills in viewing, interpreting and understanding the use of art in cultural, historical and contemporary contexts. Includes hands-on studio component. For students not majoring in visual arts.

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

SOC 101 Global Inequalities**Course # 459877- NKU****Credit: 1****Grade Level: 11-12** Global Inequality

is the study of ways in which humans construct meanings as they relate to similarities and differences and organize social relationships and activities in ways that advantage some groups over others. Special emphasis is paid to inequalities across and within countries, effects of imperialism and colonialism on linguistic or cultural diversity; theories of cultural development, the interconnections between and differences among local, national, and global communities; and the influence of cultural and socioeconomic background in shaping attitudes and opinions (in themselves and others).

SPB 200 Ritual and Rivalries: International Sport**Course # 459902- NKU****Credit: 1****Grade Level: 11-12** 'Rivalry and

Rituals' uses the socially prominent context of international sports to examine cultural development, influence and conflict within and across persons and geographic boundaries.

PSY 100 Introduction to Psychology**Course # 459902- NKU****Credit: 1****Grade Level: 11-12** Systematic

and scientific study of behavior from biological, behavioral, and cognitive perspectives; methods, history, biopsychology, perception, learning, development, cognition, personality, mental disorders, therapy, and social psychology.

HOMEBUILDERS PROGRAM

The "Homebuilders" program is a collaborative effort with the Building Industry Association of Northern Kentucky. Boone County Schools sends students to the BIA building, located off of Mineola Pike to acquire exploratory courses in Apartment and Building Maintenance. They will be there for ½ of the day and at Cooper for the other ½ of the day.

The program is laid out to be a two year program. The first year is heavily rooted in carpentry. Students complete basic safety training (OSHA 10) and learn how to use a wide variety of tools. They also are introduced to the basics of HVAC, plumbing, and electric. The goal is to give them an overview of an array of careers in the skilled trades. The student after successful completion of the first year will be able to return to complete year two of the sequence.

The purpose of year two is to be able to work in a work based learning experience with a local tradesperson or business. We have previously partnered with the following companies or trades: CVG, Commonwealth Hotels, and plumbing, construction, and HVAC companies. Students have the opportunity to complete this experience and further their understanding of the skills and knowledge required to enter the field.

INTRODUCTION TO BUILDING AND APARTMENT MAINTENANCE**Course # 460241****Credit: 1****Grade Level: 11-12**

This course covers required safety practices in the shop and workplace; identification and use of hand tools used in the construction trades; identification of construction materials; interpretation of blueprints and/or drawings; and exposure to various mechanical and structural systems in a residential structure. Content: Building and Apartment Maintenance Population: General

RESIDENTIAL MAINTENANCE CARPENTRY**Course # 460220****Credit: 1****Grade Level: 11-12**

This course covers the basic aspects of framing, roofing, window, door, and stair maintenance. The student will receive training in the proper use of ladders and in the handling and storage of building materials. Content: Residential/Commercial Carpentry Population: General

RESIDENTIAL MAINTENANCE WIRING**Course # 460333****Credit: 1****Grade Level: 11-12**

This course covers the basic aspects of electric theory, wire and cables, fixtures and devices, and troubleshooting and maintenance wiring. Content: Electrical Technology Population: General

RESIDENTIAL MAINTENANCE PLUMBING**Course # 460516****Credit: 1****Grade Level: 11-12**

This course covers the basic aspects of clearing blocked drains, repairing leaks, repair and replacement of residential plumbing fixtures, and working with copper, plastic, and steel pipes. Content: Plumbing Technology Population: General

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

FIREFIGHTER/EMT PROGRAM

THESE COURSES ARE TAUGHT AT GATEWAY KCTCS CAMPUS AND ARE SUBJECT TO CHANGE. STUDENTS MUST APPLY AND BE ACCEPTED TO GATEWAY. TUITION AND FEES APPLY.

YEAR 1 FIRST SEMESTER

FRS 101 INTRODUCTION TO FIRE SAFETY

Course # 461033-GTW

Credit: 1

Grade Level: 11-12

This course includes fire department organization, fire behavior, firefighter safety, personal protective equipment, portable fire extinguishers, fire hose, appliance and streams.

Lecture: 3 credits (45 contact hours) Components: Lecture Attributes: Course Also Offered in Modules, Technical

FRS 102 FIREFIGHTERS BASIC SKILLS 1

Course # 461032-GTW

Credit: 1

Grade Level: 11-12

Includes ropes, ladders, aircraft rescue, forcible entry, first aid, blood borne pathogens, emergency disaster planning, and CPR.

Pre-requisite: FRS 101 or Consent of Instructor.

Lecture: 3 credits (45 contact hours). Components: Lecture Attributes: Course Also Offered in Modules, Technical

YEAR 1 SECOND SEMESTER

FRS 103 FIREFIGHTERS BASIC SKILLS II

Course # 461035-GTW

Credit: 1

Grade Level: 11-12

Includes building construction, wildland fire behavior, fire control, and ventilation.

Pre-requisite: FRS 102 or Consent of Instructor. Lecture: 3 credits (45 contact hours).

Components: Lecture Attributes: Course Also Offered in Modules, Technical

FRS 104 FIREFIGHTERS INTERMEDIATE SKILLS 1

Course # 461036-GTW

Credit: 1

Grade Level: 11-12

Includes water supply, foam fire streams, fire alarms and communications, hazardous materials awareness, hazardous materials operations, sprinklers, and salvage and overhaul.

Pre-requisite: FRS 103 or Consent of Instructor. Lecture: 3 credits (45 contact hours).

Components: Lecture Attributes: Course Also Offered in Modules, Technical

YEAR 2 FIRST SEMESTER

FRS 105 FIREFIGHTERS INTERMEDIATE SKILLS II

Course # 461038-GTW

Credit: 1

Grade Level: 11-12

Includes fire department organization, fire behavior, personal protective equipment, fire hose, appliances and streams, ropes, forcible entry.

Pre-requisite: FRS 103 or Consent of Instructor.

Lecture: 3 credits (45 contact hours). Components: Lecture Attributes: Course Also Offered in Modules, Technical

FRS 201 FIREFIGHTERS ADVANCED SKILLS I

Course # 461038-GTW

Credit: 1

Grade Level: 11-12

Includes firefighter safety, rescue, ventilation ladders, fire control, and emergency disaster planning. Pre-requisite: FRS 103 or Consent of Instructor.

Lecture: 3 credits (45 contact hours). Components: Lecture Attributes: Course Also Offered in Modules, Technical

YEAR 2 SECOND SEMESTER

EMS 105 EMERGENCY MEDICAL TECHNICIAN (EMT)

Course # 461022-GTW

Credit: 1

Grade Level: 11-12

Provides the first level of training in the career structure of Emergency Medical Services. Integrates didactic course material and the lab component necessary for the delivery of entry level emergency medical care to individuals who are experiencing a disruption in normal body functions due to illness and/or injury and require intervention to prevent morbidity and mortality. Prepares the student to sit for the National Registry EMT examination that is required for Kentucky certification as an EMT. Focuses on basic anatomy and physiology, scene and patient assessment, airway and ventilation, cardiovascular and body systems support, motion limiting devices, wound and fracture management, administration of basic patient medications, extrication, transportation, and patient monitoring as well as medico-legal aspects and ambulance operations. Includes a minimum twenty-four (24) hour clinical observation in the emergency department and/or on a state licensed ambulance service. Pre-requisite: CPR 100 Cardiopulmonary Resuscitation or Current CPR completion card; card must be at the basic life support healthcare provider or professional rescuer level. Lecture/Lab: 6.0 credits (150 contact hours).

Components: Lecture Attributes: Technical

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

Area Technology Center

The Area Technology Center (ATC) offers eight (8) programs of study. Students who apply and are accepted into the program will attend the ATC for three (3) periods a day. Please utilize your 4-year plan worksheet in preparation for taking a program at the ATC. For students wanting precollege curriculum, world language will need to be taken 9th and 10th grade. Students must fulfill their requirements for graduation and have availability in their schedule for three (3) periods during their junior and senior year. In addition, students attending the ATC will be enrolled at Gateway KCTCS and are expected to complete the Dual Enrollment application process for admission to the program. Scholarships are available to help cover Gateway's course fees. It is the responsibility of the student and/or family to pay any fees that are not covered by scholarship. Please be aware that most programs at the ATC also require the purchase of uniforms and/or safety equipment, and must be paid for by the student and/or family.

ATC PROGRAMS

AUTO
TECHNOLOGY

DIESEL
TECHNOLOGY

ELECTRICAL
TECHNOLOGY

METAL
FABRICATION
TECHNOLOGY

PRE-NURSING
PATHWAY

WELDING
TECHNOLOGY

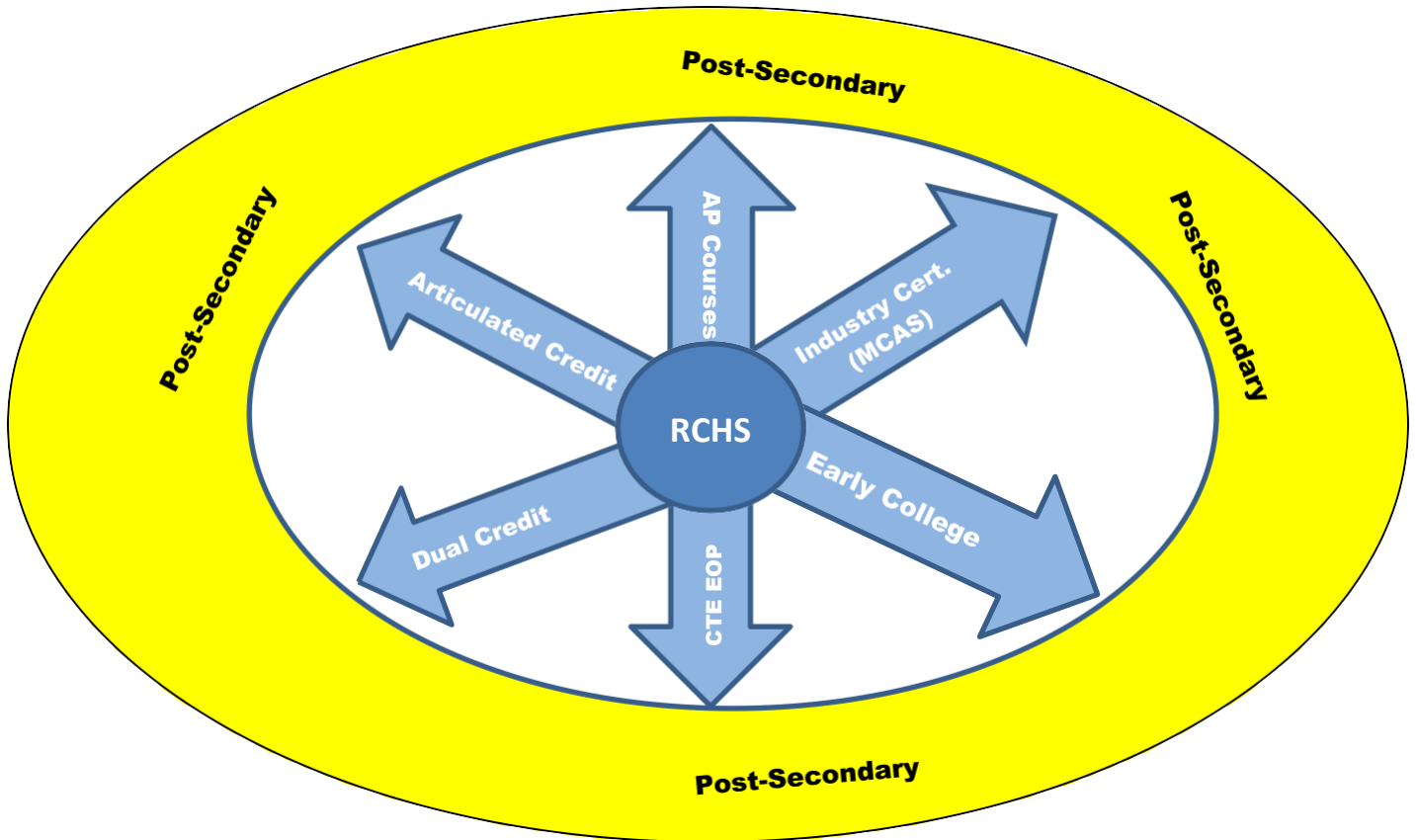
MACHINING
ENGINEERING
TECHNOLOGY

LOGISTICS

Attention Students: Check Cooper's website for summer assignments required in some classes. Schedule changes will not be made.

WAYS TO EARN COLLEGE CREDIT AT COOPER HIGH SCHOOL

There are multiple ways to earn college credit at a free or discounted rate while attending Cooper High School. (See each section in course guide for additional details) Those additional ways include:



Option 1: AP Courses

Taking Advanced Placement Classes and passing the AP exam (see AP courses offered in each subject area)

Option 2: Dual Enrollment through NKU

Courses with credentialed Cooper High School Teachers offered at Cooper HS

Option 3: EARLY COLLEGE through Boone County School District

Through a partnership with NKU/ Thomas More/Gateway Community and Technical College students will attend college for half a day (spending the other half day at their school) at the Boone County Gateway Community and Technical College's Union campus with the potential of earning 24 college credit hours a year. These courses are provided at a dramatically reduced rate of \$174 per course, saving the student thousands in future college expenses. (This would be a savings of \$8,000 for a year's tuition at UK, for example). This also provides students with college-level experiences while students are still in high school, so that they are better prepared for the college experience. The courses are weighted and will transfer to any KY public two- year or four-year college.

Eligibility for this program is a 3.0 GPA. Students must also meet benchmark on the ACT. Transportation will be provided from high schools; students may also drive.

Frequently Asked Questions about Early College

- KEES money is not applicable with Early College classes.
- Each high school will provide transportation to Gateway Community and Technical College; with that said, you need to ask your principal if they will allow you to drive yourself back and forth.
- Books must be purchased and are not included in the price of tuition.
- Some of you were wondering: "what if my child gets a full ride scholarship and we already paid for 1-2yrs. of college- we just lost money?" It is important to note that full rides usually consist of a 4 yr. plan. That means by taking early college you have allowed your child the opportunity to double major because all or most of their general education classes will be out of the way.
- **Early College classes do not count for English II or Algebra II high school credits.**
- English 101 and 102 do count for English III and English IV at high schools.

For more information, please visit the Early College link on the Boone County Schools website or email the program director, Mr. Bill Hogan – bill.hogan@boone.kyschools.us

Option 4: Industry Certification

Students earning industry certification(s) may be eligible for college credits at many colleges/universities. MCAS (Microsoft Certified Application Specialist) Certification is offered through the CTE Department (see CTE section of handbook).

Option 5: Articulated Credit

Articulated Dual Credit (ATC only) in conjunction with Gateway. ATC students are taught by an ATC instructor in an ATC course approved by the Gateway Provost. Students can earn Gateway credit if grade requirements are met for the equivalent Gateway course.

Option 6: CTE EOP (Career and Technical Education End of Program Assessment) Students who complete a CTE career pathway can earn college credit at any of the five major public universities in Kentucky by passing the CTE EOP Assessment for Articulated Credit. Please check with a CTE teacher for more information.

DUAL CREDIT INFORMATION SHEET

Dual Credit Scholarships are available. Dual Credit Scholarships may cover tuition and an application is necessary. Priority is given to seniors. **All tuition is due before the first day of class each semester.**

Questions?	Gateway Regional Academy	NKU School Based Scholars	Thomas More Gemini Program
What does dual credit look like?	<p>College Campus Option:</p> <p>Eligible students can take classes on the Gateway Boone Campus. The classes could be offered from NKU, Gateway or Thomas More.</p>	<p>High School Option:</p> <p>Certified Cooper teachers teach dual enrollment courses on Cooper's campus.</p>	<p>Off Campus Options:</p> <p>Classes are held off campus to prepare students for career options in each field.</p>
What is the criteria?	<p>~3.0 unweighted GPA ~Completed Sophomore year ~Completed application packet</p>	<p>~Completed sophomore year ~High school GPA of 3.0 ~Completed application packet</p>	<p>~ATC—Completed Sophomore year/Completed application ~Fire/EMT—Completed Sophomore year/unweighted GPA of 2.5/completed application ~Homebuilders--Completed Sophomore year/Completed application</p>
What classes are offered at the high schools?	<p>Courses offered on Gateway's Campus in the morning. First three periods of the day.</p>	<p>Examples but not limited to: World Language (French, Spanish, German), Financial Literacy, Entrepreneurship</p>	<p>Examples but not limited to: welding, nursing, auto technology, logistics, fire/EMT course, carpentry</p>
What are the costs?	<p>College Campus Option: ~\$216 ~Textbook</p>	<p>High School Option: ~\$216 per course ~ Textbook</p>	<p>ATC and Fire/EMT program are Gateway courses. These are covered by the work ready scholarship, in which students get two per year. The rest of the courses will be \$216 per class. Homebuilders is no cost.</p>
Will these college credits transfer to other colleges?	<p>Gateway, NKU and Thomas More are regionally accredited institutions whose credits are accepted by most major colleges and universities. Students should consult with the college of their choice as to how their credits would apply.</p>	<p>NKU is a regionally accredited institution whose credits are accepted by most major colleges and universities. Students should consult with the college of their choice as to how their NKU credits would apply.</p>	<p>These credits will transfer to other programs in the state of Kentucky, or they can continue their education at Gateway after graduation.</p>

COURSES OFFERED AT RANDALL K COOPER HIGH SCHOOL

COURSE TITLES	COURSE #	CREDITS	COURSE TITLES	COURSE #	CREDITS
ENGLISH			SCIENCE (cont.)		
English I	230107-1	1	Physics Honors	304821-1H	1
English I Honors	230107-H	1	AP Biology	302646-1	1
English II	230110-1	1	AP Chemistry	304526-1	1
English II Honors	230110-H	1	Forensic Science I	302616-1	0.5
English III	230113-1	1	Forensic Science II	302616-2	0.5
English III Honors	230113-H	1	Earth/Space	304611-1	1
AP English III Language & Composition	230166-1	1	Anatomy/Physiology Honors	302631-2	1
English IV	230116-1	1			
English IV Honors	230116-H	1	SOCIAL STUDIES		
AP English IV Literature & Composition	230167-1	1	Geography	450709-1	1
Creative Writing	230511-1	0.5	World History	450835-1	1
Film Studies	230140-1	0.5	U.S. History	450809-1	1
Journalism	239111-1	1	AP Human Geography	450712-1	1
Mythology	230140-3	0.5	AP European History	450844-1	1
Yearbook Production I	239141-1	1	AP U.S. History	450814-1	1
Yearbook Production II	239142-1	1	Contemporary U.S. History	450878-1	0.5
Yearbook Production III	239143-1	1	History Through Film	003003	0.5
Graphic Novels	230140-7	0.5	Psychology	459901-1	1
			AP Psychology	459902-1	1
MATHEMATICS			Sports, Society & Culture	003001	0.5
Algebra I	270304-1	1	AP US Government & Politics	451030-1	1
Geometry	270401-1	1	Hist. & Literature of the Biblical Era	459813-1	1
Geometry Honors	270401-H	1	America's Modern Wars	450878-2	.5
Algebra II	270311-1	1			
Algebra II Honors	270311-H	1	CAREER AND TECHNICAL EDUCATION		
Algebra III Honors	270321-H	1	AGRICULTURE		
Pre-Calculus Honors	270501-1H	1	Agri-Biology	030713	1
Probability and Statistics Honors	270602-1H	1	Animal Science	020501-1	1
Mathematics Intervention	270309-1	1	Equine Science	020510-1	1
AP Calculus AB	270513-1	1	Floriculture and Floral Design	010621-1	0.5
AP Calculus BC	270514-1	1	Greenhouse Technology	010641-1	1
AP Statistics	270604-1	1	Landscaping and Turf Mgmt. (Fall)	010631-1	0.5
KSU College Algebra (DE)	270320-KSU	1	Landscaping and Turf Mgmt. II (Spring)	010631-2	0.5
Engineering II	210222-1	1	Principles of Ag. Science and Technology	030715-1	1
Civil Engineering and Architecture	219905-1	1	Veterinary Science	020511-1	1
Aerospace Engineering	210229	1	Contemporary Issues in Ag. (DE)	030725	1
Introduction to Programming	110201-1	1			
Java Programming 2 Honors	110206-H	1	BUSINESS		
AP Computer Science A	110701-1	1	Accounting and Finance Foundations	060122-1	1
AP Computer Science Principles	110711-1	1	Advanced Multimedia Publishing Honors	060761-H	1
			Marketing Applications	080717-1	1
			Introduction to Management	060411-1	1
SCIENCE			Digital Literacy	060112-1	1
Integrate Science	303091-1	1	Microsoft Office Honors (MOS/MCAS)	070750-H	1
Biology I	302601-1	1	Marketing Principles	080716-1	1
Agri-Biology	030713	1	Retail Marketing	081411-1	1
Biology I Honors	302601-H	1	Sports and Event Marketing	081121-1	1
Chemistry	304521-1	1	Internships	See descriptions	1 to 2
Chemistry Honors	304521-H	1	Office Assistant	909020-1	0.5
AP Physics C: Mechanics	304825-1	1	Peer Tutoring	906010-2	0.5
AP Physics C: Electricity and Magnetism	304826-1	1	Personal Finance	060170-1	1
Introduction to Chemistry and Physics	304058	1	FLC 101- Pathways to Financial Success DE	002554-1	1
AP Environmental Science	304622	1	ENTP 305 Intro. to Entrepreneurship	080310	1

ENGINEERING			WORLD LANGUAGES		
Engineering I	210221-1	1	HS WL French I	160408-1	1
Engineering II	210222-1	1	HS WL French II	160409-1	1
Civil Engineering and Architecture	219905-1	1	NKU French 101 (DE)	160430-NKU	1
Aerospace Engineering	210229	1	NKU French 102 (DE)	160411-NKU	1
Introduction to Aerospace and Aviation	210226	1	HS WL German I	160508-1	1
			HS WL German II	160509-1	1
			HS WL German III	160510-1	1
FAMILY AND CONSUMER SCIENCE					
FCS Essentials	200113-1	1	HS WL Spanish I	161108-1	1
Culinary Arts 1	200411-1	1	HS WL Spanish II	161109-1	1
Culinary Arts 2	200412-1	2	HS WL Spanish II Honors	161109-H	1
Foods & Nutrition	200441-1	1	HS WL Spanish III Honors	161110-H	1
Fashion & Interior Design I	200821-1	1	HS WL Spanish IV Honors	161111-H	1
Fashion & Interior Design II	200825-1	1	NKU Spanish 101 (DE)	002153	1
Fashion & Interior Design III	200826	1	NKU Spanish 102 (DE)	002154	1
			NKU Spanish 201 (DE)	002111	1
			NKU Spanish 202 (DE)	002112	1
			American Sign Language I	160208	1
INFORMATION TECHNOLOGY					
AP Computer Science A	110701-1	1			
AP Computer Science Principles	110711-1	1			
Introduction to Programming	110201-1	1	HEALTH & PHYSICAL EDUCATION		
Java Programming 2 Honors	110206-H	1	Physical Education I	340216-1	0.5
Project Based Programming	110226-1	1	Health Education I	340133-3	0.5
			Aerobics	340215-1	0.5
			Fundamentals of Dance	500311-2	0.5
			Advanced Physical Education	340219-2	0.5
			Wellness	340133-4	0.5
			Gross Motor Development	909999-GMD	1
			Gross Motor Development 2	909999-GMD2	1
THE ARTS					
Ceramics/Pottery	500212-1	0.5			
Drawing/Painting	500712-1	0.5			
Visual Communication Design	500720-2	0.5			
HAVPA Survey/Fine Arts	500111-1	1			
Visual Art-Photography	500611-1	0.5			
Comprehensive Visual Arts I	500711-1	0.5			
Visual Art-Art Portfolio II	500714-2	1			
Comprehensive Visual Arts III Honors	500711-3H	1			
AP Studio Art 2D Design	500722-1	1			
AP Studio Art 3D Design	500723-1	1			
Chamber Choir	500925-11H	1			
Men's Choir	500925-04	1			
Treble Choir	500925-15	1			
Women's Ensemble I Honors	500926-2H	1			
Music-General Band	500913-1	1			
Percussion Ensemble	500921-2	1			
Wind Ensemble Honors II	500918-2H	1			
AP Music Theory	500929-1	1			
History of Rock-N-Roll	500912-4	0.5			
Introduction to Theatre	500511-1	0.5			
Theatre: Acting/Performance	500513-1	0.5			
Music in New Media	500912	0.5			



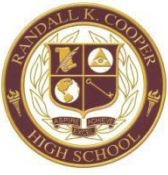
RANDALL K. COOPER HIGH SCHOOL 4 YEAR GRADUATION PLAN

Name _____ Grade: _____ Date: ___/___/___

This is a tentative plan to give you and your parents some direction as you progress through your high school career at Cooper High School. We want students to be able to take advantage of all Cooper has to offer. This will require some pre-planning on your part. You may have to “double up” in a content area to be able to reach the capstone class. We also offer dual enrollment and interning options which will require you to plan ahead. We do not want you to miss out on opportunities at Cooper High School! Please contact your JAM teacher, guidance counselor, or administration if you have any questions. It’s a team effort and everyone is here to help you *Aspire, Achieve, and Excel!*

Graduation Requirements	22 credits	9 th	10 th	11 th	12 th
Core Subjects	17				
English	4				
Math	4				
Science	3				
Social Studies	3				
Health/PE	1				
Arts & Humanities	1				
Career and Technical Education	1				
*World Language (Minimum for Pre-College Curriculum)	*2				
Electives	5-7				
Electives					
Electives					
Electives					
Other					
Total	24 credits possible				

<u>Class Status</u>	<u>Credits Needed (Class of 2018 and beyond)</u>
Sophomore	<u>5</u>
Junior	<u>11</u>
Senior	<u>16</u>
<u>Minimum To Graduate</u>	<u>22</u>



RANDALL K. COOPER HIGH SCHOOL
Contract for Requesting Courses

Student Name _____

Date: ___/___/___

Career Interest/PATHWAY _____ Current Grade _____

Special recognition you are seeking (Please circle 1):

KY Scholars Diploma AP - Cum Laude Magna Cum Laude Summa Cum Laude

Please carefully review the current RCHS course guide to make informed decisions regarding course selections for next school year. Consider career/ personal interests, obligations (sports, clubs, activities), and parental and current teacher input to create an appropriately challenging yet balanced schedule. Reflect on how this schedule will fit with your four year graduation plan and your ILP. Please choose wisely since these course selections are final, and THERE WILL BE NO SCHEDULE CHANGES. The box below should contain courses totaling 6 credits:

Table with 4 columns: Course Number, Course Title, Credit (1/2 or 1), and Teacher Approval. Rows 1-10 for course selection.

Number of Requested Credits (should be 6)



Do not leave blank! Alternate courses are essential.

Alternate Courses:

Table for alternate courses with columns: Course #, Course Title, Teacher's Initials. Rows 1-3.

Your signature below indicates you have carefully reviewed your selections, have reviewed any summer assignments required for the courses and are agreeing to take the above courses. Your signature also indicates you understand that there will be NO REQUEST CHANGES after you turn in this form and that you have discussed this schedule with your current teachers and your parent or guardian.

JAM Teacher Signature _____

Student Signature _____

Parent Signature _____

ON-LINE SCHEDULING DIRECTIONS

Students in grades 10-12 will complete their course requests through the on-line scheduling process. Please use the following instructions to complete the on-line scheduling process.

- ▶ Course Requests are located in Campus Portal
 - ▶ Window will be open to request electives January 31st – February 6th
 - ▶ Login to Campus Portal
 - Click “Course Registration” (on left)
 - Click ‘COURSE SEARCH’
 - Search course name/number
 - Click ‘GO’
 - Click ‘REQUEST THIS COURSE’ (Electives)
- OR
- Click ‘REQUEST AS ALTERNATE (6 Alternates)

Please print a copy for you records.

*Logoff when 24/28 “units” show at top of requested units.

WE ARE COOPER

SCHOOL CREST DEFINED



TORCH- Achievement through education

SCROLL-Passing of knowledge

GLOBE- The feeling of preparedness for no matter where one may travel, His education stands him in good stead

KEY- Unlocking of the doorway to education, to culture friendships, to unlock prejudices

TRIANGLE W/EYE- Intellect in action working toward goals

LEAVES-Achievement