



The Riverside Campus Course Description Catalog

Updated January 2023

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****Information in this booklet may change at any time without notice****

PURPOSE

The Riverside Campus Course Description Catalog is intended to assist students and parents in the course selection process. This booklet provides a master list of current course offerings along with a brief course description.

Riverside High School provides a variety of educational experiences and programs in an attempt to serve the variety of interests, abilities, and goals of its students. Every effort will be made to ensure that students are enrolled in the courses they and their parents select. However, insufficient enrollment causing the cancellation of specific classes or scheduling conflicts may require the student to select alternative courses.

Serious thought should be given to the type of specialized program of instruction to be selected in grades nine through twelve. Such decisions should be made in terms of the goals and abilities of the student and the program of studies available. Parents, teachers and school counselors will assist the student in arriving at worthwhile decisions.

Once an initial plan is selected, it should be reviewed periodically to ascertain whether or not the plan remains a good one. Conditions for individuals change from time to time; what once seemed like a good idea may now be inappropriate. If this applies to a selected program of study, appropriate changes should be made as soon as possible and practical.

SCHOOL COUNSELORS: 2023 - 24 School Year

| | |
|--|---------------------|
| Mrs. Jamie Clark - class of 2028 jamie.clark@riversideschools.net | 440-352-3345 x 4307 |
| Ms. Alyssa Winer - class of 2027 alyssa.winer@riversideschools.net | 440-352-3345 x 8331 |
| Ms. Anne Dalby - class of 2026 anne.dalby@riversideschools.net | 440-352-3341 x 4314 |
| Mr. Scott Bailis - class of 2025 scott.bailis@riversideschools.net | 440-352-3341 x 4311 |
| Mrs. Karin Pennock - class of 2024 kari.pennock@riversideschools.net | 440-352-3341 x 4312 |

ART DEPARTMENT

All courses in the Art Department meet the Fine Arts Requirement for graduation

ART101/102 ART 1 – 2 semesters – 1 credit (9, 10, 11, 12)

*Prerequisite: **Successful completion of 8th-grade art is helpful***

Art 1 is the introductory course in art. This course is designed to expose the beginning art student to a variety of art experiences including drawing, painting, two and three-dimensional design and printmaking. Students will be required to complete original artwork that is not traced or copied from outside sources. Work is done on a project basis and is graded on an individual rubric based on the following criteria: craftsmanship, value, color, composition, technique, drawing, proportion, design, growth, studio habits and reflection. Written tests and exams will be based on vocabulary and art concepts, materials and techniques. Students will be required to create a digital portfolio of their work.

ART110 ART APPRECIATION – 1 semester – ½ credit (9, 10, 11, 12)

The course is designed to provide students with a basic awareness of the elements and principles of art. Students who have not taken an art course since 8th grade are eligible for this course. Projects are often related to historical periods in art and major artists. Students will be expected to come to class every day prepared to create artwork, participate in class discussions, take notes, do research on their own, and complete written assignments.

ART120 SCULPTURE - 1 semester - ½ credit (9,10,11,12)

Sculpture class is a studio art class where students create three-dimensional art projects using a variety of materials to explore form and texture. The curriculum is “project-based,” thus individual rubrics are provided based on the following criteria: craftsmanship, form, color, composition, technique, proportion, design, growth and reflection. Some written tests and exams will be included in the curriculum and are based on vocabulary, art concepts, materials, and techniques.

ART130 - POP CULTURE ART - .25 Credit - 1 quarter

The course must be taken along with **MUS130 - POP CULTURE MUSIC**

Students will take 9 weeks of a Pop Culture Art Class and Nine weeks of Pop Culture Music Class and complete a cumulative exam at the end of the semester covering material from both classes. Combined both classes will fulfill ½ of the required fine arts credit for graduation.

This would be a collaborative class between the Music and Art Department in which students will explore the Pop Art Movement beginning in the late 1950’s and its effects on our culture as well as its influence on Modern and Contemporary Art. In the Pop Art portion of the class students will explore the Pop Art Movement through studying the big hitters of the movement such as Andy Warhol and Claes Oldenburg and explore how these artists changed the game for the art world. They will also study the artists that followed in the Pop Art style and explore how the original Pop artists influenced art and American culture today. Students will be required to take notes, have discussions, complete presentations, complete assessments and create their own masterpieces in the style of the artists.

ART201/202 ART 2 – 2 semesters – 1 credit (10, 11, 12)

*Prerequisite: **Successful completion of ART 1 and Teacher Recommendation***

This course expands and further develops the fundamental skills learned in Art 1, and introduces new materials and techniques. During the course, every effort is made to acquaint the student with the vastness of the field of art as well as assisting the development of the student's own unique, individual style. Projects are evaluated on the student's individual development rather than in comparison with the works of others in the class. Written tests and exams will be based on vocabulary and art concepts, materials and techniques. Students will be required to create a digital portfolio of their work.

ART210 PHOTOGRAPHY – 1 semester – ½ credit (10, 11, 12)

An introduction to the fundamentals of photography, this course concentrates on using negative films for prints and use of a darkroom. Basic camera operation, shutter speed, aperture, proper film selection, light metering, film exposure, image composition, and lens selection are topics covered. Darkroom techniques including film and paper processing are implemented. Students will be responsible for researching other photographers, completing written assignments, and keeping a journal. **STUDENTS MUST HAVE ACCESS TO A 35 MM SLR FILM CAMERA WITH AN ADJUSTABLE SHUTTER, APERTURE, AND LENS.**

ART220 PHOTOGRAPHY 2 - 1 semester – ½ credit (10, 11, 12)

*Prerequisite: **Teacher recommendation***

Students take what they learn in Photography 1 and build on it with experimental techniques and projects. This class has an independent self-guided course of study that requires the student to work predominantly on their own meeting with the teacher at least 3 times a week to discuss progress. Enrollment in this class requires flex credit paperwork and approval by the teacher. Students are required to create a portfolio of their work and present it at the end of the semester. Students earn one final grade.

ART230 PHOTOGRAPHY 3 – 1 semester – ½ credit (11, 12)

*Prerequisite: **Teacher recommendation***

Students use their previous knowledge of composition and darkroom editing and apply it to digital photography. Students take photographs on a regular basis and learn the basics of computer editing software to enhance photographic compositions. It is helpful for a student to have access to a digital SLR camera. This class has an independent self-guided course of study that requires the student to work predominantly on their own, meeting with the teacher at least 3 times a week to discuss progress. Enrollment in this class requires flex credit paperwork and approval by the teacher. Students are required to create a portfolio of their work and present it at the end of the semester. Students earn one final grade for the class at the semester.

ART240 PHOTOGRAPHY 4 – 1 semester – ½ credit (11, 12)

*Prerequisite:Prerequisite: **Teacher recommendation***

The objective of the class is to give Photography students a chance to use the darkroom and editing software to build their portfolio for college. Students are required to create a portfolio of their work and present it at the end of the semester. This class has an independent self-guided course of study that requires the student to work predominantly on their own, meeting with the teacher at least 3 times a week to discuss progress. Enrollment in this class requires flex credit paperwork and approval by the teacher. Students earn one final grade for the class at the semester.

ART301/302 ART 3 – 2 semesters – 1 credit (11, 12)

*Prerequisite: **Successful completion of Art 2 and Teacher Recommendation***

Individual expression of original thoughts and ideas is stressed in this course. New media and techniques will be introduced. Students will use elements of design to produce original, creative works. Written tests and exams will be based on vocabulary and art concepts, materials and techniques. Students will be required to create a digital portfolio of their work.

ART401/402 ART 4 – 2 semesters – 1 credit (12)

*Prerequisite: **Successful completion of Art 3 and Teacher Recommendation***

This advanced studio class is dedicated to the creation of works appropriate to the student's portfolio. Students will utilize previously learned skills to produce creative works that will involve mastery of media as well as expansion of imaginative visual imagery. Some projects will involve independent inquires and research as students will create projects of their choice within given topics. Students will be required to create a digital portfolio of their work.

BUSINESS EDUCATION DEPARTMENT

Courses in this department may be combined to provide entry-level skills to students wishing to enter the business world or provide a framework for students to continue their studies beyond high school. Courses are also provided to help students learn life skills such as using Microsoft Word, Excel, and PowerPoint, and mastering computer applications.

BUS100 MICROSOFT APPLICATIONS - 1 semester - ½ credit - (9, 10, 11, 12)

*Satisfies graduation requirement for **Technology***

Microsoft Applications teaches intermediate features of Microsoft Suite. Students will explore computer skills and applications needed on a personal, school/college, and career level. The focus of this course is to provide knowledge and skills associated with Microsoft Office applications including Word, Excel, PowerPoint, and Publisher. Students will create various documents: reports, business letters, tables, newsletters, spreadsheets, and brochures. The course is aligned with International Society for Technology in Education (ISTE) as well as the Ohio SchoolNet Learner Technology Profiles.

BUS111/112 COMPUTER SCIENCE ESSENTIALS - 2 semesters - 1 credit (9, 10)

*Satisfies graduation requirement for **Technology***

Computer Science Essentials exposes students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and gain confidence. Students use visual, block-based programming that allows for transition to text-based programming using languages such as Python to create apps and develop websites, and learn how to make computers work together to put their design into practice. They apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them. This course aligns with the International Society for Technology in Education (ISTE) standards.

BUS200 DIGITAL MEDIA - 1 semester - ½ credit (10, 11, 12)

*Satisfies graduation requirement for **Technology***

This is an introductory course designed to educate students on the ever-changing digital world, as well as to provide hands-on experience with industry-standard software and equipment. Through the study of digital media and its application in information technology, students will design and create multimedia projects. Topics covered in the curriculum include graphic design, animation, audio production, and video production. This course aligns with the International Society for Technology in Education (ISTE) standards.

BUS211/212 COMPUTER SCIENCE PRINCIPLES - 2 semesters - 1 credit (10, 11, 12)

*Prerequisite: **Successful Completion of Computer Science Essentials (BUS111/112)***

Using Python as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. CSP helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. This course aligns to the AP CS principles framework and with the International Society for Technology in Education (ISTE) standards.

BUS221/222 ACCOUNTING 1 – 2 semesters – 1 credit (10, 11, 12)

Accounting I prepares students for an entry-level job in the accounting field. This course also prepares the college-bound student with a firm accounting background for a career in business and finance. Students will learn accounting principles by applying them daily in the classroom. The accounting principles taught in this course can be applied to personal budgeting and finance. Students will also be introduced to Automated Accounting and complete an online simulation.

BUS241/242 PRINCIPLES OF BUSINESS/SCHOOL STORE - 2 Semesters - 1 Credit (10, 11, 12)

In this engaging, hands-on course, students will learn about the key principles of business and put those skills into real-world practice by managing and operating an active school storefront. The key principles covered in this course will include: production, management, operations, accounting, and marketing. Students will showcase the business skills they've learned by working in the school store during class time and outside of regular school hours.

YRB201/202- RHS YEARBOOK - 2 semesters - 1 credit (10, 11, 12)

In this cross-curricular, project-based class, students work collaboratively by using technology to digitally produce the annual Riverside High School yearbook. In this course, students will gain skills in page design, advanced publishing techniques, copywriting, editing, and photography while producing a creative, innovative yearbook to tell the story of the school community in an engaging way. Participants gain useful, real-world skills in time management, marketing, teamwork, and design principles. Students will be expected to attend some after school activities to conduct interviews, take photographs, and gather other journalistic-copy materials.

ENGLISH DEPARTMENT

ENG101/102 ENGLISH 1 - 2 semesters - 1 credit (9)

This class will blend the college board PreAP Eng 1 curriculum with our local curriculum and standards. During the course of the year, students receive instruction in reading analysis of literature and writing with an introduction to the research paper. The literature units focus on short stories, poetry, drama, and novels. Literary terms, composition, and analysis skills are also taught. Students should be reading at or above grade level. Students should have a good work ethic and have a basic mastery of the fundamentals of spelling, punctuation, and sentence formation in order to achieve success in this class.

ENG111/112 ENGLISH 1 Honors - 2 semesters - 1 credit (9) - GPA Weighted Course

Prerequisite: English 8 Honors or English 8 teacher recommendation

This course will focus on the college board PreAP Eng 1 curriculum and will move at an accelerated pace. The four units covered in this course include short story, poetry/drama, informational text, and novel. Students will study sentence construction, editing, and vocabulary as well as analysis of literature. Students will be expected to read several works on their own, and they will write several extended essays including informative, persuasive, analysis and research. Long-term projects will complement their reading assignments. Students should read well above grade level, demonstrate an excellent self-motivation and work ethic, and have mature behavior and attitude. Summer reading will be required.

ENG120 – INTRODUCTION TO THEATRE - 1 semester – ½ credit (9, 10, 11, 12)

Meets Fine Art requirement for graduation

The course begins with practice in posture, voice control, pantomime, improvisation, and characterization. The theory portion of the class includes the structure, styles, and history of drama. Drama offers experience in all phases of play production, including student-selected scenes that are presented to the class. Student awareness of theater activity is encouraged through reports of Broadway musicals and attendance of production (field trip), if possible. Students prepare a one-act with a production team.

ENG201/202 ENGLISH 2 - 2 semesters - 1 credit (10)

Prerequisite: English 1

This class will blend the college board PreAP Eng 2 curriculum with our local curriculum and standards. Students will explore issues and themes unique to the American experience and make connections with major American writers. In addition, students will explore art, music, and film in a cross-curricular approach to enhance their understanding of who we are as a nation. Students will demonstrate their understanding of literary concepts through writing assignments based on reflection, analysis, and research.

ENG 211/212 ENGLISH 2 Honors - 2 semesters - 1 credit (10) - GPA Weighted Course

Prerequisite: English 1 Honors or English 1 teacher recommendation

This course will focus on the College Board Pre AP English 2 curriculum and will move at an accelerated pace. Designed to prepare students for AP Language and Composition. Literature and nonfiction centers around journeys, both literal and figurative. This course also has an intense focus on expository and research writing. Student write multiple research pages of extended length. Summer reading will be required.

ENG220 CREATIVE WRITING – 1-semester ½ credit (11,12)

Prerequisite: English 2 CP

The student is introduced to methods of creative writing as well as the basic principles of journalism. Various writing projects including poetry and prose are required. Students keep a writing journal and are urged to see their surroundings with a fresh viewpoint. Critical evaluation of the students' projects will be included. Students will produce a literary/journalistic magazine at the end of the semester.

ENG301/302 LITERATURE & FILM – 2 semesters – 1 credit (11)

Prerequisite: English 2

This course will allow students to study film and its relationship to literature. Students will learn how to recognize, explain, analyze and evaluate the literary, dynamic, and cinematic aspects of film. You will consider what happens when a variety of short stories, plays, and novels are made into a film. You will also examine how we approach film and literary texts differently, as well as how we view and read these texts. Students will be requested to be active participants in film viewings and discussions.

ENG311/312 GOTHIC LITERATURE – 2 semesters – 1 credit (11)

Prerequisite: English 2

This course will allow students to examine themes, conventions, formal structures, and historical contexts to explore how the Gothic tradition evolved into a sophisticated form for addressing unspoken fears and unconscious desires. By reading and analyzing short stories, poetry, novels, and nonfiction, students will attempt to understand society's collective cultural fears and draw contemporary connections. Additionally, students will further develop their writing skills through a series of compositions that will enhance their abilities to think critically, argue persuasively, and write sophisticated prose that adheres to conventional standards of grammar and usage.

ENG321/322 ENGLISH LANGUAGE & COMPOSITION AP – 2 Semesters – 1 credit (11)
GPA Weighted Course

Prerequisite: *English 2 Honors or English 2 teacher recommendation*

Students enrolled in this course will be required to take the Advanced Placement exam in May.

This course engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Through their writing and reading, students demonstrate their knowledge and understanding of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language, contribute to effectiveness in writing. This course focuses primarily on nonfiction works, with some incorporation of literature, and students write the following types of essays: rhetorical analysis, argumentation, and synthesis. Students are strongly encouraged to take the AP English Language and Composition Exam in May, through which college credit may be earned. **Summer reading will be required.**

ENG401/402 ENGLISH 4 - 2 Semesters - 1 credit (12)

Prerequisite: *Literature & Film or Gothic Literature*

This class allows students to explore their career paths while improving their professional and personal writing and researching skills. Writing for resumes, personal essays, technical manuals, written documentation, reports and informational writing will be structured and developed. Fiction and Non-fiction elements will be introduced to spark conversation and written responses. Students will focus on complete and comprehensive responses, making relevant connections, inferences, and applications to their own community.

ENG411/412 ENGLISH 4 SEMINAR - 2 Semesters - 1 credit (12)

Prerequisite: *Literature & Film or Gothic Literature*

Focusing on college and career preparation, this class will allow students to enhance their writing, research, and analytical skills. Personal and academic essays will be developed along with other writing and reading applications that reflect the needs of a first-year college student and/ or a professional work environment. After an introduction to the foundations of philosophy, students will have the opportunity to select and develop their own research and presentation plans which will allow for personalized learning. Students taking this course will need to develop strong organizational, communication, and time management skills.

ENG421/422 ENGLISH LITERATURE & COMPOSITION AP - 2 Semesters – 1 credit (12)
GPA Weighted Course

Prerequisite: ***English Language & Composition AP or 11th Grade English teacher recommendation***

Students enrolled in this course will be required to take the Advanced Placement exam in May.

This course continues the critical and close reading of a variety of poems, plays, short stories, and novels. Students also focus on the principles of literary criticism. Students explore the writing process as they learn various techniques by studying professional writers and applying these techniques in their own compositions. Students will learn about elements of the Advanced Placement English Literature and Composition Examination and begin their preparation for university courses in literature and composition. **Summer reading will be required.**

LDS301/302 LEADERSHIP & ENTREPRENEURIAL MINDSET – full year – 1 credit (11, 12)

Prerequisite: ***Students who register for this course must meet with Mrs. McIntyre, Mr. Eckles, and Mr. Schussler prior to the end of the current school year.***

Over the course of this year-long Project-Based class, students will focus on developing problem-solving, collaboration, presentation, and inquiry skills. Practical application will include serving as 8th Grade SIDE Mentors during advisory, serving as leaders for various Riverside events and activities, and developing and implementing projects that will improve the Riverside Community.

LDS401/402 Leadership & Service - full year - (12)

Prerequisite: ***Leadership & Entrepreneurial Mindset (LDS301/302)***

Over the course of this year-long project-based class, students will continue to work on their problem solving, collaboration, presentation, and inquiry skills. Having already taken Leadership & Entrepreneurial Mindset, these students will serve as leaders in class, in SIDE Advisories, and within our district. Building upon the previous year, students will learn about and provide service to our Riverside Community.

HEALTH AND PHYSICAL EDUCATION

HLT100 HEALTH – 1 semester – ½ credit (9)

The course is designed to contribute to the optimal health of students. Content areas include mental and emotional health; causes, prevention, and control of diseases; use and misuse of tobacco, alcohol, and drugs; human sexuality; emergency response; fitness and nutrition. A wide variety of methods and activities are used to present information in specific content areas. These include: small group discussion, use of current video; application of related computer programs; use of current articles; as well as guest speakers with expertise in a given area.

PE0110 PHYSICAL EDUCATION – 1 semester – ¼ credit (9)

This course is designed to allow for active competitive participation in a variety of team, partner, and individual sports. The use of a focused tactical approach will allow students time to develop game skills concepts, tactics, and strategies that can transfer across different categories of games. While using the sports education model, students will become more aware of every aspect of the sport while developing a positive cooperative atmosphere that promotes psychomotor, cognitive, and affective development. Students will utilize the Riverside Campus' athletic performance center (RAPC) as they are exposed to strength training and conditioning.

PE0210 LIFETIME WELLNESS – 1 semester – ¼ credit (10)

This course is designed to promote proficiency in a variety of general fitness activities in order to promote a healthy lifestyle. Through active participation, students will also develop basic knowledge and experience in free weight training, walking for fitness, agility, cardiovascular exercise, interval training, pilates, yoga, and general flexibility methods. This course will promote the improvement of all of the components of fitness, knowledge of nutrition concepts, and general overall health.

PE0220 GAMES – 1 semester – ¼ credit (10)

This course is designed to introduce students to a variety of competitive and non-competitive activities that can be pursued throughout life. Students will be able to demonstrate physical skills as well as show the knowledge of tactics and strategies in a variety of authentic and small-sided games. The use of a focused tactical approach will allow students time to develop game skills concepts, tactics, and strategies that can transfer across different categories of games. While using the sport education model, students will become more aware of every aspect of the sport while developing a positive cooperative atmosphere that promotes psychomotor, cognitive, and affective development. Students will also develop social skills to work cooperatively while aiding in providing a positive learning atmosphere for everyone within a physical setting.

PE0230 TRAINING and CONDITIONING – 1 semester – ¼ credit (10)

This course is designed to promote proficiency in strength, general conditioning, and personal fitness through a variety of activities. Students will be introduced to proper lifting techniques while promoting a safe and appropriate atmosphere. Through active participation, students will also develop a basic knowledge of weight training techniques, safety precautions, guidelines for setting up a weight training program, and the importance of flexibility and agility. This course will promote the improvement of the components of fitness, knowledge of nutrition concepts as they relate to an active life and overall personal fitness. This course will include sport-specific plans for strength and conditioning. This course may be taken multiple times in future semesters, once your Physical Education graduation requirement has been met.

APPLIED TECHNOLOGY DEPARTMENT

**** Indicates it meets Technology Requirements**

IND100 EXPLORING TECHNOLOGY & ENGINEERING 9 ** – 1 semester – ½ credit (9)

This course allows students to explore basic technology and engineering concepts and principles along with related career fields. Topics include technical drawing, computer-aided drafting (CAD), construction, transportation, and electricity. All activities are structured to integrate science, mathematics, and language arts. This course and its hands-on projects will help students interested in construction, technical or engineering career fields.

IND110 WOOD TECH 1 – 1 semester – .50 credit (9, 10, 11, 12)

This course offers students an introduction to basic woodworking skills. Safety is the primary concept taught in this course as students learn how to work and act in a shop setting. Students learn from the beginning fundamental skills such as: reading the ruler, sharpening tools, the safe use of hand and power tools, and how to operate industrial woodworking machines. Various Ohio mathematical standards are reinforced as students become comfortable measuring with a ruler and using fractions. The importance of properly cared for hand tools is stressed and students also learn how to clean and maintain a safe wood shop. All aspects of safety are stressed where students learn how to not only conduct themselves properly in a shop but also the correct ways to use both hand tools and power equipment. Students will complete three required projects, a mail organizer, jewelry box and a pedestal table.

IND210 WOOD TECH 2 – 1 semester – .50 credit (9, 10, 11, 12)

*Prerequisite: **Woodworking Technology 1***

In this course, students will expand on the basic skills learned in Woodworking 1. Students interested in both interior design and cabinet making should excel in this class as creativity is encouraged in individual projects. Safe work habits are expected during the class with students taking more responsibility in the shop. Students are required to either procure existing plans or develop ones incorporating both function and design. Ohio mathematical standards are continually addressed using measurement and geometry.

IND220 ENGINEERING & ARCHITECTURAL DESIGN 1** – 1 semester – 1/2 credit (10, 11, 12)

This course provides students with the opportunity to explore the basic drafting skills required by many professions such as engineering, architecture, construction, and technical trades. The course will introduce students to traditional drafting techniques, including multi-view, pictorial, and perspective drawings. Students will learn dimensioning and technical sketching skills as well as precision measuring and scaling. Students will then be introduced to AutoCAD, which is the industry standard for computer-based design, engineering, and drafting. Students are encouraged to maintain a portfolio of their work for entry into a college program or technical school.

IND230 INTRODUCTION TO ENGINEERING** - 1 semesters - 1 credit (9, 10, 11, 12)

Students dig deep into the engineering design process, applying math, science and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of projects using 3-D modeling software, and use an engineering notebook to document their work.

IND251/252 ENGINEERING & ARCHITECTURAL DESIGN 2** –

2 semesters - 1 credit (10, 11,12)

*Prerequisite: **Engineering and Architectural Design 1***

An accelerated engineering drawing course for students interested in careers in engineering, architecture, design, or computer-assisted drafting. Orthographic projection (multi-view drawing) is taught. Correct dimensioning practices are used and auxiliary views developed. Sections (cut-away views that describe the interior of objects) and isometric (pictorial) drawings are completed. The use of computers for drawing purposes is introduced. This course also will describe basic house construction. The site, foundation, and floor plans will be developed. Emphasis will be placed on kitchen design. Students will frame a model house of their design. Elevations will be drawn. Computer-assisted drawing techniques will be utilized where appropriate.

CAREER ELECTIVE

WLD401/402 - Welding - 2 semester - 3 credits - (11,12)

This course meets for two blocks, **every day**. The morning session meets 1st and 2nd block and the afternoon session meets 3rd and 4th block. Students will have the opportunity to gain AWS Welding Procedure Certification in several welding processes. Students will be expected to take an online safety course. Students will be required to purchase welding safety equipment and dress for an industrial setting in the lab daily.

WORLD LANGUAGE DEPARTMENT

It is recommended that the student pass the first semester of a language course, or have written permission of the instructor to continue in the class the second semester.

FGN101/102 FRENCH 1 – 2 semesters – 1 credit (9, 10, 11, 12)

Emphasis is on developing comprehension of spoken French and a basic understanding of high-frequency vocabulary, phrases, and structures through listening, reading, writing, and speaking. Topics include greetings, introductions, alphabet, accent marks, numbers, commands, classroom objects, self, family, physical and personality descriptions, school subjects, school activities, calendar, time and date. Students can expect to express personal likes, dislikes, preferences and basic personal information including how often they do activities. They will be able to ask about and identify individuals and tell what they need. People, cultures and countries of the Francophone world are introduced.

FGN201/202 FRENCH 2 – 2 semesters – 1 credit (10, 11, 12)

Prerequisite: French 1 teacher recommendation

The focus is the further development of the French language in terms of comprehension and speaking skills, as well as increased exposure to the written language. New grammar concepts are presented such as the near future, the past tense, the imperative and several verb categories: -er, -ir, -re, irregular and exceptional. Communicative activities and readings are based on cultural context and real-life situations. Students must analyze and synthesize information from a variety of sources. Topics include school supplies, sports and pastimes, places, weather, food, restaurant vocabulary, clothing and accessories, and chores in daily life. A strong basis from the first year is necessary for success at this level as students ask and tell about their interests, extend invitations, form questions and commands, offer and ask for help when shopping, and ask for and give/refuse permission.

FGN301/302 FRENCH 3 – 2 semesters – 1 credit (11, 12)

Prerequisite: French 2 teacher recommendation

The third year of French includes the further development of writing and reading skills. The refinement of communicative skills is stressed. Additional vocabulary includes celebrations, party preparations, fruits, vegetables, food shopping, France's specialty shops, school places and events. The grammatical structures are more intricate. English/French grammar is taught, including object pronouns and their placement: le, la, les, l', lui, leur, y and en with the passé composé of avoir and être verbs and their negation. A strong basis from the first two years of the language is necessary for success.

FGN401/402 FRENCH 4 – 2 semesters – 1 credit (12)

Prerequisite: French 3 teacher recommendation

The development and refinement of the four language skills (listening comprehension, speech, reading, and writing) is stressed. Fluency is expected, and students must manipulate grammatical structures. Students add a substantial amount of vocabulary to their knowledge base: morning routines, daily routines, childhood activities, country life, camping, nature, animals, and parts of the body. The culture of the French-speaking world is also experienced with extended supplemental readings. This level requires a strong working knowledge of vocabulary and language mechanics as we embark upon reflexive verbs in the passé composé and with imperatives, the imparfait, adverb placement, comparatives, superlatives, the future and the subjunctive. Self-motivation on the part of the student is key!

FGN111/112 SPANISH 1 – 2 semesters – 1 credit

Emphasis is on developing comprehension of spoken Spanish and a basic understanding of high-frequency vocabulary, phrases, and structures through listening, reading, writing, and speaking. Topics include family, school, food, restaurants, clothing, health and the body, weather, time and date. Students can expect to express personal preferences and basic personal information. People, cultures and countries of the Hispanic world are introduced.

FGN211/212 SPANISH 2 – 2 semesters – 1 credit

Prerequisite: Spanish 1 teacher recommendation

The focus is on the further development of comprehension and speaking skills, as well as increased exposure to the written language. New grammar concepts are presented, such as multiple past tenses and the imperative. Communicative activities and readings are based on cultural context and real-life situations. Students must analyze and synthesize information from a variety of sources. Topics include towns and cities, food, childhood memories and experiences, daily life, and healthy habits. A strong basis from the first year is necessary for success at this level.

FGN311/312 SPANISH 3 – 2 semesters – 1 credit

Prerequisite: Spanish 2 teacher recommendation

The third-year includes the further development of writing and reading skills. The refinement of communicative skills is stressed. Additional vocabulary includes pastimes and personal experiences like expressing one's hopes and emotions. The grammatical structures are more intricate. English grammar is taught, including object pronouns and their placement; the future and conditional tenses; along with the subjunctive as opposed to the indicative mood. A strong basis from the first two years of the language is necessary for success.

FGN411/412 SPANISH 4 – 2 semesters – 1 credit

Prerequisite: Spanish 3 teacher recommendation

The development and refinement of the four language skills (listening comprehension, speech, reading, and writing) are stressed. Fluency is expected, and students must manipulate grammatical structures. Students add a substantial amount of vocabulary to their knowledge base. The culture of the Spanish-speaking world is also experienced. This level requires a strong working knowledge of vocabulary and language mechanics, as well as self-motivation on the part of the student.

FAMILY AND CONSUMER SCIENCE DEPARTMENT

NOTE: An Action Project is an experience that involves personal, home, school or community services or needs. Credit is given for the Action Project and is part of all courses in this department.

FCS200 PRINCIPLES OF FOODS – 1 semester – .50 credit (9, 10, 11, 12)

In this course, students will gain knowledge in food selection criteria and apply preparation methods to promote a healthy lifestyle. Students will apply cooking methods, ingredient selection, and nutritional information in the context of selected food dishes. Throughout the course, basic food safety and sanitation techniques will be emphasized. **Action Project:** Senior Citizen's Dinner, Creating a meal for your family, trying a new recipe at home and other teacher-approved projects of your choice.

FCS210 INTERIOR DESIGN, FURNISHINGS, AND MANAGEMENT

1 semester - .50 credit (10, 11, 12)

In this course, students will examine design principles used in residential interiors and exteriors. Evaluation of fabrics and finishes for design, appearance, construction and performance. Select furnishing based on space, principles of design to accommodate traffic flow, activity, and existing architectural factors. Additional topics will include the selection and organization of furnishings, floors, and wall coverings in living spaces, kitchens, and baths. **Action Projects:** redecorating your room, improving the school environment through design, sewing projects for the home and other teacher-approved projects of your choice.

FCS300 Global Foods - 1 semester – .50 credit (10, 11, 12)

Prerequisite: **Principles of Foods**

In this course, students will compare cuisines, ingredients and preferred cooking methods of various cultures. The influence of traditions and regional and cultural perspectives on food choices and culinary practices will be emphasized. Students will examine the issues and conditions that affect the availability and quality of food in the global market and apply advanced cooking techniques. **Action Projects:** Create and prepare food of a specific culture, create a cookbook of global recipes, create costumes associated with cultural foods and/or other teacher-approved projects.

FCS310 HUMAN GROWTH AND DEVELOPMENT - 1 semester – .50 credits (11, 12)

In this course, students will analyze human growth and development throughout the lifespan. An emphasis will be placed on physical, cognitive, social and emotional growth and development. Additional topics will include human characteristics and traits, family communication, family types, parenting styles and responsibilities, and cultural differences within a family unit and community.

Actions Projects: Create a family game, plan a family outing, and/or your choice of other teacher-approved projects of your choice.

FCS320 CHILD DEVELOPMENT – 1 semester – .63 credits (11, 12)

In this course, students will study the principles of child growth, development and behavior. An emphasis will be placed on the cognitive development of a child and sensory and motor skills. Additional topics will include childhood diseases, immunizations, theories of development, learning styles and evaluating childcare services. **Action Project:** Halls of Holly, creating a lesson plan for preschoolers and/or any other teacher-approved project of your choice.

FCS325 LIFE SKILLS ASSISTANT – 1 semester – ¼ credit (12)

Prerequisite: *Principles of Nutrition and Wellness and permission of instructor*

The student is given the opportunity to gain more in-depth experience in food preparation and equipment use and care. Sound, responsible work habits are developed.

MATHEMATICS DEPARTMENT

MTH101/102 ALGEBRA 1 – 2 semesters – 1 credit (9)

Prerequisite: **Math 8**

Algebra I incorporates relations and functions, open sentences in one variable, special products and factoring. Mathematical operations involving rational functions, systems of linear equations, powers and roots, and quadratic equations are included in this course. An emphasis is placed on problem-solving.

MTH201/202 GEOMETRY – 2 semesters – 1 credit (10)

Prerequisite: **Algebra 1**

Geometry is designed to develop students' understanding of geometric methods and the relationship between algebra and geometry through the use of precise language, logical thinking, and measurement of figures. Theory and application, informal and formal reasoning, symbolic and visual thinking, as well as coordinate and transformational methods are included in this course.

MTH211/212 GEOMETRY HONORS – 2 semesters – 1 credit (9) - GPA Weighted Course

Prerequisite: **Algebra 8 Honors or Algebra 1 teacher recommendation**

Special equipment required: **Graphing Calculator**

Honors Geometry is designed to develop an understanding of geometric methods and the relationship between algebra and geometry through the use of precise language, logical thinking, and measurement of figures. Theory and application, informal and formal reasoning, symbolic and visual thinking, as well as coordinate and transformational methods are included in this course. An emphasis is placed on problem-solving and formal proof of writing. Algebra skills including equation solving, factoring, writing ratios, solving proportions, working with radicals, and solving word problems are used in finding geometric measures. A variety of proof styles, direct and indirect, are used in proving theorems as well as other problems.

MTH301/302 ALGEBRA 2 – 2 semesters – 1 credit (10, 11, 12)

Prerequisite: **Geometry**

Special Equipment: *Scientific Calculator or Graphing Calculator*

The second year of algebra is designed to review numbers and sets, relations and functions, open sentences in one variable, special products, and factoring. Math operations involving rational expressions, equations containing rational expression, systems of linear equations, powers and roots, logarithms, complex numbers, quadratic equations and inequalities and systems of equations containing quadratics are included in the course.

MTH331/322 Quantitative Reasoning – 2 semesters – 1 credit (11,12)

Prerequisite: Successful Completion of Algebra 1 AND Geometry

In this course, students learn how to use mathematical tools to make decisions in real-world situations. The primary focus is on critical thinking and communication, along with the standards of mathematical practices

MTH341/342 Data Science Foundations – 2 semesters – 1 credit (11,12)

Prerequisite: Successful Completion of Algebra 1 AND Geometry

Data Science Foundations teaches students to reason with and think critically about data in all forms. It is a blend of statistics and probability, computer science and quantitative reasoning, with the goal to discover hidden patterns from raw data. This course covers topics such as describing big data; usability and usefulness of data; structured vs. unstructured data; data extraction techniques; data storage; privacy issues; and data mining.

MTH351/352 Discrete Math/Computer Science – 2 semesters – 1 credit (11,12)

Prerequisite: Successful Completion of Algebra 1 AND Geometry

Discrete Math/Computer Science will explore a variety of discrete math topics through a mix of hands-on classroom activities, traditional mathematical and logical reasoning and interactive computer science activities designed for students with no prior coding experience. Topics include computational thinking, computer logic, game theory, counting/ combinatorics, probability, connectivity, iteration and recursion and cryptography. All topics emphasize logical reasoning, proof and communication with precise mathematical and computer science language.

MTH341/342 ALGEBRA 2 HONORS– 2 semesters – 1 credit (10, 11)

Prerequisite: Geometry Honors or Geometry teacher recommendation

Special Equipment: Graphing Calculator

Algebra II with Elements of Trigonometry incorporates a review of numbers and sets, relations and functions, open sentences in one variable, special products, and factoring. Mathematical operations involving rational functions, systems of linear equations, powers and roots, logarithms, complex numbers, quadratic equations and inequalities, systems of equations containing quadratics, sequences, and binomial expansion are included in this course. In addition, the course focuses on trigonometric functions and their applications.

MTH421/422 PRE-CALCULUS – 2 semesters – 1 credit (11, 12)

Prerequisite: Algebra 2 Honors or Algebra 2

Special Equipment: Graphing Calculator

This course surveys many types of functions and mathematical structures needed for advanced study in calculus and beyond.

MTH431/432 AP CALCULUS AB – 2 semesters – 1 credit (11,12)

GPA Weighted Course

Prerequisite: Successful completion of Algebra 2 Honors and/or Pre Calculus

Special Equipment: Graphing Calculator

Students enrolled in this course will be required to take the Advanced Placement exam in May.

This course uses limits to develop many ideas such as continuity and differentiability. The derivative is used to find a) slope for tangent lines, b) velocity and acceleration based on the position function for an object, c) related rates with respect to time, and d) extrema for a curve. Integrals are used to find distances, areas, average values, and volumes of solids. BC topics include further methods for finding integral values, analyzing an infinite power series, evaluating parametric and polar integrals, and finding Euler's Method approximations. All topics required for the advanced placement calculus test are included.

MTH 441/442 AP STATISTICS – 2 semesters – 1 credit (11, 12)

GPA Weighted Course

Prerequisite: Any 300 level Math Course

Special equipment: Graphing Calculator

Students enrolled in this course will be required to take the Advanced Placement exam in May.

This course focuses on using data to describe a random variable and then using hypothesis testing to decide if the data is significantly different from what is expected. Concepts from descriptive statistics include methods of gathering data, variation, standard deviation, outliers, and kurtosis. Concepts from inferential statistics include Z values, t values, Type I and Type II errors, Chi-square values, correlation coefficient and the line of best fit. All topics on the AP test will be covered.

MTH451/452 AP CALCULUS BC – 2 semesters – 1 credit (11,12)

GPA Weighted Course

Prerequisite: Successful completion of AP Calculus AB or teacher recommendation

Special Equipment: Graphing Calculator

Students enrolled in this course will be required to take the Advanced Placement exam in May.

This course is focused on advanced integral techniques, infinite series, vectors, and derivatives for polar and parametric equations. Towards the end of the course, functions and vectors in three dimensions are explored.

MUSIC DEPARTMENT

All courses in the Music Department meet the Fine Arts Graduation Requirement

Band

MUS101/102 BAND 9 – 2 semesters – 1 credit (9)

Prerequisite: Previous Band experience or permission of director.

Membership in the band is determined by audition and the discretion of the band director. The emphasis is on strengthening the fundamentals of music performance, solo and ensemble contests, and concerts. Private lessons are strongly encouraged. Band is a Full Year Course. The 9th Grade Band combines with the Wind Ensemble, Symphonic Band and Concert Bands during the fall of each school year to form the Riverside Regiment Marching Band.

MUS201/202 CONCERT BAND – 2 semesters – 1 credit (10, 11, 12)

Prerequisite: Previous Band experience or permission of director.

Membership in Concert Band is determined by audition and the discretion of the band director. The emphasis is on strengthening the fundamentals of music performance through solo and ensemble contests, and through concerts. Private lessons are encouraged. The Concert Band combines with the Symphonic Band during the fall of each school year to form the *Riverside Regiment Marching Band*.

MUS301/302 SYMPHONIC ENSEMBLE – 2 semesters – 1 credit (10, 11, 12)

Prerequisite: Previous Band experience/permission of the director.

The advanced band of the high school, membership is determined by audition and the discretion of the band director. Emphasis is placed on music literature suitable to such a group. Performances include concerts, assemblies, solo, ensemble, and large ensemble contests and county festivals. Private lessons are encouraged. Students have the opportunity to direct the band and be leaders in their sections. The Symphonic Band combines with the 9th Grade Band and Concert Band during the fall of each school year to form the *Riverside Regiment Marching Band*.

MUS401/402 WIND ENSEMBLE – 2 semesters – 1 credit (10,11, 12)

Prerequisite: By audition only. Previous Band experience or permission of the director.

The advanced band of the high school, membership is determined by audition, practicing habits and the discretion of the band director. Emphasis is placed on advanced music literature suitable to such a group. Performances include concerts, assemblies, solos, ensembles, and large ensemble performances, and county festivals. Private lessons are encouraged. Band is a full-year course. The Wind Ensemble combines with the Symphonic Band, Concert Band, and 9th Grade Band during the fall of each school year to form the *Riverside Regiment Marching Band*.

MUS110 MUSIC APPRECIATION – 1 semester – ½ credit (9,10, 11, 12)

This course is designed to develop an awareness of the elements and styles of music. It will involve hearing music from the Renaissance, Baroque, Classical, Romantic and Modern eras through instrumentation and vocal compositions. Also included is a segment of jazz and electronic music.

MUS130 POP CULTURE MUSIC - one quarter - 1/4 credit - (9,10,11,12)

The course must be taken along with **ART130 - POP CULTURE ART**

This would be a collaborative class between the Music and Art Department in which students will explore the Pop Art Movement beginning in the late 1950's and its effects on our culture as well as its influence on Modern and Contemporary Art. In the Pop Art portion of the class students will explore the Pop Art Movement through studying the big hitters of the movement such as Andy Warhol and Claes Oldenburg and explore how these artists changed the game for the art world. They will also study the artists that followed in the Pop Art style and explore how the original Pop artists influenced art and American culture today. Students will be required to take notes, have discussions, complete presentations, complete assessments and create their own masterpieces in the style of the artists.

Choir

MUS121/122 BARITONE CHOIR – 2 semesters – 1 credit (9)

Prerequisite: Director Approval, Baritone, and Bass voices only

The course is open to any ninth-grade boy with previous choir experience or permission of the director. Two evening concerts are performed each year. Members may participate in the OMEA Solo and Ensemble event. Private lessons are strongly encouraged. The emphasis is on studying the fundamentals of music and singing through the performance of a variety of music including classical, jazz, folk, world music, and Broadway show tunes.

MUS131/132 TREBLE CHOIR – 2 semesters – 1 credit (9)

Prerequisite: Director Approval, Treble voices only.

The course is open to any ninth-grade girl with previous choir experience or permission of the director. Two evening concerts are performed each year. Members may participate in the OMEA Solo and Ensemble event. Private lessons are strongly encouraged. The emphasis is on studying the fundamentals of music and singing through the performance of a variety of music including classical, jazz, folk, world music, and Broadway show tunes.

MUS211/212 ADVANCED HIGH SCHOOL CHOIR CHOIR –2 semesters – 1 credit (10,11,12)

Prerequisite: Director Approval, Baritone voices only

The course is open to any tenth, eleventh or twelfth-grade student with previous choir experience or permission of the director. At least three evening concerts are performed each year including a festival with other choirs from the area. Members may participate in the OMEA Solo and Ensemble event. Private lessons are strongly encouraged. The emphasis is on reaching an advanced level of proficiency in the fundamentals of music including reading music. Through this process, the students will perform a variety of music including classical, jazz, folk, world music, and Broadway show tunes.

MUS241/242 RIVERSIDE REVUE – 2 semesters – 1 credit (10, 11, 12)

Prerequisite: By audition only

This is a chamber ensemble of 12 to 24 male and female students. Students will participate in at least two concerts each year as well as several performances throughout the community. Members may participate in the OMEA Solo and Ensemble event. Private lessons are strongly encouraged. The emphasis is on reaching an advanced level of proficiency in the fundamentals of music. Through this process, students will perform a variety of music including classical, jazz, folk, world music, and Broadway show tunes.

MUS150 KEYBOARDING/PIANO - One semester - ½ credit - (9,10,11,12)

Prerequisite: No previous piano experience or ability to read music is required.

In this class students will gain experience playing piano and keyboard. Students will focus on developing skills that will allow them to play music that they want to play. “The Modern Band Method - Keyboard - Book 1” will be used as a starting point. This book focuses on playing chords and melodies right away before needing to know how to read music. Students will also engage in creative activities including improvisation and melody writing. This class is designed to be student centered and focused on growth. Beginning piano players as well as those with experience are welcome. Activities will be tailored to each student’s abilities and interests.

MUS160 SONGWRITING & MUSIC PRODUCTION - one semester - ½ credit (9,10,11,12)

Prerequisite: No previous songwriting experience is required.

In this class students will experience various techniques and approaches to songwriting and music production. Included with the class is a subscription to and an introduction to the Digital Audio Workstation, SOUNDTRAP. This project based class will engage students in lyric analysis and lyric writing. Students will explore various popular song forms to inform their own songwriting. This is an interactive class where students will share their projects and provide feedback to their classmates. This class is designed to be student centered and focused on growth. Beginning songwriters as well as those with lots of experience are welcome. Activities will be tailored to each student’s abilities and interests.

MUS170 GUIDED MUSIC STUDY - one semester - ½ credit - (9,10,11,12)

Prerequisite: No previous experience is required

This course is designed to promote proficiency in a variety of movement and dance activities in order to promote a healthy lifestyle. In this class students will develop their understanding of music through movement and dance. Students will engage in daily group movement and community building activities. Music of various genres and cultures will be experienced. Students will study rhythm and melody using the Eurhythmics approach. Eurhythmics uses movement exercises, games and play to develop understanding of time and space as it relates to music. Students will also explore how movement and dance relates to emotion, storytelling and culture. Students will develop their own creativity through improvisation and choreographing activities. Students will experience how movement and dance promote fitness and a healthy lifestyle. This class is designed to be student centered and focused on growth. Students of all experience levels are welcome.

MUS180 VOICE CLASS - one semester - ½ credit - (9,10,11,12)

Prerequisite: No previous singing experience or ability to read music is required.

In this class students will engage in daily group voice lessons as well as frequent individualized instruction. The primary goal of the class is for each student to establish a healthy vocal technique for singing that is applicable to many different singing styles. With the teacher the students will select music that they want to study. Students will develop a daily warmup and practice plan focused on their goals. This class is designed to be student centered and focused on growth. Beginning singers as well as those with experience are welcome. Activities will be tailored to each student's abilities and interests.

SCIENCE DEPARTMENT

SCI101/102 PHYSICAL SCIENCE – 2 semesters – 1 credit (9)

A multi-faceted course spanning all areas of science including chemistry, biology, plate-tectonics, astronomy and other aspects of physical science. Emphasis is on laboratory safety, observing, measuring, modeling and advanced problem-solving. The relationships among science, technology, and society are integral to lab, discussion and project work.

SCI111/112 PHYSICAL SCIENCE HONORS – 2 semesters – 1 credit (9)

GPA Weighted Course

Prerequisite: Honors Science (8th Grade) or recommendation of Science 8 teacher

A rigorous multi-faceted course spanning all areas of physical science including chemistry, plate-tectonics, astronomy and other aspects of physical science. Emphasis is on increased rigor in the area of science including laboratory safety, observing, measuring, modeling and advanced problem-solving. Both critical thinking skills and advanced study skills are fostered. Students should be prepared for rigorous daily reading and written assignments. The relationships among science, technology, and society are integral to lab, discussion and project work.

SCI120 AIR AND SPACE - 1 Semester – 1/2 credit (9, 10, 11, 12)

Air and Space is an elective college prep course designed to introduce students to the study of Astronomy. Students will learn about the amazing vast universe. A focus on astronomy basics and how to find them in the sky. Students will journey from the Earth outward to the solar system, looking at each planet, the sun, and the stars. This course incorporates a study of past and present missions, making comparisons of past theories and new discoveries. Continuing outward students will learn about the Milky Way and other galaxies beyond. Emphasis is placed on project-based learning which develops critical thinking and promotes scientific learning. Discovery Learning, Independent research, Inquiry and a variety of instructional strategies will be used to ensure an enjoyable, vigorous, and well-rounded learning experience.

SCI130 ZOOLOGY - 1 Semester – 1/2 credit (9, 10, 11, 12)

Zoology is a course surveying the nine major phyla of the Kingdom Animalia, dealing with the study of animal life. Major topics include animal anatomy, interrelationships, physiology, genetics, distributions, and habitats. This scientific course is designed to teach students the basic principles of the diversity of life through the application of identification, classification, and laboratory investigation. Dissections are required and are a major component of the course.

SCI201/202 BIOLOGY 1 – 2 semesters – 1 credit (10)

This class will blend the college board PreAP Biology curriculum with our local curriculum and standards. The following areas will be covered during the year: fundamental principles in ecological studies with special emphasis on aquatic environments, terrestrial environments, population dynamics, and mans interrelationship with his environment; comparative structure and function of the lower animals (invertebrates and vertebrates) with that of man emphasizing unity and diversity of all living things; and the concepts of genetics and evolution to explain unity and diversity. Laboratory investigations are provided overall in the above areas for in-depth analysis and interpretation of data.

SCI211/212 BIOLOGY 1 HONORS – 2 semesters – 1 credit (9, 10) **GPA Weighted Course**

Prerequisite: Honors Science and teacher recommendation or special permission

An intense rigorous laboratory-based study of biological fundamentals including: biochemistry, comparative structure, and function of lower animals, emphasizing unity and diversity of all living organisms, and the concepts of genetics and evolution to explain the unity and diversity. Laboratory investigations are provided overall in the above areas for in-depth analysis and interpretations. Field studies augment the learning process. Both critical thinking skills and advanced study skills are fostered. Students should be prepared for rigorous daily reading and written assignments. This is a course for students intending to pursue four years of science in high school. This is a course meant to be taken by students in preparation for Advanced Placement Biology (college level).

SCI301/302 THE PHYSICAL UNIVERSE – 2 semesters – 1 credit (11, 12)

This course is an in-depth interdisciplinary study of the earth, energy, weather, and space with an emphasis on practical applications of everyday, real-life examples to explain and define our universe. The study may include, but not be limited to geologic forces, resources and energy, the earth in space, our atmosphere, and the solar system.

SCI311/312 CHEMISTRY FUNDAMENTALS – 2 semesters – 1 credit (11, 12)

The course teaches the relationship between society and energy, and the role of chemistry in the environment. It is primarily designed for the college-bound student who does not intend to pursue a career in science. Fundamental work in mathematics is required; as is learning through laboratory activities. Students should be prepared to spend time outside of the classroom reviewing, reading assignments and completing written work.

SCI321/322 CHEMISTRY 1 – 2 semesters – 1 credit (10, 11, 12)

Special Equipment: Calculator

The course is an introduction to the fundamentals of chemistry, such as atomic structure, bonding, chemical reactions and problem-solving and how they affect the world around us. The student should have good math skills and should be prepared to use them in classwork, homework and in doing lab reports. The student should be proficient at solving word problems using basic math skills. Homework will involve mathematical problems and brief explanations of basic terms and concepts. The student should be prepared to spend time outside of the classroom reviewing class notes, reading test assignments, and completing written assignments.

SCI331/332 CHEMISTRY 1 HONORS – 2 semesters – 1 credit (10, 11, 12)

GPA Weighted Course

Prerequisite: Pre AP Biology or Biology teacher recommendation

This course is an in-depth study of the fundamentals of chemistry, such as atomic structure, bonding, and chemical reactions. Problem-solving skills, mathematical and otherwise, are stressed, so the student should have strong math skills, and be comfortable working with word problems. Work outside of the classroom includes assigned homework and lab reports, but the course also requires the student to independently review class notes, read the text, and take initiative to ensure understanding of topics and theories. The course is intended as preparation for the Chemistry 2 AP course and therefore will cover topics more advanced than Chemistry 1.

SCI401/402 PHYSICS – 2 semesters – 1 credit (11, 12)

Prerequisite: Algebra 2, Algebra 2 Honors or Pre-Calculus or concurrent enrollment in Pre-Calculus, Advanced Math Concepts, or Calculus.

Special Equipment: Graphing Calculator (TI-83 or 84 preferred) or a Scientific calculator.

A laboratory/lecture approach is used to teach a theoretical and mathematical introduction to the physical laws and theories which attempt to explain natural physical phenomena. The student should have good math skills or be willing to work to develop them and should be prepared to use these skills in classwork, homework, and laboratory reports. The student should be proficient at solving word problems or be willing to work to become proficient at solving them by using algebraic formulas that will be derived from simple graphs developed from laboratory investigations. Homework involves mathematical problems, explanations of basic terms and concepts, and the analysis of data gathered in the lab. The student should be prepared to weekly spend as much time outside of class as in class on homework, readings, written assignments, note-taking, and material review.

SCI410 FORENSICS – 1 Semester – ½ credit (11, 12)

Prerequisite: ***Biology and Chemistry***

This course is the study and use of basic scientific concepts related to solving crime. Through the study of forensic science techniques, students are given the opportunity to explore and further understanding how basic scientific concepts apply specifically to this field of study. Discussion of realistic scenarios, laboratory experiments, internet research, and case studies are a large component of this course.

SCI415 ANATOMY and PHYSIOLOGY – 1 semester – ½ credit (11, 12)

Prerequisite: ***Biology and Chemistry***

Anatomy and physiology is the study of the structure and function of the human body. Students will explore the various organ systems of the human body through experimentation, including several dissections. Students will apply the principles learned in anatomy and physiology to human health and wellness. Students will be introduced to various career options through guest speakers and research. This course is designed for someone considering a career in a medical profession, as well as for students with an interest in how the human body works.

SCI421/422 BIOLOGY AP – 2 semesters – 1 credit (11, 12) GPA Weighted Course

Prerequisite: ***Biology I Honors or Pre AP Biology and Chemistry Honors or Chemistry teacher recommendation***

Students enrolled in this course will be required to take the Advanced Placement exam in May.

Students use a college textbook and articles from science magazines when appropriate in this course. Areas of concentration are biochemistry, DNA, genetics, physiology, and anatomy of animals and plants. Evaluation is based primarily on tests and daily recitation, reports, and projects. Upon completion of the course, students are encouraged to take the Advanced Placement Exam in Biology for which college credit may be earned.

SCI431/432 CHEMISTRY AP – 2 semesters – 1 credit (11, 12) - GPA Weighted Course

Prerequisite: ***Chemistry 1 Honors or and Chemistry teacher recommendation***

Special Equipment: ***Calculator***

Students enrolled in this course will be required to take the Advanced Placement exam in May.

Many of the same topics are covered in this course as are covered in Chemistry 1 but in greater depth and at a more rapid pace. New topics are also covered. Homework consists of answering questions about basic terms and concepts and solving problems, with emphasis on problem-solving techniques. Lab work is quantitative in nature, emphasizing the concepts being studied. This course is designed to allow students to preempt their first course in college chemistry by preparing them to take the AP Exam and students are strongly encouraged to take this exam.

SCI441/442 PHYSICS AP – 2 semesters – 1 credit (11, 12) **GPA Weighted Course**

Prerequisite – **Chemistry**

Students enrolled in this course will be required to take the Advanced Placement exam in May.

This is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.

SCI451/452 ENVIRONMENTAL SCIENCE AP - 2 semesters - 1 credit (9, 10, 11, 12)

GPA Weighted Course

Students enrolled in this course will be required to take the Advanced Placement exam in May.

This college level course is for students who are interested in advanced science. Students will explore and investigate the interrelationships of the natural world and analyze environmental problems, both natural and human-made. Laboratory investigations and field work are embedded in the work of this course.

SOCIAL STUDIES DEPARTMENT

SOC101/102 WORLD HISTORY – 2 semesters – 1 credit (9)

This class will blend the curriculum with our local curriculum and standards. World History is the study of people's written record of what they have done on earth. Much emphasis is placed on the development of government in the Classical Period from absolutism to democracy. The government is then traced through the anarchy of the Feudal period, the absolutism of the age of Mighty Kings, and finally to the rebirth of democracy in the 17th century. Through the study of world history, humankind hopes to benefit from the experience of past civilizations.

SOC111/112 WORLD HISTORY HONORS – 2 semesters – 1 credit (9)

GPA Weighted Course

Prerequisite: Teacher/counselor recommendation

This course is designed for the advanced college-bound Social Studies student. The course deals mainly with the history of the western world from the origin of man to the last decades of the 20th century. The rise and development of social, economic and political systems will be traced from the ancient world to the Medieval times, ending in the modern world.

SOC201/202 UNITED STATES HISTORY – 2 semesters – 1 credit (10)

U.S. STUDIES FROM 1492 TO 1877: EXPLORATION THROUGH RECONSTRUCTION The historical focus continues in the eighth grade with the study of European exploration and the early years of the United States. This study incorporates all four social studies strands into a chronologic view of the development of the United States. Students examine how historic events are shaped by geographic, social, cultural, economic and political factors.

SOC211/212 UNITED STATES HISTORY AP - 2 semesters – 1 credit (10)

GPA Weighted Course

Prerequisite: World History Honors or World History CP teacher recommendation

Students enrolled in this course will be required to take the Advanced Placement exam in May. This course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance—and to weigh the evidence and interpretations presented in historical scholarship. AP U.S. History will thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. Students are strongly encouraged to take the Advanced Placement exam in Psychology for which they may receive college credit.

SOC300 AMERICAN GOVERNMENT – 1 semester – ½ credit (11)

This course is a survey of the structure and organization of the American national government. The course traces the colonial background and constitutional basis of executive, legislative, and judicial functions; interstate relations, elections, and civil rights.

SOC311/312 AMERICAN GOVERNMENT and POLITICS AP – 2 semesters – 1 credit (12)
GPA Weighted Course

Prerequisite: US History AP or US History teacher recommendation

Students enrolled in this course will be required to take the Advanced Placement exam in May.

This course is an in-depth study of the American National government. Special attention is paid to the legal framework in American and federal court decisions. Students are required to write legal briefs and to read major newspapers and periodicals for class discussions. Students taking the course are strongly encouraged to take the Advanced Placement exam in American Government for which they may receive college credit.

SOC320 PSYCHOLOGY – 1 semester – ½ credit (11, 12)

Introduction to Psychology is a social studies elective that is designed to expose students to the basic theories behind human behavior. The course covers topics pertaining to origins of psychology, psychological research, biological bases of human behavior, and states of consciousness. The course focuses on introducing students to the type of work psychologists engage in and the various career opportunities that are available with a psychology background.

SOC330 PSYCHOLOGY 2 – 1 semester – ½ credit – (11, 12)

Prerequisite: Psychology

Psychology 2 is a social studies elective that is the extension of the Introduction to Psychology Course. It will expand on the knowledge learned in the introductory course and focus on several new units of psychological exploration. The course will cover topics related to motivation, emotion, memory, social psychology, abnormal psychology, and treatments. These new units of study build on the foundations of psychology presented in the introductory course.

SOC340 CURRENT ISSUES – 1 semester – ½ credit (11, 12)

The course emphasizes the historical causes of current world and domestic problems. Topics include social, political, economic, racial, and ecological disputes. Newspapers and periodicals make up the required reading. Subscriptions are purchased at student expense.

SOC350 WORLD GEOGRAPHY - 1 Semester - ½ credit (11, 12)

Students use knowledge of geographic locations, patterns and processes to show the interrelationship between the physical environment and human activity and to explain the interactions that occur in an increasingly interdependent world. Students use knowledge of perspectives, practices and products of cultural, ethnic and social groups to analyze the impact of their commonality and diversity within local, national, regional and global settings.

SOC400 FINANCIAL LITERACY/ECONOMICS – 1 semester – ½ credit (11, 12)

This course is designed to deal with real-life economic issues in the classroom. Various issues taught and discussed include choosing a career, resume and cover letter writing skills, professional interview skills, paychecks and taxes, savings and investing and credit. This course consists of hands-on activities to introduce concepts of consumer economics.

SOC411/412 AP PSYCHOLOGY – 2 semesters – 1 credit (12) **GPA Weighted Course**

Prerequisite: **AMERICAN GOVERNMENT and POLITICS AP or teacher recommendation**

Students enrolled in this course will be required to take the Advanced Placement exam in May.

This course has nine units of study that range from Methodology to Clinical Psychology. Students are introduced to the 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 subfields within psychology. They also learn about the methods psychologists use in their science and practice. The course emphasizes the use of case studies as well follows the CollegeBoard content standards and utilizes their resources in the creation of assessments. Students are strongly encouraged to take the Advanced Placement exam in Psychology for which they may receive college credit.

Career Electives

BUS241/242 PRINCIPLES OF BUSINESS/SCHOOL STORE - 2 Semesters - 1 Credit (10, 11, 12)

In this engaging, hands-on course, students will learn about the key principles of business and put those skills into real-world practice by managing and operating an active school storefront. The key principles covered in this course will include: production, management, operations, accounting, and marketing. Students will showcase the business skills they've learned by working in the school store during class time and outside of regular school hours.

Public Service - ENG461/462 - full year - 1 credit - (12)

Public Service introduces students to careers dedicated to serving others with pathways focusing on social services and public safety. Students will be involved in an in-depth study of the communication and workforce skills needed within the areas of Police, Fire/EMS, Telecommunications, Job & Family Services and/ or Non-Profit work. Required hands-on experience within a selected pathway will provide students with resume building activities and a chance to evaluate the profession as a potential future career. Students who take this class will earn ONE 12 point industry recognized credential.

Introduction to Manufacturing - IND401/402 - full year - 11 credit - (12)

In this course, students will learn about the key principles of manufacturing through various hands-on activities. Students will earn multiple certifications that can be used throughout the manufacturing field. The key principles covered in this course will include: history, safety, production, design, and operations. Students will earn credentials and be exposed to career opportunities in the field of manufacturing.

Principles of Construction - MTH461/462 - full year - 1 credit - (12)

Principles of Construction is a course designed to allow students to gain an understanding of construction as a career pathway, as well as an introduction to the skills necessary to be successful in the trades. The class includes textbook study, hands-on projects, speakers, and field trips to help facilitate learning. This course is a Pre-Apprenticeship course and is aligned with the Apprenticeship Program at Cleveland Construction. In addition to elective credit, students will also earn a math credit when taking this course.

Introduction to Healthcare Careers - SCI461/462 - 2 semesters - 1 credit - (12)

This course will examine the role of structure and function of the human body through the study of anatomy and physiology. Students will study anatomy and physiology over the course of the year, while incorporating job shadowing experiences at a hospital or nursing home to introduce students to different career paths in health care. Career shadowing experiences will include administrative, patient care, and lab technician paths.

Welding - WLD401/402 - full year - 3 credits - (11,12)

This course meets for two blocks, **every day**. The morning session meets 1st and 2nd block and the afternoon session meets 3rd and 4th block. Students will have the opportunity to gain AWS Welding Procedure Certification in several welding processes. Students will be expected to take an online safety course. Students will be required to purchase welding safety equipment and dress for an industrial setting in the lab daily.

8th Grade Courses

Most academic credits earned in 8th grade, will not be counted toward meeting the graduation requirements for Riverside High School. Credits for high school graduation are generally earned, beginning with the 9th-grade year. All credit amounts listed next to the following 8th grade courses descriptions are used for grade point average calculation only.

The following courses can be taken in 8th Grade and students will earn high school credit.

Algebra I Honors

Riverside Ready

Exploring Technology 8 (will meet the RHS Technology requirement for graduation)

French 1 - see description on p. 17

Spanish 1 - see description on p. 18

ART800 - ART 8 – 1 semester – 1/2 credit (8)

Art 8 is the introductory nine-week studio art class. This course is designed to begin to expose eighth graders to what they will experience in Art 1. Work is done on a project basis and is graded on the student's individual development rather than in comparison with the works of others in the class. Written tests and exams will be based on vocabulary and art concepts, materials and techniques.

CAR100 - Riverside Ready - 1 semester - 1/2 credit (high school credit)

This course is designed to prepare 8th grade students for high school life. This mandatory elective course will blend career exploration and high school readiness skills to prepare students for the rigors of high school, as well as get them thinking about future plans after high school.

ENG801/802 – ENGLISH 8 – 2 semesters – 1 credit (8)

This course contains activities for all component parts: composition, grammar, and literature. Students will study methods of sentence combining and will use these techniques in writing. Different pieces of writing, such as persuasive, narrative, expository, etc., will be completed based upon their literature readings. Students will read several novels over the course of the year, along with many short stories and plays. Long-ranged and research projects will complement their reading assignments. Students are expected to have mastered spelling, punctuation and sentence formation. Throughout the year, students are expected to use verbs and complex sentences in their writing. Students should read at or above grade level, demonstrate self-motivation, work ethic, and have mature behavior and attitude. Summer reading will be required.

ENG811/812 – ENGLISH 8 HONORS – 2 semesters – 1 credit (8) – GPA Weighted Course

Prerequisite: Honors Language Art 7 or Language Arts 7 teacher recommendation

This course contains enrichment activities for all component parts: composition, grammar, and literature. Students will study intricate methods of sentence combining and will use these techniques in writing. Different pieces of writing, such as persuasive, narrative, expository, etc., will be completed based upon their literature readings. Students will read several novels over the course of the year, along with many short stories and plays. Long-ranged projects will complement their reading assignments. Students are expected to have mastered spelling, punctuation and sentence formation. Throughout the year, students are expected to use verbs and complex sentences in their writing. Students should read well above grade level, demonstrate an excellent self-motivation work ethic, and have mature behavior and attitude. Summer reading will be required.

ENG820 STORYTELLING IN THE DIGITAL AGE – 1 semester – ½ CREDIT (8)

In this course, students focus on those elements that make for vivid, effective writing across genres. This class will help students generate ideas for writing, communicating, creating, and expressing. Writing is a way to externalize thoughts and feelings. The ability to write well creates a well-rounded individual who can organize and express his or her views. Students will use technology to synthesize their creative and informational writing through individual and group learning activities. Students will participate in both crafting and presenting different fiction and nonfiction selections. They will use a variety of tools and resources to explore storytelling and information sharing in the 21st century.

ENG830 SPEECH AND COMMUNICATION - 1 semester - ½ CREDIT (8)

In this course, students will work to improve written and oral communication skills through various 21st Century formats. This class will introduce and reinforce public speaking skills through presentations of various lengths. Emphasis is on communication including the purpose of speech and methods of public speaking. Students will gain experience preparing and/or delivering memorized, manuscript, impromptu, and extemporaneous speeches. Using these delivery styles, they will practice with introductory, thankful, demonstration, informative, entertaining, convincing, and sales pitch speeches. Topics include speech preparation, formulas for organizing a speech, the importance of outlining, strategies for building strong introductions, and the creation of effective conclusions. Other topics include listening and learning from one another, platform appearance and behavior, and overcoming stage fright. Students can expect to express personal likes, preferences, and basic personal information with the ultimate goal of finding one's voice, gaining confidence when speaking in public, and pursuing/exploring one's interests and passions. Students will also learn to collaborate with peers on creating written communications via social media, blogging, and podcasts. The overarching goal of this course is to explore different fields of communication while solidifying soft communication skills that will transfer into the workforce in the future.

IND800 – EXPLORING TECHNOLOGY 8 – 1 semester – ½ credit (8) - (high school credit)

In this course, students will gain a working knowledge of various Google Applications including Google Classroom, Docs, Slides, Drawings, Forms, etc... and how to integrate them into everyday life. Students will also become proficient in using their Chromebooks to complete tasks. The course will provide a beginning experience of STEM fields, with a focus on technology and beginner-level engineering with the integration of Science and Mathematics. This project-based course will help students make connections to real-life applications and provide students opportunities to work collaboratively.

MT801//822 – MATH 8 – 2 semesters – 1 credit (8)

This course develops the student's Number Sense by mastering all of the subsets of the Real Number System. Square Roots, Cube Roots, Scientific Notation, Exponents (positive and negative), and solving equations and real-world problems are incorporated in Number Sense. From here, students will master their skill in solving equations. Starting with basic one-step equations to multiple-step (including distributive property and collecting like terms) will also be mastered. Linear Algebra will then be introduced and mastered. Students will learn to graph equations, write equations, represent slope (various ways) and solve systems of equations (graphically and algebraically). Functions will then be studied. Students will need to show their mastery of linear and non-linear functions. Also, the ability to identify if a graph, table, or points are functions will be mastered. Geometry will be studied. Students will master skills of angle pairs and Pythagorean theorems. The volume of spheres, cylinders, and cones are included along with transformations (translations, reflections, rotations, and dilations) will finish Geometry. Statistics will be introduced. Students will learn about measures of central tendency, standard deviation, box plots, line plots, and many other displays of data. All of this material will be tested on their 8th-grade AIR test taken at the end of the year.

MTH111/112 ALGEBRA 8 HONORS – 2 semesters – 1 credit (81)

High School Credit - Weighted GPA Course

Prerequisite: This course is for those students who have successfully completed the Seventh Grade Honors Pre-Algebra class and have met the criteria for placement.

ALGEBRA 8 HONORS incorporates explaining the process of solving equations and inequalities, and using them to solve problems. Apply solving techniques and the law of exponents to the creation and solution of simple exponential equations. Use function notation, develop the concepts of domain and range, explore many examples of functions (including sequences) and interpreting functions graphically, numerically, symbolically, and verbally, and comparing and contrasting between functions. Use regression techniques to describe approximately linear relationships between quantities as well as using graphical representation and knowledge of the context to make judgments about the appropriateness of linear models. Extend the laws of exponents to rational exponents and create quadratic and exponential expressions. Create and solve equations, inequalities, and systems of equations involving quadratic expressions. Compare key characteristics of quadratic functions to those of linear and exponential. Identify real solutions of a quadratic equation as the zeros of the related quadratic function.

MUS801/802 BAND 8 – 2 semesters – 1 credit (8)

Prerequisite: **Previous Band experience or permission of director.**

Membership in the band is determined by audition and the discretion of the band director. The emphasis is on strengthening the fundamentals of music performance, solo and ensemble contests, and concerts. Private lessons are strongly encouraged. Band is a Full Year Course.

MUS821/822 BARITONE CHOIR 8 – 2 semesters — 1 credit (8)

Prerequisite: **Director Approval, Baritone and Bass voices only**

This course is open to any eighth-grade boy. Two evening concerts are performed each year. Members may participate in the OMEA Solo and Ensemble event. Private lessons are strongly encouraged. The emphasis is on studying the fundamentals of music and singing through performance of a variety of music including classical, jazz, folk, world music, and Broadway show tunes.

MUS831/832 TREBLE CHOIR 8– 2 semesters – 1 credit (8)

Prerequisite: **Director Approval, Treble voices only.**

This course is open to any eighth-grade girl. Two evening concerts are performed each year. Members may participate in the OMEA Solo and Ensemble event. Private lessons are strongly encouraged. The emphasis is on studying the fundamentals of music and singing through performance of a variety of music including classical, jazz, folk, world music, and Broadway show tunes.

PEHLT8 PHYSICAL HEALTH AND WELLNESS – 1 semester – ½ credit (8)

This course is designed to combine the content areas of both Health and Physical Education. The focus of this course will be on a fitness and health-based curriculum that presents concepts through physical activity-based lessons, projects, and use of community resources; speakers to supplement health-related topics. A top priority will be promoting the importance of fitness and nutrition as it is related to personal health.

Physical Health and Wellness prepares students for a healthy lifestyle by giving them a solid foundation of how to maintain and/or improve their fitness levels. Students will develop fitness and nutrition goals, complete an exercise log, a food intake log, and create a personal work out and nutrition plan.

Additional topics such as body systems, mental health, relationships, alcohol, drug, tobacco awareness, communicable and non-communicable diseases, and other current health issues will be discussed. Students will also participate in a variety of indoor and outdoor activities promoting physical fitness. Students will participate in individual group games/sports such as soccer, volleyball, football, handball, basketball, floor hockey, and softball.

SCI801/802 SCIENCE 8 – 2 semesters – 1 credit (8)

Students in this course will use scientific inquiry to discover patterns, trends, structures and relationships that may be described by simple principles. These principles are related to the properties or interactions within and between systems. In addition, students will study the physical features of Earth and how they formed. This includes the interior of Earth, the rock record, plate tectonics and landforms. Students will also study forces and motion within, on and around the Earth and within the universe. Finally, students will study the continuation of the species.

SCI811/812 SCIENCE 8 HONORS – 2 semesters – 1 credit (8)

This course will allow students to achieve a deeper understanding of the science content. Honors students will be expected to read and comprehend concepts discussed in scientific articles, apply a variety of mathematical skills to solve scientific problems, write detailed explanations of natural phenomena, evaluate and synthesize scientific rationales, and work collaboratively with peers as productive members of a local scientific community.

SCI820 – STEM INQUIRY – 1 Semester – ½ credit (8)

The overarching theme of our STEM program is to better understand how to meet the electrical power needs of our country. We first study Chemical Engineering as it relates to Atomic Theory. Our studies include a number of hands-on activities designed to help students develop the model of the atom and in particular bring them to an understanding that the electrons in atoms are what makes up electricity. Activities include the development of the Scientific Method, Atomic Structure including Isotopes, Building the Periodic Table and the study of Line Emission Spectra from Various Excited Gases.

Next we study Electrical Engineering as it relates to Electric Circuits and Electric Production. Students built Series, Parallel and Combination circuits as related to Ohm's Law and how electricity is delivered. To better understand how electricity is produced students work with Electric Generators, Wind Turbines and Photoelectric Cells. We also look at traditional forms of production such as Hydroelectric, Coal-Fired and Nuclear Power.

SOC801/802 – U.S. HISTORY 8 – 2 semesters – 1 credit (8)

This course will take students from the early beginnings of our great country through the Civil War and Reconstruction. We will begin the year with Exploration and the first permanent English settlements of Jamestown and Plymouth. Next, we will analyze the colonies' similarities and differences in relation to religion, economics, politics, and geography. From there we will encounter the events that led to the signing of the Declaration of Independence and The Revolutionary War. We will cover the Revolutionary War itself and then delve into the Constitution as the framework of our government as well as The Bill of Rights. Lewis and Clark will help us explore new territory and gold will take us all the way out to California. Lastly, our class will engage in and study the events and concepts that led to the Civil War, the War itself, and the country's Reconstruction after the Civil War.

SOC811/812 – U.S. HISTORY 8 HONORS– 2 Semesters – 1 credit (8) GPA Weighted Course

This course is intended for the advanced college-bound student and will cover the same material as traditional U.S. History, from Colonization through Reconstruction. During the course, students will examine extra independent readings, primary sources, conduct research and create projects. This course will emphasize the social, political, and economic aspects of the time periods covered and develop critical thinking and analytical skills. Students will be expected to create a project for, and participate in, the end of the year History Faire. Students should be able to work well independently and have strong reading, writing and comprehension skills.

SPECIAL RECOMMENDATION PROGRAMS

The courses are designed for students who have an Individual Education Plan (IEP). Based on a student's IEP Evaluation, a student could be placed in these courses.

SEN101/102, WEN1234/A/1234/B ENGLISH 1 – 2 semesters – 1 credit (9)

SEN201/202, WEN1234/A/1234/B ENGLISH 2 – 2 semesters – 1 credit (10)

SEN301/302, WEN1234/A/1234/B ENGLISH 3 – 2 semesters – 1 credit (11)

SEN401/402, WEN1234/A/1234/B ENGLISH 4 – 2 semesters – 1 credit (12)

SRD101/102, SRD201/202, SRD301/302 READING – 2 semesters – 1 credit (9, 10, 11)

Basic skills in reading are taught to improve reading comprehension and vocabulary skills through individualized instruction.

SSP101/102 SUPPLEMENTAL — 1/4 credit (pass,fail) per semester (9 - 12)

This course is designed to provide specialized instruction in individual areas of need as identified in a student's Individual Educational Plan (IEP). Students may also receive support in core curricular areas and direct instruction in specific learning strategies, study skills, time management, and organization. While students may receive assistance on core curricular assignments, the course is not designed to serve as a study hall. Students enrolled in the course receive the equivalent of one period of instruction each day and earn an elective credit (in grades 9-12). Students will also cover transitional material. The topics covered would include: college/career exploration, resume/cover letter writing, financial literacy, self-advocacy, resources available. This course would provide them with options and help them explore their resources.

WHE100 HEALTH – 1 semester – ½ credit (10, 11)

Life-long health through an appreciation of exercise and knowledge of nutrition, cleanliness, disease, sex, and mental hygiene is the goal of this course. Students are assisted in developing leisure-time activities that can be enjoyed throughout their lives.

WPE100, 200 ADAPTIVE PE – 1 semester – ¼ credit (9, 10, 11, 12)

Meet individual physical and social needs according to goals on IEP

WLS1234A/1234B LIFE SKILLS - 2 semesters – 1credit (9, 10, 11, 12)

Address and encourage independent personal hygiene skills, health issues, cooking/kitchen skills, social skills, laundry skills, and safety.

WIL1234A/1234B INDEPENDENT LIVING - 2 semesters – 1 credit (9, 10, 11, 12)

Skills of grocery shopping (finding products, nutritional values, best prices, etc.), all aspects of meal planning and personal finances/budgeting.

SMA101/102, WMA1234A/1234B MATH 1 – 2 semesters – 1 credit (9)

SMA201/202, WMA1234A/1234B MATH 2 – 2 semesters – 1 credit (10)

SMA301/302, WMA1234A/1234B MATH 3 – 2 semesters – 1 credit (11)

SMA401/402, WMA1234A/1234B MATH 4 – 2 semesters – 1 credit (12)

Emphasis is on remediation of mathematical deficiencies and building upon mathematical strengths as determined through formal and informal assessments. Math operations are taught concurrently with everyday applications.

SSC101/102, WSC1234A/1234B SCIENCE 1 – 2 semesters – 1 credit (9)

SSC201/202, WSC1234A/1234B SCIENCE 2 – 2 semesters – 1 credit (10)

SSC301/302, WSC1234A/1234B SCIENCE 3 – 2 semesters – 1 credit (11)

SSC401/402, WSC1234A/1234B SCIENCE 4 – 2 semesters – 1 credit (12)

Basic concepts in Earth, Physical, Life, and Environmental science are taught through projects, videos, and practical experiments. The goal is to make students more aware of how and why things are and work around them and how they originated.

SSO101/102 World History – 2 semesters – 1 credit (9)

SSO201/202 US History – 2 semesters – 1 credit (10)

The development of the United States is traced from pre-colonial days to the present.

Emphasis is placed on the relationship of historical events to current government structure and practices. Basic map interpretation skills are covered. Classes are taught with the individual student's strengths and learning difficulties in mind.

SSO301/302 – Social Studies 3 – 2 semesters – 1 credit (11)

Students will study the basic principles of the United States economic system and how it relates to them on a personal level. Principles of banking, the world of work, taxes, as well as other financial issues are emphasized.

SSO401/402 – AMERICAN GOVERNMENT – 2 semesters – 1 credit (12)

WSO1234A/1234B SOCIAL STUDIES 1 – 2 semesters – 1 credit (9, 10)

WSO1234A/1234B SOCIAL STUDIES 2 – 2 semesters – 1 credit (10, 11)

WSO1234A/1234B SOCIAL STUDIES 3 – 2 semesters – 1 credit (11, 12)

WSO1234A/1234B SOCIAL STUDIES 4 – 2 semesters – 1 credit (12)

WEN001 MULTIPLE DISABILITIES LAB ASSISTANT— 1/4 credit per semester (10, 11, 12)

The lab assistant students will assist the instructor with tasks related to helping students with multiple disabilities in their everyday activities such as transport, life skills, vocational/recreational skills, community involvement and peer social skills intervention. The student assistant will develop a project with the student to increase their social awareness of students with disabilities and at the same time offer the student with multiple disabilities a meaningful educational experience.

SPECIAL RECOMMENDATION CAREER PROGRAMS

SVT300 TRANSITIONAL EMPLOYMENT (World of Work) —3 credits/year (11, 12)

This program works to place and support students with disabilities in competitive employment. Students are provided with the individualized services necessary to enable them to successfully perform their job. Transportation to and from the job station is the responsibility of the student.

SVT100 HOSPITALITY & COMMUNITY SERVICE —3 credits (10, 11, 12)

This program is an introduction to work experience for students with disabilities. The program allows the student to participate in career exploration and gain skills through job shadowing, career planning, field trips and by working various jobs throughout a resort/hotel setting.

SVT200 INDUSTRIAL TRANSITION TRAINING — 3 credits

A variety of trade and industrial learning experiences will take place. The program is designed to meet the needs of students who experience limited success in the regular vocational program setting.

SIW101/102 IN-SCHOOL WORK EXPERIENCE 1 — 2 semesters - 1-2 credits

SIW151/152 IN-SCHOOL WORK EXPERIENCE 2 — 2 semesters - 1-2 credits

Students in this program are afforded an opportunity for part-time employment in the school setting. The major concepts stressed include the job interview process; effective communication with employers and co-workers; appropriate problem-solving techniques; positive work habits, attitudes, and job responsibility; as well as effective money management skills.

SWS101/102 WORK STUDY 1 — 2 semesters - 2 credits

SWS151/152 WORK STUDY 2 — 2 semesters - 2 credits

The purpose of this course is to enhance and refine the major concepts of the working experience. Continuous supervision and counseling are offered to each student. The ultimate goal is to prepare youth for realistic, yet competitive, employment and successful integration into the community as an independent adult.

Students must work a minimum of 15 hours during the week. One week is allowed to find another job, should a job change be necessary. The work-study coordinator assists the student in securing a job, and along with the employer provides a written evaluation of job performance. Transportation to and from the job station is the student's responsibility.

Auburn Career Center

Visit Auburn Career Center online at <http://www.auburncc.org>

Auburn Career Center (ACC) offers a variety of career/technical programs to students in the 10th, 11th, and 12th grades. Each program is two years in length. Therefore, students can attend ACC beginning in 10th grade or beginning in 11th grade. Transportation to and from ACC is provided by the Riverside Local Schools. Students spend ½ day at ACC in a hands-on and well-equipped lab. Students will attend The Riverside Campus to complete the academic courses needed for graduation. College credit may be earned in some ACC classes. Valuable certifications can be earned in all classes.

Students apply online through Auburn Career Center's website. To ensure acceptance in your first choice program, apply as early as possible. Course assignments are made on a first-come-first-serve basis.

Acceptance at ACC is based on:

- Student's interest area
- Credits and grades earned at Riverside High School
- Parent Approval
- Guidance Counselor Recommendation
- ACC approval

RHS students should have successfully completed the following courses by the end of their sophomore year:

- College Prep, or Advanced English
- American History and World History
- College Prep Algebra I & Geometry
- Physical Science 9 & Biology
- Health, Physical Education 9 & 10
- Technology
- Fine Art

Programs Available at Auburn Career Center

Advanced Manufacturing: 3 elective credits each year

Students will design and create 21st-century products in our NEW state-of-the-art facility. This program allows students to design and produce components from concept to completion using Computer Numerical Control (CNC) production. Ultimately, students will find a secure future in a high demand/high wage industry (areas include manufacturing, engineering, and computer-aided design (CAD)).

Allied Health Technology: 3 elective credits each year

This curriculum is designed to prepare students for post-secondary education in the health care field. This program provides students with an exploration of healthcare careers, while providing them with college prep courses. College credit is available with this class.

Architecture Project Management: 3 elective credits each year

Students will use SoftPlan computer software to design residential and commercial properties. Students will generate floor plans, foundation plans, elevations, section views and site plans. Students will also learn to manage all phases of a construction project including quality control, job site management and project organization. College credit and certifications available.

Automotive Collision Repair: 3 elective credits each year

Students learn to repair and refinish damaged vehicles including metal, glass, and plastic components. Certifications and college credit available

Automotive Technology: 3 elective credits each year

Basic automotive maintenance including, engine diagnosis and repair; automotive computer controlled systems i.e. fuel injection and anti-lock brakes; transmission services; oil changes; tire repair; steering repair. Certifications and college credit available

Business Management Technology: 3 elective credits each year

This program prepares students to understand the principles surrounding business management practices through the real-life application, internship opportunities, and college-bound coursework. You will identify the importance and need for law in business, while learning the legal and ethical practices of companies, as well as, the laws surrounding them. Finally, you will be able to develop viable business models for launching, growing and expanding a business.

Computer Networking Technology & Cyber Security: 3 elective credits each year

Students will operate and maintain software programs, install computer systems, use technology to research, develop and complete classroom assignments and projects and work towards earning certifications in IC3, A+, Network+ and CCNET
College credit is available with this program.

Construction: 3 elective credits each year

Build your dreams with skills that will last a lifetime. Students learn basic carpentry, masonry, electrical and plumbing in addition to employability skills necessary to gain employment. Certifications and college credit available.

Cosmetology: 3 elective credits each year

Students work toward earning their Ohio State Board of Cosmetology License. 120-hour internship necessary for license. Students learn to work in a salon, perform cuts, chemical services, manicures and face and arm massage. Certification and Cosmetology license available.

Criminal Justice & Security: 3 elective credits each year

Students will learn techniques to secure and protect people and infrastructure from natural and manmade disasters. You will study criminal behavior and how various court systems are used to judge and punish offenders. You will learn how to collect and analyze evidence by using structured and scientific approaches in investigations of crimes.

Culinary Arts: 3 elective credits each year

Students will be provided with a solid foundation in the culinary field including fundamental culinary skills, restaurant operation, and ProStart training. Students have the opportunity to go to work directly in the field or continue at prestigious culinary institutes. Certifications available.

Electrical Engineering Prep: 3 elective credits each year

Students will learn to design and maintain advanced electronic components using modern technology. You will apply principles of residential, commercial and industrial wiring and electrical systems. Upon successful completion of the program, students will earn electrical certifications, while learning basic engineering concepts.

Emergency Medical Services: 3 elective credits each year

This program provides the student with a comprehensive curriculum in public safety and emergency services. The senior year includes the State of Ohio 130 hour Emergency Medical Technician-Basic course (EMT-B). Students participate in clinical experiences. Certifications available.

Heating, Ventilation, & Air Conditioning: 3 elective credits each year

Student will learn the intricacies of installing both heating and air conditioning units with an understanding of fossil fuel combustion systems. Student also learn to apply the principals of residential and commercial wiring. Certifications and college credit available.

Industrial Maintenance Services: 3 elective credits each year

Students will engage in learning related to basic and advanced custodial maintenance technician practices. You will get hands-on experience in woodworking, machinery, electricity, blueprints, and welding. Students will also learn the employability skills necessary to be competitive for employment in this industry.

Information Support Services: 3 elective credits each year

Students will earn all aspects of the technology field, while earning A+, Net+, IC³, and Microsoft Office Specialist certifications. You will learn safety, security and ethical issues involved with computer and social networking. Students will build, evaluate, troubleshoot and maintain computers and networks.

Interactive Multimedia Technology: 3 elective credits each year

Learn by creating, designing, and producing interactive multimedia products and services including websites, 3D design projects, videos, digital photography and interactive games for the community. Take advantage of state of the art technology as well as training in digital media and communication skills. College credit and certifications available.

Internet Programming and Development: 3 elective credits each year

Earn certifications in IC3, CompTIA A+, Comp TIA Net+, ASP, JavaScript, W3 Schools HTML. Students learn to configure software programs, create websites, build databases, and maintain a web server. This class concentrates on web-based information services. College credit and certifications available.

Mechanical Technology Applications: 3 elective credits each year

Students will obtain Mechatronic training while earning nationally recognized certifications. You will gain hands-on experience in woodworking, machinery, electricity, blueprints, and welding. You will learn the employability skills necessary to be competitive for employment in this industry.

Mobile Applications & Technology: 3 elective credits each year

You will learn all aspects of the technology field while earning A+, Net+, IC3, and Microsoft Digital Literacy certificates. You will learn safety, security and ethical issues involved with computer and social networking. You will build, evaluate, troubleshoot and maintain computers and networking.

Patient Care Technician: 3 elective credits each year

Students will be prepared to succeed in the medical field and learn to provide quality patient care, understand medical terminology and project a professional image. Students work to acquire a Phlebotomy certification, an EKG technician certification and other health care certifications.

Plant, Turf & Landscape Management: 3 elective credits each year

Students focus on basic plant science, greenhouse management, landscape construction and design techniques. Students also learn customer service skills and take part in designing and building a garden at the Home and Flower Show and participate in community service projects. Certifications and college credit available.

Sports Medicine: 3 elective credits each year

This curriculum is designed to prepare students for post-secondary education in athletic health fields such as Athletic Trainer, Physical Therapy, Personal Fitness Trainer and Physical Education teacher. Students participate inpatient rehabilitation and treatment related to athletic injuries. College credit/Certifications

Teaching Professions Pathway: 3 elective credits each year

Students will participate in field experiences at local schools and preschools, develop a professional portfolio. Students will study child growth and development, curriculum and teaching strategies, and learn effective classroom management techniques. College credit and certifications available.

Welding: 3 elective credits each year

Learn a skill that is in high demand in the current job market. Students in this program work with community partners including Lincoln Electric and earn welding certifications that may lead right into internships and employment. Certifications available.

Online Academic Courses

With approval from Riverside High School, all Auburn Career Center students can opt to enroll in On-line English and/or On-line Math during junior and senior years at no additional cost. Auburn students utilize Backboard technology to access the following courses:

American Literature – Grade 11

British Literature – Grade 12

Algebra 2 (only if there is a conflict with RHS schedule)

Advanced Mathematics (only if there is a conflict with RHS schedule)

Pre-Calculus (only if there is a conflict with RHS schedule)

During the academic year, English and Math courses will be utilizing technology for the basis of their instruction. All of these courses are aligned to Common Core State Standards. The advantage of online learning courses being used at Auburn is that students will gain additional time in their career and technical program.

Online English courses include American Literature and British Literature with units on technical writing and writing assignments related to their career program. Orientation training sessions are held for new students at the beginning of school, and support is available from teachers when needed. As students demonstrate their ability to navigate the course and meet deadlines on their own, they will be released to complete the course on their own time. Even though students can manage their learning schedule on their own, should a student fall behind in meeting their course responsibilities or if a student has a question, students can still meet with their English teacher face-to-face and conference with them.

Online math students will be using an online textbook course. Orientation training sessions are held for new students at the beginning of school, and support is available from the teachers when needed. As students demonstrate their ability to navigate the courses and meet deadlines on their own, they will be released to complete the courses on their own time. From the teacher grade book, lessons taught will be focused on reinforcing the math concepts that students are demonstrating need for additional instruction and tutoring.

College Credit Plus (CCP)

Ohio's new College Credit Plus can help you earn college and high school credits at the same time by taking college courses from community colleges or universities. The purpose of this program is to promote rigorous academic pursuits and to provide a wide variety of options to college-ready students. Taking a college course from a public college or university through College Credit Plus is free. That means no cost for tuition, books or fees. If you choose to attend a private college or university, you may have limited costs.

Riverside High School has the following requirements for participating in the College Credit Plus program.

1. In February of the current school year, the student and a parent/guardian are encouraged to attend an informational meeting held at Riverside High School. At this meeting, representatives from both Lakeland Community College and Lake Erie College will be on hand to provide information about taking CCP courses at their respective institutions. Students may take CCP courses at any post-secondary school in Ohio. Students who want to attend a school other than Lakeland Community College or Lake Erie College should talk with their child's guidance counselor to get information on that school. Once a student has participated in the CCP program, they will **not** be required to attend this meeting in subsequent years.
2. Two forms; *Information Certification* and *Intent to Participate* must be signed and received by Riverside High School by a deadline, which will be set each year. This is usually the last Friday in the month of March. These forms will be available at the CCP informational meeting and in the Riverside Guidance Office the following day.
3. Students will be required to score at an appropriate level on either the ACCUPLACER Placement exam or the ACT. Failure to meet the appropriate placement score will disqualify a student from participating in the CCP program.
4. Students will meet with a school counselor to help determine which courses will be taken at the college level and which (if any) will be taken at Riverside High School.
5. Students will schedule an appointment with a college advisor to set up their college courses.
6. The student will have their school counselor sign off on the college course selection form. This form will be returned to the college.

Dual Enrollment

Dual Enrollment is a branch of the College Credit Plus program, whereby, students can enroll in college-level courses taught at Riverside High School by a Riverside High School teacher. Currently, we are working in conjunction with Lakeland Community College. Students will receive college credit from Lakeland Community College for Dual Enrollment courses taken at Riverside High School. All of the requirements listed above for College Credit Plus will be the same for the Dual Enrollment courses.

Below are the course descriptions for the current Dual Enrollment course that will offer at Riverside High School.

ENG330 – English Composition 1 CCP (Lakeland – ENGL1110) – 1 semester GPA Weighted course

Prerequisite: placement test

This course focuses on the writing process and on the composition of expository writing assignments, including personal, informational, and critical essays. Students will read and analyze expository and imaginative texts (fiction, nonfiction, poetry, or drama).

ENG340 – English Composition II CCP (Lakeland – ENGL1120) – 1 semester GPA weighted course

Prerequisite: placement test

This course analyzes argumentative strategies, models, and texts. Students will focus on the research process: identifying sources through electronic and print-based research strategies, evaluating research materials, and integrating and synthesizing research material. The course culminates in the production of a fully documented argumentative paper.

MTH510 – College Algebra CCP (Lakeland – MATH1650) – 1 semester

Prerequisite: placement test & completion of high school Algebra 2

This course investigates relations and functions numerically, analytically, and graphically. Topics include solutions of polynomial and rational equations and inequalities; exponential and logarithmic equations; systems of linear and non-linear equations; conic sections; sequences and series; and mathematical modeling. Students will need to supply a graphing utility; the instructor will provide details.

MTH520 – Trigonometry CCP (Lakeland – MATH1700) – 1 semester

Prerequisite: MTH550 College Algebra or placement test

This course includes the study of trigonometric functions and inverse trigonometric functions and their graphs; solutions of right and oblique triangles and their applications; solutions of trigonometric equations; the use of identities, vectors, and complex numbers; and graphs of polar and parametric equations. Students will need to supply a graphing utility; the instructor will provide details.

SOC230 – World Civilization 1 – (Lakeland – HIST1150) – 1 semester

Prerequisite: Placement into CCP program

This course provides a survey of the origins and growth of the social, religious, political, and economic foundations of Western European culture through the end of the Reformation, concluding in 1648.

SOC240 - World Civilization 2 – (Lakeland – HIST1250) – 1 semester

Prerequisite: Placement into CCP program

This course provides a survey of the development of modern European society from the age of absolutism to the present. It is designed to provide students with an understanding of the political, religious, economic, intellectual, and cultural evolution of the western tradition from 1648 to the present.

