

Fine Arts Department – Art

Course choice for each grade level

9	<ul style="list-style-type: none">• Fundamentals of Art I & II
10	<ul style="list-style-type: none">• Fundamentals of Art I & II• Drawing I & II
11	<ul style="list-style-type: none">• Fundamentals of Art I & II• Drawing I & II• Digital Art/ Photography I & II
12	<ul style="list-style-type: none">• Fundamentals of Art I & II• Drawing I & II• Digital Art/ Photography I & II

Fine Arts Department - Art

40821 Fundamentals of Art

Course Information: ½ credit (non-repeatable); grades 9, 10, 11 & 12

Prerequisite: None

Description: This beginning level survey course will introduce students to art elements and principles. It will teach them how to discover and use basic art concepts and techniques in any kind of art work. Presentations and lectures will give students some understanding of the importance of design in relationship to their environment and culture. This course will explore a wide variety of crafts and mediums creating sculpture, mixed media, ceramics and jewelry.

40822 Fundamentals of Art II

Course Information: ½ credit (non-repeatable); grades 9, 10, 11 & 12

Prerequisite: Fundamentals of Art I

Description: This course will introduce students to periods of art and major artists. Students will explore and discover the various mediums used to create famous works. Students will research periods, styles, techniques and influences. Principles and concepts of composition in visual art are learned. Art elements may be taught through studying and creating. Audio visuals will aide in exposing students to art history. This course will teach students to create crafts that have great aesthetics and useful in everyday life. Students will create projects skillfully made by hand that are decorative and useful.

50811 Drawing I

Course Information: ½ credit (non-repeatable); grades 10, 11, & 12

Prerequisite: One semester of Fundamentals I or written recommendation of instructor

Description: Students will be introduced to different art mediums that are used to create drawings. Different subject matter will be used to create art, portraits, landscapes, still life, seascapes and abstract.

50812 Drawing II

Course Information: ½ credit (non-repeatable); grades 10, 11, & 12

Prerequisite: Drawing I

Description: The focus of this class is advanced methods and techniques in drawing. All subject matter will be expected to be rendered in realistic fashion with shared gradations and high lights. The use of various mediums such as charcoal, pencils, ink, and colored pencils are used to represent texture, tone, volume and rhythm.

80821 Digital Art/ Photography I

Course Information: ½ credit (non-repeatable); grades 11 & 12

Prerequisite: None

Description: Students in this class explore how digital technology through either computers and or cameras can be used to create and or assist in producing various forms of artwork. Students learn about the operation of the camera, composition, lighting techniques, and depth of field, filters, camera angles and film development. Mat framing and exhibiting are a measurable part of the course also.

80822 Digital Art/ Photography 2

Course Information: ½ credit (non-repeatable); grades 11 & 12

Prerequisite: Digital Art/Photography I or written recommendation of instructor

Description: Students become more adept in both the art form and in the technological use of the digital camera and computer. Digital photography exposes students to materials, processes and the artistic techniques of taking and developing artistic photographs as works of art. As students advance the instruction regarding the creative process becomes more refined and students are encouraged to develop their own artistic style. Mat, framing and exhibiting is a measurable part of the course as well.

AVID & ONE GOAL

9	<ul style="list-style-type: none">• AVID Year I
10	<ul style="list-style-type: none">• AVID Year II
11	<ul style="list-style-type: none">• AVID Year III• One Goal Year I
12	<ul style="list-style-type: none">• AVID Year IV• One Goal Year II

40681 AVID - I

Course Information: 1 credit; grade 9

Prerequisite: None

Description: The AVID Elective is the core of AVID Secondary. It targets students in the academic middle–B, C, and even D students—with the desire to go to college and the willingness to work hard. Typically, they will be the first in their families to attend college, and come from groups traditionally underrepresented in higher education. These are students who are capable of completing rigorous curriculum but are falling short of their potential.

AVID places these students on the college track, requiring them to enroll in their school’s toughest courses, such as Honors and Advanced Placement[®]. To support them in the rigorous coursework, AVID students learn organizational and study skills, develop critical thinking, learn to ask probing questions, receive academic help from peers, college tutors, and commitments from actively engaged parents, and participate in enrichment and motivational activities to make their college dreams reality.

50681 AVID - II

Course Information: 1 credit; grade 10

Prerequisite: AVID I

Description: During the tenth grade AVID Elective course, students will refine the AVID strategies to meet their independent needs and learning styles. Students will continue to refine and adjust their academic learning plans and goals, increasing awareness of their actions and behaviors. As students increase the rigorous course load and school/community involvement, they will refine their time management and study skills accordingly. Students will expand their writing portfolio to include: analyzing prompts, supporting arguments and claims, character analysis and detailed reflections. Students will also analyze various documents, in order to participate in collaborative discussions and develop leadership skills in those settings. Students will expand their vocabulary use, continuing to prepare for college entrance exams and preparation. Text analysis will focus on specific strategies to understand complex texts. Lastly, students will narrow down their college and careers of interest, based on personal interests and goals.

60681 AVID - III

Course Information: 1 credit; grade 11

Prerequisite: AVID II

Description: The eleventh grade AVID Elective course is the first part in a junior/senior seminar course that focuses on writing and critical thinking. In addition to the academic focus of the AVID seminar, there are college-bound activities, methodologies and tasks that should be undertaken during the junior year to support students as they apply to four-year universities and confirm their post-secondary plans.

70781 AVID - IV

Course Information: 1 credit; grade 12

Prerequisite: AVID III

Description: The AVID Elective twelfth grade course is the second part in a junior/senior seminar course that focuses on writing and critical thinking expected of first and second year college students. Students will complete a final research essay project from research conducted in their junior year in AVID. In addition to the academic focus of the AVID senior seminar, there are college-bound activities, methodologies and tasks that should be achieved during the senior year that support students as they apply to four-year universities and confirm their postsecondary plans. All AVID seniors are required to develop and present a portfolio representing their years of work in the AVID program, as well as complete the requirements for the seminar course.

69101 One Goal – Yr. I

Course Information: 1 credit; grade 11

Prerequisite: GPA 2.2-3.4; On Track to graduate on time.

Description: The One Goal Y1 course curriculum provides high school juniors with opportunities and resources to explore college as a realistic, attainable, post-high school option. The daily 45-minute lessons leverage an intensive college awareness curriculum and emphasize building academic behaviors of successful students. Y1 also includes college entrance exam preparation to maximize potential, improve college admissions options and open new doors for One Goal Fellows.

79101 One Goal – Yr. II

Course Information: 1 credit; grade 12

Prerequisite: One Goal Yr. I

Description: _____

Career and Technical Education Pathways of Study

Career and Technical Education offers several pathways of study. Students should consider these courses based on their career interests. The “Preferred” diploma is recommended for Audio/Visual Technology and Communications and Business Education Pathways. The “Traditional” diploma is recommended with a concentration in Career & Technical Education for Cosmetology, Culinary Arts, Education, Health Science, Automotive, Construction, Electrical Trades, and Welding Pathways.

CTE Pathways	Grade 9	Grade 10	Grade 11	Grade 12
Audio/Visual Technology and Communications	Career Exploration	Intro to Mass Communication <i>(Dual Credit)</i>	Intro to Mass Communication <i>(Dual Credit)</i> or Radio Production	Intro to Mass Communication <i>(Dual Credit)</i> or Radio Production or Video Production and Work-Based Learning
Business Education and Technology	Career Exploration or Computer Applications or Keyboarding	Accounting I or Entrepreneurship or Information Processing I <i>(Dual Credit)</i>	Accounting I or Accounting II or Entrepreneurship or Information Processing I <i>(Dual Credit)</i>	Accounting I or Accounting II or Entrepreneurship or Information Processing I <i>(Dual Credit)</i> and Work-Based Learning
Human and Health Services				
Cosmetology	Beginning Cosmetology <i>(15 years of age)</i> or Career Exploration	Beginning Cosmetology or Cosmetology I	Cosmetology I	Cosmetology II
Culinary Arts	Career Exploration	Nutrition and Wellness <i>(Dual Credit)</i>	Culinary Occupations I or Nutrition and Wellness <i>(Dual Credit)</i>	Nutrition and Wellness <i>(Dual Credit)</i> or Culinary Occupations I or Culinary Occupations II and Work-Based Learning
Education	Career Exploration or Foundations of Education	Foundations of Education	Educational Methodology <i>(Dual Credit)</i>	Instructional Technology <i>(Dual Credit)</i> and Work-Based Learning

CTE Pathways	Grade 9	Grade 10	Grade 11	Grade 12
Health Science	Career Exploration	Orientation to Health Careers (STEM)	Orientation to Health Careers (STEM) or Medical Terminology	Nurse Assistant (CNA certificate) (Dual Credit)
Industrial Arts				
Automotive	Career Exploration or Introduction to Technology and Engineering (STEM)	Beginning Automotive Services	Beginning Automotive Services or Automotive Technician I	Automotive Technician I or Automotive Tech II and Work-Based Learning
Construction	Career Exploration or Introduction to Technology and Engineering (STEM)	Beginning Construction	Beginning Construction or Construction I (Dual Credit)	Beginning Construction or Construction I (Dual Credit) or Construction II (Dual Credit) and Work-Based Learning
Electrical Trades	Career Exploration or Introduction to Technology and Engineering (STEM)	Beginning Electricity	Beginning Electricity or Electrical Trades I	Beginning Electricity or Electrical Trades I or Electrical Trades II (Dual Credit) and Work-Based Learning
Welding	Career Exploration or Introduction to Technology and Engineering (STEM)	Beginning Welding I	Beginning Welding or Welding Technology I (Dual Credit)	Beginning Welding or Welding Technology I (Dual Credit) Welding Technology II (Dual Credit) and Work-Based Learning

**Career and Technical Education
Business Education Department
Course Choice for Each Grade Level**

9	<ul style="list-style-type: none">● Career Exploration● Keyboarding
10	<ul style="list-style-type: none">● Accounting I● Entrepreneurship (available 2025)● Information Processing I (Dual Credit)● Intro to Mass Communication (Dual Credit)
11	<ul style="list-style-type: none">● Accounting I● Accounting II● Entrepreneurship(available 2025)● Information Processing I (Dual Credit)● Intro to Mass Communication (Dual Credit)● Radio Production
12	<ul style="list-style-type: none">● Accounting I● Accounting II● Entrepreneurship (available 2025)● Information Processing I (Dual Credit)● Intro to Mass Communication (Dual Credit)● Radio Production● Video Production● Work-Based Learning

Career and Technical Education Business Education Department

40990 Career Exploration

Course Information: ½ credit; grade 9

Prerequisite: None

Description: Career Exploration helps students identify and evaluate personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their careers. This course exposes students to various sources of information on career and training options and may also assist them in developing job search and employability skills.

58301 Keyboarding

Course Information: ½ credit; grade 9

Prerequisite: None

Description: Keyboarding is a course designed to develop basic skills in touch keyboarding techniques for entering alphabetic, numeric, and symbol information found on computers and terminals. Students will format documents such as letters, envelopes, memorandums, reports, and tables for personal, educational, and business uses.

40971 Intro to Mass Communication - Dual Credit

Course Information: 1 credit; grades 10, 11 & 12

Prerequisite: None

Description: Intro to Mass Communication enables students to understand and critically evaluate the role of media in society. The course content typically includes investigation of visual images, printed material, and audio segments as tools of information, entertainment, and communication to influence opinion; improvement of presentation and evaluative skills in relation to mass media; recognition of various techniques for delivery of a particular message; and, in some cases, creation of a media product. The course may concentrate on a particular medium.

85200 Information Processing I – Dual Credit

Course Information: 1 credit; grades 10, 11 & 12

Prerequisite: Keyboarding and Computer Applications

Description: Information Processing I is a skill-level course that includes the concepts and terminology related to the people, equipment, and procedures of information processing as well as skill development in the use of information processing equipment. Students will operate computer equipment to prepare memos, letters, reports, and forms.

83400 Accounting I

Course Information: 1 credit; grades 10, 11 & 12

Prerequisite: None

Description: Where does the money go? You wouldn't go to a foreign country and not learn the language. Accounting is the "language of business"; this course will assist those students wanting to pursue a career in business, marketing, and management. Accounting skills can help students keep track of money for business and personal use. Students will be exposed to business terms, payroll procedures, business careers, computerized accounting, and banking operations that can be useful in everyday life.

83411 Accounting II

Course Information: 1 credit; grades 11 & 12

Prerequisite: Accounting I

Description: Accounting II is a course that builds upon the foundation established in Accounting I. This course is planned to help students to develop a deeper knowledge of the principles of accounting with more emphasis being placed on financial statements and accounting records. It is a study of previously learned principles as they apply to the more complicated types of business organizations: partnerships, corporations, branches, etc. The students may become familiar with such specialized fields of accounting as cost accounting, tax accounting, payroll accounting, and others. Some students may choose to do specialized accounting computer applications, and others may elect payroll clerk and data processing computer applications. Simulated business conditions may be provided through the use of practice sets. Skills are developed in the entry, retrieval, and statistical analysis of business data using computers for accounting business applications.

97401 Radio Production

Course Information: 1 credit; grades 11 & 12

Prerequisite: Intro to Mass Communication

Description: This course is designed to provide students with the skills needed for a career in the technical aspects of radio and television broadcasting. Instruction includes camera operations, basic audio and video editing, sound and lighting techniques, and sound mixing. Students learn the operation, maintenance, and repair of video and DVD recording equipment, video /digital cameras, microphones, computers, lighting/grip equipment, and other production equipment used in the video and audio production of television programs. Students also learn to use, maintain, and repair various types of audio recorders, amplifiers, transmitters, receivers, microphones, and sound mixers to record and broadcast radio programs.

97201 Video Production

Course Information: 2 credits; grade 12

Prerequisite: Radio Production

Description: Students in this course will work in a team-based environment to create a variety of video and audio-related broadcasts. Students learn how to use digital editing equipment and software. The course also provides students with an understanding of the FCC and other governmental agencies regulations related to radio and television broadcasting.

96001 Work-Based Learning Class
96005 Work-Based Learning Experience

Course Information: 3 credits; grade 12

Prerequisite: Enrolled in Career Pathway

Description: Work-Based Learning is a capstone course designed to assist students in the development of effective skills and attitudes through practical, advanced instruction in school and on the job through workplace experience. Students are released from school for their paid work experience and participate in 200 minutes per week of related classroom instruction. Classroom instruction focuses on providing students with job survival skills and career exploration skills related to the job and improving students' abilities to interact positively with others. For skills related to the job, refer to the skill development course sequences, the task list or related occupational skill standards of the desired occupational program.

The Work-Based Learning course provides students with work experience in fields related to their chosen career interest. Goals must be set cooperatively by the student, teacher, and employer. This course must include classroom instruction involving further study of the field, discussion of relevant topics that are responsive to the workplace experience and employability skill development. The Work-Based Learning course must be taught by an approved WBL educator-coordinator. This course aligns with a Career Development Experience that includes: Student-led Enterprises; School-based Enterprises; Immersion Supervised Agricultural Experiences; Clinical Experiences in Health Science and Technology programs; Internships; and Apprenticeship programs including Youth Apprenticeships, Pre-apprenticeships, and Registered Apprenticeships.

83521 Entrepreneurship

Course Information: 1 credit; grade 10, 11, & 12

Prerequisite: None

Description: Entrepreneurship acquaints students with the knowledge and skills necessary to own and operate their own businesses. The course content includes economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communication.

**Career and Technical Education
Industrial Arts Department
Course Choice for Each Grade Level**

9	<ul style="list-style-type: none"> • Career Exploration • Introduction to Technology and Engineering (STEM)
10	<ul style="list-style-type: none"> • Beginning Automotive Services • Beginning Construction • Beginning Electricity • Beginning Welding I
11	<ul style="list-style-type: none"> • Beginning Automotive Services • Beginning Construction • Beginning Electricity • Beginning Welding I • Automotive Technician I • Construction I (Dual Credit) • Electrical Trades I • Welding I (Dual Credit)
12	<ul style="list-style-type: none"> • Automotive Technician I • Construction I (Dual Credit) • Electrical Trades I • Welding I (Dual Credit) • Automotive Technician II • Construction II (Dual Credit) • Electrical Trades II (Dual Credit) • Welding II (Dual Credit) • Work-Based Learning

**Career and Technical Education
Industrial Arts Department**

40910 Introduction to Technology and Engineering (STEM)

Course Information: 1 credit; grade 9

Prerequisite: None

Description: Introduction to Technology & Engineering is comprised of the following areas: Production, Transportation, Communication, Energy Utilization, and Engineering Design but is not limited to these areas only. The course will cover the resources, technical processes, industrial applications, technological impact, and occupations encompassed by that system.

59100 Beginning Automotive Services

Course Information: 1 credit; grades 10 & 11

Prerequisite: None

Description: Beginning Automotive Service emphasizes preventative auto maintenance and automobile troubleshooting. Students will also be introduced to mechanic tools and how they apply to shop and equipment repairs.

59200 Beginning Construction

Course Information: 1 credit; grades 10 & 11

Prerequisite: None

Description: This course exposes students to the opportunities available in construction-related trades, such as carpentry, plumbing, and so on. The course also includes organized learning activities in the study of construction materials safety, site development, footing and foundation, floor framing, wall framing, roof framing, and applying studies by building scale model framing projects and a variety of small projects.

59300 Beginning Electricity

Course Information: 1 credit; grades 10 & 11

Prerequisite: Introduction to Technology and Engineering

Description: This course provides a survey of the theory, terminology, equipment, and practical experience in the skills needed for careers in the electrical field. This course typically includes AC and DC circuitry, safety, and the National Electrical Code and may cover such skills as those involved in building circuits; wiring residential, installing lighting, power circuits, and cables. The course also provides hands-on experiment training, allowing students to examine the concept taught.

59102 Beginning Welding

Course Information: 1 credit; grades 10 & 11

Prerequisite: None

Description: This course enables students to gain knowledge of the properties, uses and applications of various metals, skills in various processes used to join and cut metals, and experience in identifying, selecting, and rating appropriate techniques.

91200 Automotive Technician I

Course Information: 2 credits; grades 11 & 12

Prerequisite: Beginning Automotive Services

Description: This course introduces students to the basic skills needed to inspect, maintain, and repair automobiles and light trucks that run on gasoline, electricity, or alternative fuels. The course will develop problem-solving abilities through the proper use of hands-on lab experiences and equipment.

92200 Construction Trades I – Dual Credit

Course Information: 2 credits; grades 11 & 12

Prerequisite: Beginning Construction

Description: This course will provide experience related to the erection, installation and maintenance of residential buildings and related fixtures. Planned learning activities allow students to understand fundamental principles and methods and develop technical skills related to carpentry and finished work.

94000 Electrical Trades I

Course Information: 2 credits; grades 11 & 12

Prerequisite: Beginning Electricity

Description: This course is designed to provide students with instruction and training in areas that prepare them to enter the electrical trades. Areas of instruction include electrical theory, circuit design and operation, the national electrical code, blueprint reading, construction blueprint interpretation, and test equipment usage.

96400 Welding Technology I – Dual Credit

Course Information: 2 credits; grades 11 & 12

Prerequisite: Beginning Welding I

Description: This course assists students in gaining knowledge and developing the basic skills needed to be successful in welding technology. In addition, students learn the basics of blueprint reading, precision measuring, layout, and production process planning.

91400 Automotive Technician II

Course Information: 2 credits; grade 12

Prerequisite: Automotive Technician I (or request of the instructor)

Description: This course builds on the skills and concepts introduced in Automotive Technician I. It includes instructional units in alternative fuel systems, computerized diagnostics, new vehicle servicing, automotive heating, and air conditioning, transmissions, testing and diagnostics, drive train, and overall automobile performance.

92240 Construction Trades II – Dual Credit

Course Information: 2 credits; grade 12

Prerequisite: Construction Trades I (or request of the instructor)

Description: This course provides learning experiences related to the erection, installation, maintenance, and repair of building structures and related utilities. All learning experiences are designed to allow the student to acquire job-entry skills and knowledge.

94200 Electrical Trades II - Dual Credit

Course Information: 2 credits; grade 12

Prerequisite: Electrical Trades I (or request of the instructor)

Description: This course centers around advancing basic theory, multi-phase electricity, transmission, and delivery systems, electronic and advanced motor controls, alarm and sensory systems, light commercial and industrial wiring, and advanced circuit design. Students continue to gain practical skills by working on trainers, mockups, and on-the-job projects.

96600 Welding Technology II – Dual Credit

Course Information: 2 credits; grade 12

Prerequisite: Welding Technology I (or request of the instructor)

Description: This course provides more in-depth skill development in various types of welding including horizontal, vertical, overhead, and circular techniques. Students also explore the use of robotic and automated production welding.

**Career and Technical Education
Human and Health Services
Course Choice for Each Grade Level**

9	<ul style="list-style-type: none"> ● Beginning Cosmetology (15 years of age) ● Career Exploration ● Foundations of Education
10	<ul style="list-style-type: none"> ● Beginning Cosmetology ● Cosmetology I ● Foundations of Education ● Orientation to Health Careers ● Culinary Arts I/Rest. Management (Dual Credit)
11	<ul style="list-style-type: none"> ● Cosmetology I ● Culinary Occupations I ● Educational Methodology (Dual Credit) ● Medical Terminology ● Orientation to Health Careers ● Culinary Arts I/Rest. Management (Dual Credit)
12	<ul style="list-style-type: none"> ● Cosmetology II ● Culinary Occupations I ● Culinary Occupations II ● Instructional Technology (Dual Credit – available 2025) ● Nurse Assistant (Dual Credit)

Career and Technical Education Human and Health Services

40881 Foundations of Education

Course Information: 1 credit, grades 9 & 10

Prerequisite: None

Description: This course introduces students to the principles underlying teaching and learning, the responsibilities and duties of teachers, and strategies and techniques to deliver knowledge and information. A combination of classroom and field experiences will enable the student to gain skilled knowledge and understanding of the education profession. Course content includes projects to develop an understanding of the learner and the learning process, instructional planning, the learning environment, assessment and instructional strategies, career opportunities in the field of education, and Illinois regulations and licensing requirements.

60771 Educational Methodology - Dual Credit

Course Information: 1 credit, grade 11

Prerequisite: Foundations of Education

Description: This course provides an opportunity for students to develop skills to teach and guide others. Coursework includes opportunities for students to create and develop teaching objectives, design lesson plans, and experience teaching in a controlled environment. Students examine and practice teaching strategies, learning styles, time management, and planning strategies, presentation and questioning skills, classroom management, and evaluation techniques. Students will explore opportunities in education careers and develop/expand their career portfolio.

80771 Instructional Technology - Dual Credit

Course Information: 1 credit, grade 12

Prerequisite: Educational Methodology

Description: Instructional Technology courses address the implementation of technical devices and processes that are used to improve and facilitate learning. Content includes, but is not limited to, productivity tools, interactive multimedia, communications, educational software and hardware, instructional applications, and ethical, legal, social, and professional issues.

58801 Culinary Arts I/Restaurant Management - Dual Credit

Course Information: 1 credit; grades 10, 11 & 12

Prerequisite: None

Description: This course concentrates on expanding students' knowledge and experiences with nutrition concepts, food science, and healthy lifestyles. Nutritional analysis, nutrient functions, food allergies, diet and disease, menu analysis, energy and wellness, meal planning and management, nutritional needs across the life span, impacts of science and technology on nutrition and wellness issues, and food safety and sanitation management are discussed.

90000 Culinary Occupations I

Course Information: 2 credits; grades 11 & 12

Prerequisite: Nutrition and Wellness

Description: This course provides terminology, culinary math, and practical experiences needed for the development of culinary competencies and workplace skills. Safety and sanitation instruction and classroom application prepare students for an industry-recognized sanitation exam. Students learn on commercial equipment.

90100 Culinary Occupations II

Course Information: 2 credits; grade 12

Prerequisite: Culinary Occupations I (or request of the instructor)

Description: This course places special emphasis on students developing operational management skills-including the design and organization of food service systems in a variety of settings, human relations, and personnel training and supervision.

58700 Orientation to Health Careers (STEM)

Course Information: 1 credit; grades 10, 11 & 12

Prerequisite: None

Description: This course exposes students to the variety of opportunities available within the health care industry. The main purpose of this course is to assist students in the further development of their self-concept and in matching personal abilities and interests to a tentative career choice.

86500 Cosmetology I

Course Information: 3 credits; grades 10 & 11
Prerequisite: Beginning Cosmetology; 15 years of age

Description: This course introduces students to the requirements to become a licensed cosmetologist. It offers students instruction in both theory and practical application. Knowledge, skills, and activities completed in this course will help prepare students for Cosmetology II while earning hours toward licensure.

86600 Cosmetology II

Course Information: 3 credits; grades 11 & 12
Prerequisite: Cosmetology I

Description: This course provides instruction and hands-on experience in the following areas: practical chemical application/hair treatment, hair styling/hairdressing, shop management, sanitation, and interpersonal relations. It offers a curriculum of advanced theoretical and practical skill development to prepare students for the cosmetology licensure examination and progression to obtain 1500 hours of study in cosmetology.

87200 Medical Terminology

Course Information: 1 credit; grades 11 & 12
Prerequisite: Orientation to Health Careers

Description: In Medical Terminology courses students learn how to identify medical terms by analyzing their components. These courses emphasize defining medical prefixes, root words, suffixes, and abbreviations. The primary focus is on developing both oral and written skills in the language used to communicate within healthcare professions.

87400 Nursing Assistant - Dual Credit

Course Information: 2 credits; grade 12
Prerequisite: Orientation to Health Careers; Medical Terminology; Cumulative GPA 2.5

Description: This course is composed of a combination of subject matter and experiences designed to perform tasks of individuals receiving nursing services. The student learns those competencies needed to perform as a nurse assistant while covering general health care topics; medical terminology; patients/clients and their environment; special feeding techniques; psychological support in long-term and terminal illness, death and dying; and all other basic nursing skills.

English

Course choice for each grade level

9	<ul style="list-style-type: none">• Honors English I (NCAA)• English I (NCAA)
10	<ul style="list-style-type: none">• Honors English II• English II (NCAA)• AP Seminar
11	<ul style="list-style-type: none">• English III – AP English Language and Composition (NCAA)• English III (NCAA)• AP Research• Creative Writing – SWIC (Dual Credit)
12	<ul style="list-style-type: none">• English IV – AP English Literature and Composition (NCAA)• First Year English I – SWIC (Dual Credit)• First Year English II – SWIC (Dual Credit)• English IV (NCAA)• African American Lit (NCAA)• Speech Communication (NCAA)• Creative Writing – SWIC (Dual Credit)

English

40200 Honors English I (NCAA)

Course Information: 1 credit; grade 9

Prerequisite: Teacher recommendation and “C” or higher in previous English course

Description: This course compels students to develop a rigorous stance through the study of complex literature and informational text. Literary conventions and stylistic devices will be emphasized with AP strategies. Students will produce grammatically correct argumentative, narrative, and expository essays. Research skills will be introduced. During second semester, students will write a 2-3 page paper utilizing Modern Language Association (MLA) format. Students will participate in diverse media presentations and use critical thinking skills throughout the course. **Summer reading is required.**

40210 English I (NCAA)

Course Information: 1 credit; grade 9

Prerequisite: None

Description: This course requires students to closely examine literature and informational texts. Exploration of each genre’s literary elements; determination of theme and intent; and examination of vocabulary and semantics are often included in the course content. Research will be introduced, and students are taught language/reading skills and vocabulary strengthening. Students will produce grammatically correct argumentative, narrative, and expository essays. Diverse media presentations and critical thinking skills will be demonstrated throughout the course.

50200 Honors English II (NCAA)

Course Information: 1 credit; grade 10

Prerequisite: Teacher recommendation, and completion of honors English I with a “C” or better

Description: This course compels students to develop a rigorous stance through the study of literature and informational text. Literary conventions and stylistic devices will receive greater emphasis than in previous courses and will include AP strategies. Students will produce grammatically correct argumentative, narrative, and expository essays. Research will be practiced and sharpened as students write at least two 2-3 page research papers utilizing MLA each semester. Students will participate in diverse media presentations and use critical thinking skills throughout the course. **Summer reading is required.**

50210 English II (NCAA)

Course Information: 1 credit; grade 10

Prerequisite: None

Description: This course requires students to closely examine literature and informational texts. There is an emphasis on critical thinking and further development of research. They will continue performing activities focused on language/reading skills and vocabulary strengthening. Exploration of each genre's literary elements; determination of theme and intent; and examination of vocabulary and semantics are often included in the course content. Students will write a 2-3 page research paper using MLA format and produce grammatically correct argumentative, narrative, and expository essays. Students will participate in diverse media presentations and use critical thinking skills throughout the course.

60201 English III – AP English Language and Composition (NCAA)

Course Information: 1 credit; grade 11

Prerequisite: Teacher Recommendations and Completion of Pre AP English II with a "C" or better

Description: Designed to be a college level course, rich in higher level thinking, AP English Literature and Composition will challenge, inspire, and enrich the eager literature student. Using works that range from the sixteenth through twenty-first century as well as several genres and modes, the reading, writing, listening, and speaking experiences will broaden students' understanding about the world around us today. Students, therefore, should expect a rigorous undergraduate English experience with intellectual challenges and a considerable workload that culminates with the AP English and Literature Exam in May. Upon earning a 3 or higher, the student will be awarded college credit, accepted at most colleges and universities. **Summer reading is required.**

60210 English III (NCAA)

Course Information: 1 credit; grade 11

Prerequisite: None

Description: This course requires students to closely examine American literature and informational texts. American literature focuses upon commonly known American authors and their work. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the selected works and as they understand how the literature reflects the society of the time. Introduction and exploration of more advanced literary techniques through two or more literary genres, with the aim of creating sophisticated readers will be the focus. They will continue performing activities focused on language/reading skills and vocabulary strengthening with a rigorous stance. Students will produce grammatically correct argumentative, narrative, and expository essays. Students will participate in diverse media presentations and use critical thinking skills throughout the course.

70200 English IV – AP English Literature and Composition (NCAA)

Course Information: 1 credit; grade 12

Prerequisite: Teacher recommendation and completion of AP English Literature with a “C” or better

Description: Advanced Placement English has a two-fold purpose--to expose students to college level material and expectations and to prepare those who are willing to take the Advanced Placement English Exam. It is not assumed that everyone will be partaking of this exam, and thus the course is not designed solely for those who will take the exam. The presumption is that the general demands placed on you in both your reading and writing will prepare you for both the A.P. Exam and/or your college aspirations. College writing requires that you provide insight into the material you read and support that insight with specific, relevant details. Therefore the AP English IV course is designed to foster college and career readiness that will help our students develop the necessary skills requisite for post graduate success. **Summer Reading is required.**

70210 English IV (NCAA)

Course Information: 1 credit; grade 12

Prerequisite: None

Description: This course requires students to closely examine World Literature and informational texts. World Literature uses representative literature selections from ancient and/or modern times from countries around the world. Students improve their critical-thinking skills as they comprehend the diversity of literary traditions and the influences of those traditions. They will continue performing activities focused on language/reading skills and vocabulary strengthening with a rigorous stance. Their writing products will include the following: Job applications, resumes, cover letters, and personal statements, and research papers. A senior project is required for this course. Students will participate in diverse media presentations

*****SEN101 First Year English I – SWIC (Dual Credit)**

Course Information: ½ credit; grade 12

Prerequisite: GPA 2.7

Description: This course focuses on practicing through the writing process, skills in creating clear, concise and carefully edited expository essays and summaries. Essentials of grammar, mechanics, and punctuation are stressed. The course also introduces/reviews MLA format, writing with sources, and critical thinking – the bases for analytical writing.

*****SEN102 First Year English II – SWIC (Dual Credit)**

Course Information: ½ credit; grade 12

Prerequisite: ***SEN101; GPA 2.7

Description: This course offers continued practice in improving writing style and processes, utilizing analytical reading of primary and secondary sources. While practicing how to incorporate sources into compositions for an academic audience, students learn about various research techniques and the consequences of plagiarism. Finally, students learn the mechanics of academic style and research paper layout and format.

70351 Speech Communication (NCAA)

Course Information: ½ credit; grade 12

Prerequisite: None

Description: In this course, students learn to effectively express themselves before an audience. This course provides opportunities to increase their fluency as a speaker and develop their self-confidence. Multiple aspects of public speaking will be covered, and students will receive practical experience through participation. The course introduces the body and poise, public speaking, oral interpretation of literature, and beginning argumentation.

70252 African American Literature (NCAA)

Course Information: ½ credit; grade 12

Prerequisite: None

Description: The African American Literature course has the same aim as general courses which is to improve students' language arts critical-thinking skills but uses literature written by authors who share a particular characteristic such as religion, culture, or gender. Students determine the underlying assumptions and values within the selected works, reflect upon the influence of a common characteristic, and compare the points of view of various authors. Oral discussion is an integral part of this literature course, and written compositions are often required.

CW1071 Creative Writing – SWIC (Dual Credit)

Course Information: ½ credit; grades 11 & 12

Prerequisite: Minimum 2.5 GPA

Description: Creative Writing courses offer students the opportunity to develop and improve their technique and individual style in poetry, short story, drama, essays, and other forms of prose. The emphasis of the courses is on writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft. AS a Dual Credit course offering, this course is offered as a workshop course to give direction and criticism to students who want to write fiction, non-fiction, or poetry. Students participate as part of a critical circle; students are expected to submit their own work as well as to critique the work of others. After practicing the craft of writing, students are encouraged to submit manuscripts to an off-campus publisher.

50201A AP Seminar (NCAA)

Course Information: 1 credit; grade 10

Prerequisite: None

Description: Designed by the College Board to parallel college-level courses in independent research, AP Research courses provide students with the opportunity to conduct an in-depth, mentored research project. Course topics include research methods, ethical research practices, and accessing, analyzing, and synthesizing information to address a research question. Courses culminate with an academic thesis paper and an oral defense of the research design, approach, and findings.

60201A AP Research (NCAA)

Course Information: 1 credit; grade 11

Prerequisite: AP Seminar

Description: Designed by the College Board to parallel college-level courses in critical thinking and communications, AP Seminar courses provide students with the opportunity to explore complex real world issues through cross curricular lenses. Course topics vary and may include local, civic, or global issues and interdisciplinary subject areas. Courses typically emphasize research, communication, and critical-thinking skills to explore the issues addressed. Students may also examine source materials such as articles and other texts; speeches and personal accounts; and relevant artistic and literary works.

19000 English Language and Literature – Workplace Experience

Course Information: 1 credit; grades 9, 10, 11 & 12

Prerequisite: Classification and Administrative Approval

Description: English Language and Literature – Workplace Experience courses provide students with work experience in a field related to English language or literature. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.

50951 Learning Strategies

Course Information: 1 credit; grades 9, 10, 11, & 12

Prerequisite: Classification and Administrative Approval

Description: Learning Strategies courses prepare students for success in high school and/or postsecondary education. Course topics may vary according to the students involved, but typically include reading improvement skills, such as scanning, note-taking, and outlining; library and research skills; listening and note taking; vocabulary skills; and test-taking skills. The courses may also include exercises designed to generate organized, logical thinking, and writing.

**Foreign Language
Department**

**Course choice for each grade
level**

9	<ul style="list-style-type: none">• Spanish I (NCAA)
10	<ul style="list-style-type: none">• Spanish I (NCAA)• Spanish II (NCAA)
11	<ul style="list-style-type: none">• Spanish I (NCAA)• Spanish II (NCAA)
12	<ul style="list-style-type: none">• Spanish I (NCAA)• Spanish II (NCAA)

Foreign Language Department

40110 Spanish I (NCAA)

Course Information: 1 credit; grades 9, 10 & 11

Prerequisite: Completion of English with a “C” or better

Description: This course is a study of the introductory level of Spanish. Students will begin to develop proficiency that should enable them to converse, read, write, listen to and speak at an introductory level of comprehension. Students will begin to construct a knowledge base of the various cultures represented in the Spanish-speaking world.

50110 Spanish II (NCAA)

Course Information: 1 credit; grades 10, 11, & 12

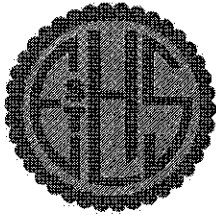
Prerequisite: Spanish I and completion of English with a “C” or better

Description: This course is a study of the intermediate level of Spanish. Students will extend knowledge garnered at the introductory level of study and expand their vocabularies by studying entirely new topics as well as by deepening their experience with selected Spanish I topics. Students will continue to develop proficiency that should enable them to converse, read, write, listen to and speak at an intermediate level of comprehension.

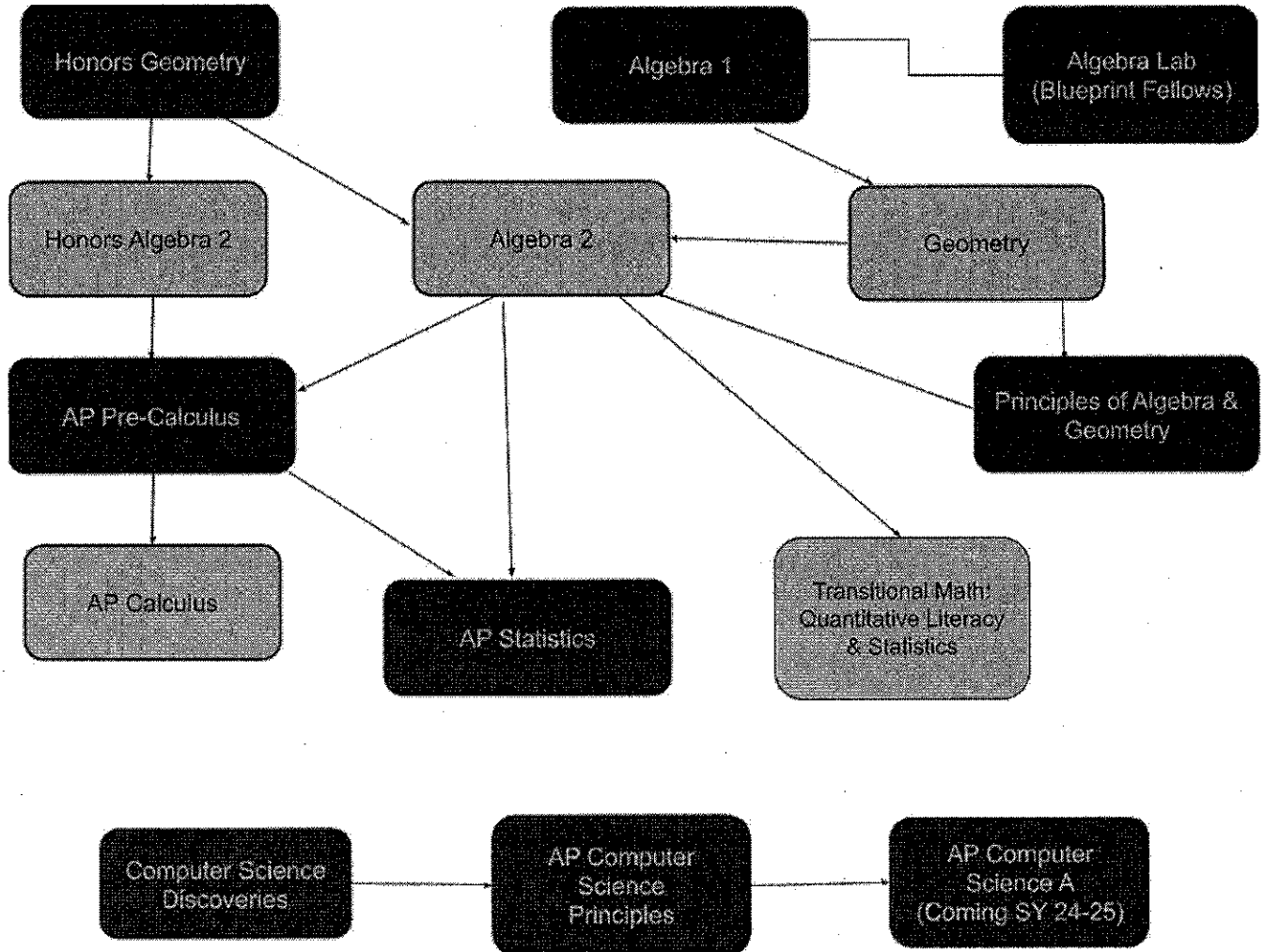
**Math
Department**

**Course choice for each grade
level**

9	<ul style="list-style-type: none">• Honors Geometry (NCAA)• Algebra I (NCAA)• Algebra I Lab
10	<ul style="list-style-type: none">• Geometry (NCAA)• Honors Algebra II (NCAA)• Computer Science Discoveries
11	<ul style="list-style-type: none">• Principles of Algebra and Geometry• Algebra II (NCAA)• AP Computer Science Principles (NCAA)• AP Statistics (STEM) (NCAA)• AP Pre- Calculus (STEM) (NCAA)
12	<ul style="list-style-type: none">• Algebra II (NCAA)• High School Transitional Math 4 - Quantitative Literacy and Statistics• AP Computer Science Principles (NCAA)• AP Statistics (STEM) (NCAA)• AP Pre- Calculus (STEM) (NCAA)• AP Calculus AB (STEM) (NCAA)• AP Computer Science A (NCAA) (available 2025)



**East Saint Louis Senior High School
Math Department Course Sequence**
This is the current course sequence that is
used for math placement.



40310 Algebra I (NCAA)

Course Information: 1 credit; grade 9

Prerequisite: None

Description: Students will analyze and explain the process of solving an equation. They will develop fluency in writing, interpreting and translating between various forms of linear equations, inequalities, and using them to solve problems. Students will explore and interpret functions graphically, numerically, symbolically and verbally. They will use regression techniques to make judgments about their models. They will explore systems of equations and inequalities and find & interpret their solutions. They will extend the laws of exponents to include rational exponents. Students will create and solve equations, inequalities and systems of equations involving quadratic expressions. They will interpret various forms of quadratic functions. Students will expand their experience with functions to include absolute value, step and those that are piecewise-defined.

40300 Honors Geometry (NCAA)

Course Information: 1 credit; grade 9

Prerequisite: Successful completion of Algebra 1 with a “C” or better, & teacher/counselor recommendation

Description: Students will establish triangle congruence based on analyses of rigid motions and formal constructions. This is the foundation for the development of formal proof. Students will prove theorems, using a variety of formats, and solve problems about triangles, quadrilaterals and other polygons. Students will use dilations and proportional reasoning to build an understanding of similarity. Students will use similarity in right triangles to understand right triangle trigonometry. Student will informally explain circumference, area and volume formulas of two and three-dimensional objects. Students will use a coordinate system to verify geometric relationships, including properties of special triangles and quadrilaterals and slopes of parallel and perpendicular lines. Students will prove basic theorems about circles and use the distance formula to write the equation of a circle. Students will also use the language of set theory to compute and interpret theoretical and experimental probability for compound events.

50040 Geometry (NCAA)

Course Information: 1 credit; grades 10

Prerequisite: Successful completion or concurrent enrollment of Algebra I

Description: Students will study the properties of points, lines, planes and angles in a Euclidean context, explore triangle relationships and determine congruency and similarity. Students will compare classify and find the area of polygons, classify solid figures and determine surface area and volume. Right triangle trigonometry will be introduced. Students will find angle measure and segment lengths related to circles and perform transformations of geometric figures. Informal proofs will be introduced. Deductive reasoning and graphing calculators will be used throughout this course.

40731 Algebra I Lab

Course Information: 1 credit (*elective Credit Only*); grade 9

Prerequisite: Previous math class grades, NWEA data, and teacher recommendation will be used for placement. (Students will have a double period of math instruction each day.) Students may waive PE and be placed in this course.

Description: This one-hour course will be taken concurrently with the student's regular math course. This course will provide intensive instruction on areas of individual skill deficits. It will support and reinforce the concepts of being taught in the math courses. Students will expand their problem solving experience to further develop their reasoning, representation, connections and communication skills. Students will experience activities that reinforce and enhance their understanding of mathematical concepts taught in a regular class. Learning will be experience through concrete and modeling activities, whenever possible, with less emphasis on computational or symbolic manipulation. Instructional activities will include the use of graphing calculators, manipulative and computer software.

50010 Honors Algebra II (NCAA)

Course Information: 1 credit; grades 10

Prerequisite: Successful completion of Geometry with a grade of "C" or better.

Description: Students will build on their work with linear, quadratic and exponential functions. They will extend their repertoire of functions to include polynomial, rational and radical functions. Students will work closely with the expressions that define the functions and continue to expand and build upon their abilities to model situation and solve equations. This will include solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Students will model periodic phenomena with trigonometric functions and prove & apply trigonometric identities. Students will also build functions that model relationships between two functions or build new functions from existing functions. Students will make inferences and justify conclusions from sample surveys, experiments and observational studies.

60310 Algebra II (NCAA)

Course Information: 1 credit; grades 11 & 12

Prerequisite: Successful completion of Algebra 1 and Geometry with a “C” or better.

Description: Students will perform arithmetic operations using complex numbers and on polynomials. They will use complex numbers in polynomial identities to solve problems. Students will understand the relationship between zeros and factors of polynomials. Students will be able to rewrite rational expressions. They will understand and solve equations as a process of reasoning and be able to explain their reasoning. Students will represent and solve equations and inequalities graphically. They will analyze functions using different representations. Students will interpret functions that arise in applications. They will build functions that model relationships between two functions or build new functions from existing functions. Students will make inferences and justify conclusions from sample surveys, experiments and observational studies. Students will use the unit circle to extend the domain of trigonometric functions and prove and apply trigonometric identities.

60360 Principles of Algebra and Geometry

Course Information: 1 credit; grade 11

Prerequisite: Successful completion of Algebra 1 and Geometry

Description: Principles of Algebra and Geometry is a two-semester course that builds on the foundations of High School Algebra I and certain topics from Geometry. In addition to expanding on topics covered in High School Algebra I, topics in exponential functions, optimization and statistical data are explored. Real world application; technology, including graphing calculators; and student projects are components of this course. This course is built with rigor, innovative instructional strategies, and concentration on contextual learning that departs from procedural memorization and focuses on engaging the students in a real-world context. This course is designed with a goal of accessibility for all students. It achieves the goal through creative, research-based instruction, and a problem-based, student-centered curriculum.

70471 AP Computer Science Principles

Course Information: 1 credit; grades 11 & 12

Prerequisite: Successful completion of Geometry and AP Course Registration Form

Description: AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.

40471 Computer Science Discoveries (Intro to Computer Science)

Course Information: 1 credit; grade 10

Prerequisite: Passed 2 semesters of Algebra 1 or Geometry with a C or better and is concurrently enrolled in a math class.

Description: Computer Science Discoveries (CS Discoveries) is an introductory computer science course that empowers students to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun. The course takes a wide lens on computer science by covering topics such as programming, physical computing, HTML/CSS, and data. The course inspires students as they build their own websites, apps, games, and physical computing devices.

70081 High School Transitional Math 4 - Quantitative Literacy and Statistics

Course Information: 1 credit; grade 12

Prerequisite: Successful completion of Algebra II with a “C” or better AND teacher recommendation

Description: Math course framework designed to prepare and transition students directly into college and career pathways requiring general education college level math competencies in quantitative literacy and statistics. The competencies within each domain should include, but are not limited to: numeracy (operation sense, estimation, measurement, quantitative reasoning, basic statistics, and mathematical summaries), application based algebraic topics, and functions and modeling. Upon completion students should be able to: demonstrate proficiency and understanding in basic numeracy competencies in whole numbers, integers, fractions, and decimals, use estimation and explain/justify estimates, apply quantitative reasoning to solve problems involving quantities or rates, use mathematical summaries of data such as mean, median, and mode, use and apply algebraic reasoning as one of multiple problem solving tools, and use functions and modeling processes. Course to be delivered through authentic application, problem based instruction designed to build mathematical conceptual understanding and critical thinking skills..

60350 AP Statistics (STEM) (NCAA)

Course Information: 1 credit; grades 11 & 12

Prerequisite: Completion of Algebra II with a “C” or better

Description: This course will introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes:

1. Exploring Data; describing patterns and departures from patterns
2. Sampling and Experimentation; planning and conducting a study
3. Anticipating Patterns; exploring random phenomena using probability and simulation
4. Statistical Inference; estimating population parameters and testing hypotheses

Students who successfully complete the course and AP exam may receive credit, advanced placement or both for a one-semester college statistics course.

60060 AP Pre- Calculus (STEM) (NCAA)

Course Information: 1 credit; grades 11 & 12

Prerequisite: Successful completion of Honors Algebra II with a C or better or successful completion of Algebra II with a “B” or better and teacher recommendation

Description: This course is a study of functions and applications, including those in trigonometry. The following topics are addressed: circular functions, angles in degrees and radians, right triangle applications, graphs of trigonometric functions, identities, composition of functions, families of functions (linear, quadratic, absolute value, polynomial and radical powers, exponential, logarithmic, and rational), conic sections, probability and number theory. Graphing technology is used throughout and students will be encouraged to have their own graphing calculator.

80060 AP Calculus AB (STEM) (NCAA)

Course Information: 1 credit; grade 12

Prerequisite: Successful completion of Pre-Calculus with a “C” or better.

Description: This is an entry level course in Calculus of a single real variable. Topics covered will include limits continuity, derivatives and their applications, definite integrals, and differential equations, mathematical modeling and their applications. The content will be treated in depth and breadth. Instruction will focus on the highest levels of thinking with regard to analysis, synthesis and evaluation. Graphing calculator technology using a TI Nspire CAS is an integral part of this course, as well a lab component. Students will be prepared to take the AP Calculus AB at the completion of this course.

80471 AP Computer Science A (available 2025)

Course Information: 1 credit; grade 12

Prerequisite: Successful completion of _____

Description: _____

Fine Arts Department – Music

Course choice for each grade level

	General Music	Instrumental Music	Vocal Music
9		Freshman Band	
10		Marching/Concert Band	Mixed Chorus
11	Music History/ Appreciation	Marching/Concert Band Piano and Guitar 1	Mixed Chorus
12	Music History/ Appreciation	Marching/Concert Band Piano and Guitar 1	Mixed Chorus

Fine Arts Department – Music

40860 Music History/ Appreciation

Course Information: ½ credit (non-repeatable); grades 09, 10, 11 & 12

Prerequisite: None

Description: This non-performing course is designed for students with little to no prior musical training, exploring a variety of musical styles, genres and historical periods through listening, analysis, discussion and composition. Historically and culturally significant composers and their work will be covered, both popular- and art-music.

40870 Freshman Band

Course Information: 1 credit (non-repeatable); grade 9

Prerequisite: Middle School Band

Description: Freshman band is a continuation of Middle School Band. Freshman Band is designed to advance students skill and knowledge in music through band performance. Topics include reading standard music notation, music theory and ear training. Materials studied will include a beginning to intermediate method books, major and arpeggios, etudes, solos and works by significant composers. Participation is encouraged in all Marching/Concert Band events, including extra-curricular rehearsals and performances which include football, volleyball, and basketball games. Students will also be encouraged to participate in the state organizational, solo, and ensemble events.

50850 Marching/ Concert Band

Course Information: 1 credit (repeatable); grades 10, 11 & 12

Prerequisite: Beginning Band and/or written recommendation of instructor via audition

Description: Students in Marching Band are required to participate in a band camp prior to the opening of the fall semester. Attendance is required at all Marching/Concert Band events, including extra-curricular rehearsals and performances which include football, volleyball, and basketball games. This course meets the physical education requirement. Concert Band is a continuation of Beginning Band and Freshman Band. Concert Band is designed to advance students skill and knowledge in music through band performance. Topics include reading standard music notation, music theory and ear training. Materials studied will include an intermediate to advanced method books, major and minor scales and arpeggios, etudes, solos and works by significant composers. Participation is encouraged in all Marching/Concert Band events, including extra-curricular rehearsals and performances which include football, volleyball, and basketball games. Students will also be encouraged to participate in the state organizational, solo, and ensemble events.

50830 Piano and Guitar I

Course Information: 1 credit (non-repeatable); grades 11 &12

Prerequisite: None

Description: Piano and Guitar I is designed to introduce students to music through piano or guitar performance. Topics include reading standard music notation, music theory and ear training. Materials studied will include a beginning piano method book, major scales and arpeggios, and works by significant composers. Guitar students will have the choice between guitar and bass guitar. Participation in Marching/Concert Band on keyboard percussion instruments is encouraged for piano students including all extra-curricular rehearsals and performances. Guitar students are encouraged to participate in jazz ensembles or swing choir. Students will also be encouraged to participate in the state organizational, solo, and ensemble events and perform in at least one solo recital per semester.

50800 Mixed Chorus (Concert Choir)

Course Information: 1 credit; grades 10, 11 & 12

Prerequisite: Treble or Bass Chorus and/or recommendation of instructor via audition

Description: A full year course designed to teach music through performing a wide variety of significant vocal musical works and styles, both sacred and secular. Instruction will focus on continued development of vocal tone, intonation, diction, ability to read music, sight-singing and musicianship. Students are required to participate in several performances outside the school day; prior notice and a schedule will be sent to parents/guardians. Students will also be encouraged to participate in state organizational, solo and ensemble events.

Physical Education/Driver's Ed/Health

Course choice for each grade level

9	<ul style="list-style-type: none">• Freshman Physical Education
10	<ul style="list-style-type: none">• Physical Education• Driver's Education (age requirement)• Basic Health
11	<ul style="list-style-type: none">• Physical Education• Driver's Safety• Field Driving and Simulation – (Behind The Wheel)
12	<ul style="list-style-type: none">• Physical Education• Fitness/Conditioning Activities• Driver's Safety• Field Driving and Simulation – (BTW)

Physical Education/Driver's Ed/Health/AFJROTC

40600 Freshman Physical Education

Course Information: ½ credit; grade 9

Prerequisite: None

Description: This course provides a well planned program designed to promote students establishing a commitment to a life style based upon health, fitness, and life-long wellness. Two units are required at this level.

50630 Basic Health

Course Information: ½ credit; grade 10

Prerequisite: None

Description: The required course covers basic health, stress management, family life, substance abuse and prevention, sexually transmitted diseases and HIV/AIDS, and personal safety and public health.

60620 Physical Education

Course Information: ½ credit; grades 10, 11 & 12

Prerequisite: None

Description: This course provides a well- planned program designed to promote students establishing a commitment to a life style based upon health, fitness, and life-long wellness.

60661 Fitness/Conditioning Activities

Course Information: ½credit; grade 12

Prerequisite: None

Description: Fitness/Conditioning Activities courses emphasize conditioning activities that help develop muscular strength, flexibility, and cardiovascular fitness.

60640 Driver's Education

Course Information: ½ credit; grades 11 & 12

Prerequisite: Receive a passing grade in at least 8 courses during the previous 2 semesters prior to enrolling in the course; 15 years old

Description: This course provides students with the knowledge and experience to become safe drivers on America's roadways. Topics in these courses include legal obligations and responsibility, rules of the road and traffic procedures, safe driving strategies and practices, and the physical and mental factors affecting the driver's capability (including alcohol and other drugs).

60650 Field Driving and Simulation – (BTW)

Course Information: 0 credit; grades 11 & 12

Prerequisite: Learning Permit and Instructor Consent

Description: Students receive driving behind the wheel. A student may see the instructor or counselor to get in this class. A fee maybe assessed to this course. The class is offered before school, after school and on Saturdays.

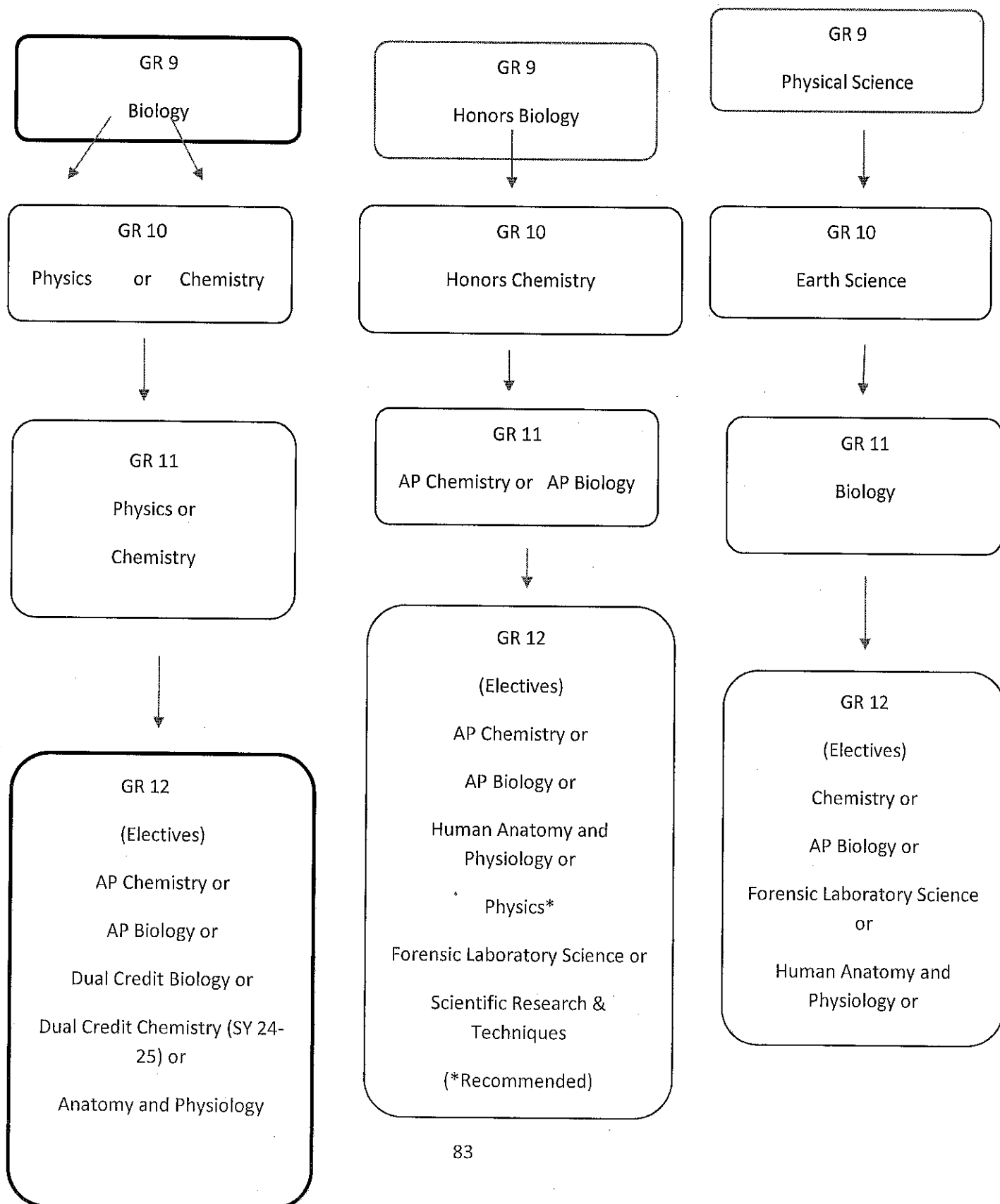
Science Department

The curriculum for science in all grade levels will incorporate the Next Generation Science Standards.

9	<ul style="list-style-type: none">• Biology (NCAA)• Biology Honors (NCAA)• Physical Science (NCAA)
10	<ul style="list-style-type: none">• Honors Chemistry (NCAA)• Chemistry (NCAA)• Earth Science (NCAA)• Physics (NCAA)
11	<ul style="list-style-type: none">• Biology (NCAA)• Chemistry (NCAA)• Physical Science (NCAA)• Physics (NCAA)• AP Biology (NCAA)• AP Chemistry (NCAA)
12	<ul style="list-style-type: none">• AP Biology (NCAA)• AP Chemistry• Forensic Laboratory Science (NCAA)• Human Anatomy & Physiology Honors(NCAA)• Scientific Research and Techniques (NCAA)• Physics (NCAA)• Principles of Biology I – SWIC (Dual Credit) (NCAA)• Chemistry 105 – SWIC (Dual Credit) (NCAA) <p><i>CRC – CORE SCIENCE COURSES AS REQUIRED</i></p>

ESLSD Science Course Pathways

Effective November 2022



Science Department

50411 Physical Science (NCAA)

Course Information: 1 credit; grades 9 & 11

Prerequisite: None

Description: Physical science is a yearlong course designed to continue student investigations of physical science concepts that began in grades K-8. Topics include but are not limited to science inquiry, matter and energy, chemical reactions, Newton's Laws, and waves and electromagnetic radiation. Student learning is extended through laboratory investigations.

50400 Honors Chemistry (NCAA)

Course Information: 1 credit; grade 10

Prerequisite: Honors Biology grade of "B" or better: Geometry

Description: Honors Chemistry is a yearlong course that covers the same topics in general chemistry with a more in-depth study of the principles and concepts explored. Students in this course will use mathematics to support their understanding of chemistry concepts. Topics include measurement and data analysis, structure and properties of matter, bonding and interactions, and chemical reactions and quantities. Student learning is extended through laboratory investigations. This course provides a foundation for students interested in advanced course work in AP Chemistry or Dual Credit Chemistry.

60410 Earth Science (NCAA)

Course Information: 1 credit; grade 10 & 11

Prerequisite: None

Description: Earth Science is a yearlong course developing student knowledge of Earth and space systems. Topics include Earth systems, space systems, history of Earth, weather and climate, and human sustainability. Student learning is extended through virtual and /or traditional laboratory experiences.

40401 Honors Biology (NCAA)

Course Information: 1 credit, grade 09

Prerequisite: 8th Grade Science-Grade “A”, 8th Grade Pre-AP Science Grade “B” & Teacher Recommendation

Description: Honors Biology is a yearlong course that covers all of the topics of the high school biology course with more depth to provide a deeper understanding of life science concepts. Topics include matter and energy, ecosystems, heredity and traits, natural selection, and evolution. Laboratory experiences are extended through virtual and traditional labs. This course provides a foundation for students interested in advanced course work in AP or Dual Credit Biology.

40410 Biology (NCAA)

Course Information: 1 credit; grades 9 & 11

Prerequisite: N/A

Description: Students in Biology study a variety of topics that include: Science and Engineering practices, ecology and ecosystems, internal conditions of living systems, inheritance and variation of traits (genetics), growth and development of organisms and natural selection and evolution. Laboratory experiences might include virtual and traditional laboratory experiences.

70441 AP Biology (NCAA)

Course Information: 1 credit; grades 11 & 12

Prerequisite: Biology-Grade B, or Honors Biology-Grade “C”, or Honors Chemistry-Grade “C”, or Chemistry- Grade “B”

Description: AP Biology is an introductory college-level biology course. It is a yearlong course covering course work equivalent to two college semesters. Topics of study include chemistry of life, cell structure and function, cellular energetic, cell environment, cell cycle, gene expression & regulation, natural selection and heredity. Student learning opportunities include required college level laboratory experiences and preparation for the College Board May AP Biology Exam.

70461 Scientific Research and Techniques (NCAA)

Course Information: 1 credit, grade 12

Prerequisite: Passing Grade of C or better in Biology and/or Chemistry

Description: Scientific Research and Design students conceive of, design, and complete a project using scientific inquiry and experimentation methodologies. Emphasis is typically placed on safety issues, research protocols, controlling or manipulating variables, data analysis, and a coherent display of the project and its outcome(s).

70400 Human Anatomy and Physiology Honors (NCAA)

Course Information: 1 credit; grade 12

Prerequisite: Biology and Chemistry; grade of "B", Honors Biology and/or Honors Chemistry-grade "C"

Description: Human Anatomy & Physiology is a yearlong course designed to examine the structure and function of the human body. Topics covered include anatomical terminology, cells and tissues, and functional systems to include skeletal, muscular, circulatory, respiratory, digestive, integumentary, and respiratory and nervous systems of the human body. Student learning is extended through virtual and traditional laboratory experience. This course is recommended for students interested in pursuing a career in the medical field or advanced studies in the life sciences.

70421 Forensic Laboratory Science (NCAA)

Course Information: 1 credit, grade 12

Prerequisite: Grade "C" in Biology, Physical Science and/or Chemistry

Description: Forensics is a yearlong elective course offered to seniors. Forensic Laboratory Science course involves the application of biological, chemical, and physical science principles to data and physical evidence related to evidence collection and analysis. The course focuses on the application of scientific knowledge and scientific principles to collect, preserve, and analyze evidence in a laboratory setting. Topics may include but are not limited to entomology, forensic anthropology, serology, and fingerprinting.

80441 Principles Biology I – SWIC (Dual Credit) (NCAA)

Course Information: 1 high school credit; grades 11 & 12

Prerequisite: 2.5 Overall GPA and Grade “B” Biology or Honors Biology Grade “C”,
Permission Form for Dual Credit Required

Description: Biology 101 is a college level laboratory based science course. Topics include origin and phylogeny of life, biodiversity, comparative physiology, and ecology. This course is intended for students who want to major in science or explore a career path for the health sciences. All assignments and laboratory experiences are equivalent to those at the college level. Students can attain college credit upon request and successful completion of all requirements.

60401 Physics (NCAA)

Course Information: 1 credit, grades 10, 11 & 12

Prerequisites: “C” or better HS Algebra

Description: This is an introductory course in physics. Science phenomena are explored conceptually and mathematically. Topics covered include the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy, sound light, magnetic and electric phenomena. This course is recommended for college bound students and students interested in careers in the health sciences/medical field.

50481 Chemistry (NCAA)

Course Information: 1 credit, grade 10, 11, & 12

Prerequisites: “B” in Biology or “C” in Honors Biology and/or “C” in HS Physical Science

Description: Chemistry topics of study include the composition, properties, and reactions of substances, the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas, equations, and nuclear reactions are also studied.

70451 AP Chemistry (NCAA)

Course Information: 1 credit, grades 11th & 12th

Prerequisites: Chemistry-Grade “B, Honors Chemistry-Grade “C and Biology Grade “B”
or Honors Biology Grade “C”,

Description: AP Chemistry is an introductory college level course. Adhering to the curricula recommended by the College Board, AP Chemistry is a course designed to parallel college level chemistry. Topics covered may include atomic structure and properties, molecular and ionic compounds and properties, chemical reactions (stoichiometry), thermodynamics and kinetics. Hands on laboratory experiences are required and equivalent to those of typical college courses.

80481 Chemistry 105 – SWIC – (Dual Credit)

Course Information: 1 H.S. credit, grades 11th & 12th

Prerequisites: 2.5 Overall GPA and Chemistry-Grade “B, Honors Chemistry-Grade “C and Biology Grade “B” or Honors Biology Grade “C”,

Description: Chemistry 101 is a college level laboratory based science course. Topics include Basic principles of inorganic chemistry with emphasis on atomic structure, bonding, stoichiometry, chemical reactions, thermochemistry, gas laws, periodicity, states of matter, and solutions. For the chemistry major, other science major, engineering, pre-med, pharmacy and other pre-professional fields. This course is intended for students who want to major in science or explore a career path for the health sciences. All assignments and laboratory experiences are equivalent to those at the college level. Students can attain college credit upon request and successful completion of all requirements.
