

McIntosh High School Pathways/Electives 2020-2021

DEPT	PATHWAY	FALL SEMESTER	SPRING SEMESTER	GRADE	PRE-REQ OR AUDITION
CAREER AND TECHNICAL EDUCATION (CTE)	Animation & Digital Media	Introduction to Digital Media A (48.4210001)	Introduction to Digital Media B (48.4210002)	9-10	No
		Principles and Concepts of Animation A (48.4220001)	Principles and Concepts of Animation B (48.4220002)	10-12	Yes (Intro to Dig Media)
		Advanced Animation, Game and App Design (48.4230001)	Advanced Animation, Game and App Design (48.4230002)	11-12	Yes (Principles & Concepts of Animation)
	Audio & Video Technology and Film	Audio/Video Tech & Film A (10.5181001)	Audio/Video Tech & Film B (10.5181002)	9-10	No
		Audio/Video Tech & Film II A (10.5191001)	Audio/Video Tech & Film II B (10.5191002)	10-12	Yes (AVTF I)
		Audio/Video Tech & Film III A (10.5201001)	Audio/Video Tech & Film III B (10.5201002)	11-12	Yes (AVTF II)
	Computer Science	Introduction to Digital Technology A (11.4150001)	Introduction to Digital Technology B (11.4150002)	9-10	No
		AP Comp Science Principles A (course of rigor) (11.0190001)	AP Comp Science Principles B (course of rigor) (11.0190002)	10-12	Application Required
		AP Computer Science A (course of rigor) (11.0160001)	AP Computer Science B (course of rigor) (11.0160002)	11-12	Application Required
		*Embedded Computing/Web Development (3rd year DE course w/ Clayton State)		11-12	Application Required
	Engineering & Technology	Foundations of Engineering & Technology A (21.4250001)	Foundations of Engineering & Technology B (21.4250002)	9-10	No
		Engineering Concepts A (21.4710001)	Engineering Concepts B (21.4710002)	10-12	Yes (Foundations of Engineering & Tech)
		Engineering Applications A (21.4720001)	Engineering Applications B (21.4720002)	11-12	Yes (Engineering Concepts)
	Financial Services	Introduction to Business & Technology A (07.4413001)	Introduction to Business & Technology B (07.4413002)	9-10	No
		Financial Literacy A (07.4260001)	Financial Literacy B (07.4260002)	10-12	Yes (Intro to Bus & Tech)
		Banking, Investing, & Insurance A (07.4310001)	Banking, Investing, & Insurance B (07.4310002)	11-12	Yes (Financial Literacy)
	Food & Nutrition	Nutrition & Wellness A (20.4161001)	Nutrition & Wellness B (20.4161002)	9-10	No
		Food for Life A (20.4140001)	Food for Life B (20.4140002)	10-12	Yes (Nutrition & Wellness)
		Food Science A (20.4181001)	Food Science B (20.4181002)	11-12	Yes (Food for Life)
	Graphic Design	Introduction to Graphic Design A (48.5610001)	Introduction to Graphic Design B (48.5610002)	9-10	No
		Graphic Design & Production A (48.5620001)	Graphic Design & Production B (48.5620002)	10-12	Yes (Intro to Graphic Des)
		Advanced Graphic Design A (48.5280001)	Advanced Graphic Design B (48.5280002)	11-12	Yes (Graphic Des & Prod)
	Marketing Management	Marketing Principles A (08.4740001)	Marketing Principles B (08.4740002)	9-10	No
		Marketing & Entrepreneurship A (08.4410001)	Marketing & Entrepreneurship B (08.4410002)	10-12	Yes (Marketing Principles)
		Marketing Management A (08.4420001)	Marketing Management B (08.4420002)	11-12	Yes (Marketing & Entrepreneurship)
	Therapeutic Services *Course is a 2-period block at the COI	Introduction to Healthcare Science A (25.5210001)	Introduction to Healthcare Science B (25.5210002)	9-10	No
		Essentials of Healthcare A (25.4400001)	Essentials of Healthcare B (25.4400002)	10-12	Yes (Intro to Healthcare)
		*Allied Health, Patient Care(CNA), Emer Med Responder, Emer Med Tech, or Phlebotomy		11-12	Yes (Essent. of Healthcare) Application Required
	ENGLISH	Debate IA (23.0460001)	Debate IB (23.0460002)	9-12	No
		Debate IIA (23.0470001)	Debate IIB (23.0470002)	10-12	Yes (Debate I)
		Journalism- Newspaper (23.0320001)	Journalism- Newspaper (23.0320002)	9-12	Application Required
		Journalism- Yearbook (23.0320011)	Journalism- Yearbook (23.0320012)	9-12	Application Required
		Mythology A (23.0210011)	Mythology B (23.0210012)	10-12	Yes (9th Lit/Comp)
		AP Research A (course of rigor) (23.0370001)	AP Research B (course of rigor) (23.0370002)	11-12	Application Required
		Dramatic Wrt: Film/TV/Theatre A (52.0920001)	Dramatic Wrt: Film/TV/Theatre B (52.0920002)	12	Application Required
	HEALTH/PE	Body Sculpting A (36.0560011)	Body Sculpting B (36.0560012)	10-12	Yes (Personal Fitness)
Introduction to Lifetime Sports A (36.0220011)		Introduction to Lifetime Sports B (36.0220012)	10-12	Yes (Personal Fitness)	
Lifetime Sports A (36.0320011)		Lifetime Sports B (36.0320012)	10-12	Yes (Intro Lifetime Sports)	
Int Team Sports A (36.0310011)		Int Team Sports B (36.0310012)	10-12	Yes (Personal Fitness)	
Weight Training A (36.0540011)		Weight Training B (36.0540012)	10-12	Yes (Personal Fitness)	
Advanced Weight Training A (36.0640011)		Advanced Weight Training B (36.0640012)	11-12	Yes (Weight Training)	
FINE ARTS	Music- Band	Intermediate Band A (53.0371011)	Intermediate Band B (53.0371012)	9-12	Yes (teacher determines placement)
		Advanced Band A (53.0381011)	Advanced Band B (53.0381012)		
		Mastery Band A (53.0391011)	Mastery Band B (53.0391012)		
		Int Instrument Ensemble A (53.0751001)	Int Instrument Ensemble B (53.0751002)		
		Jazz Band (53.0651011)	Jazz Band (53.0651012)		
	Song Writing A (53.0780001)	Song Writing B (53.0780002)	9-12	No	
	Music- Chorus	Beginning Women's Chorus A (54.0241011)	Beginning Women's Chorus B (54.0241012)	9-12	No
		Intermediate Men's Chorus A (54.0281011)	Intermediate Men's Chorus B (54.0281012)		
		Intermediate Women's Chorus A (54.0251011)	Intermediate Women's Chorus B (54.0251012)		
	Music-Orchestra	Advanced Women's Chorus A (54.0261011)	Advanced Women's Chorus B (54.0261012)	9-12	Yes (teacher determines placement)
Advanced Mixed Chorus A (54.0231011)		Advanced Mixed Chorus B (54.0231012)			
Beginning Orchestra A (53.0561011)		Beginning Orchestra B (53.0561012)			
Intermediate Orchestra A (53.0571011)		Intermediate Orchestra B (53.0571012)			
	Advanced Orchestra A (53.0581011)	Advanced Orchestra B (53.0581012)	9-12	Yes (teacher determines placement)	
	Beginning Guitar A (53.0841011)	Beginning Guitar B (53.0841012)			
	AP Music Theory A (course of rigor) (53.0230001)	AP Music Theory B (course of rigor) (53.0230002)			10-12

Theater Arts	Drama I A (52.0210001) Technical Theater IA (52.0410011)	Drama I B (52.0210002) Technical Theater IB (52.0410012)	9-12	No	
	Drama II A (52.0220001) Drama III A (52.0230001) Advanced Drama A (52.0510001)	Drama II B (52.0220002) Drama III B (52.0230002) Advanced Drama B (52.0510002)	9-12	Yes (teacher determines placement)	
	Visual Arts (50.0211011)	Draw I (50.0311012)	9-12	No	
Visual Arts	Drawing & Painting A (50.0313011)	Drawing & Painting B (50.0313012)	10-12	Yes (Visual Arts/Draw I)	
	AP Studio Art A (courses of rigor) 2D Design (50.0813001) Drawing (50.0811001)	AP Studio Art B (courses of rigor) 2D Design (50.0813002) Drawing (50.0811002)	11-12	Application Required	
	Chemistry A (course of rigor) (40.0510001)	Chemistry B (course of rigor) (40.0510002)	10-12	Yes (Biology)	
SCIENCE	Environmental Science A (26.0611001)	Environmental Science B (26.0611002)	11-12	Yes (Biology)	
	Forensic Science A (course of rigor) (40.0930001)	Forensic Science B (course of rigor) (40.0930002)	11-12	Yes (Bio; Chem is strongly recommended)	
	Human Anatomy & Physiology A (course of rigor) (26.0730001)	Human Anatomy & Physiology B (course of rigor) (26.0730002)	11-12	Yes (Bio; Chem is strongly recommended)	
	Microbiology A (course of rigor) (26.0510001)	Microbiology B (course of rigor) (26.0510002)	11-12	Yes (Bio; Chem is strongly recommended)	
	AP Biology A (course of rigor) (26.0140001)	AP Biology B (course of rigor) (26.0140002)	11-12	Application Required	
	AP Chemistry A (course of rigor) (40.0530001)	AP Chemistry B (course of rigor) (40.0530002)	11-12	Application Required	
	AP Environmental Science A (course of rigor) (26.0620001)	AP Environmental Science B (course of rigor) (26.0620002)	11-12	Application Required	
	AP Seminar A (course of rigor) (35.0900001)	AP Seminar B (course of rigor) (35.0900002)	11-12	Application Required	
	AP Physics 2 A (course of rigor) (40.0832001)	AP Physics 2 B (course of rigor) (40.0832002)	12	Application Required	
	AP Physics C: Mechanics A (course of rigor) (40.0841001)	AP Physics C: Mechanics B (course of rigor) (40.0841002)	12	Application Required	
	Oceanography A (40.0710001)	Oceanography B (40.0710002)	12	Yes (Biology)	
	SOCIAL STUDIES	AP Human Geography A (course of rigor) (45.0770001)	AP Human Geography B (course of rigor) (45.0770002)	9-10	Application Required
		Individual and the Law A (45.0560001)	Individual and the Law B (45.0560002)	9-12	No
Ethics and the Law A (45.0580001)		Ethics and the Law B (45.0580002)	10-12	No (Individual & Law class encouraged)	
AP Art History A (course of rigor) (50.0921001)		AP Art History B (course of rigor) (50.0921002)	10-12	Application Required	
Psychology (45.0150012)		Sociology (45.0310012)	11-12	No	
U.S. History in Film A (45.0812001)		U.S. History in Film B (45.0812002)	11-12	Yes; (US History or concurrent w/ USHistory)	
AP European History A (course of rigor) (45.0840001)		AP European History B (course of rigor) (45.0840002)	11-12	Application Required	
AP Psychology A (course of rigor) (45.0160001)		AP Psychology B (course of rigor) (45.0160002)	11-12	Application Required	
Current Issues A (45.0120001)		Current Issues B (45.0120002)	12	No	
WORLD LANGUAGES		French	French IA 60.0110001	French IB 60.0110002	9-12
	French IIA (course of rigor) (60.0120001)		French IIB (course of rigor) (60.0120002)	9-12	Yes (French I)
	French IIIA (course of rigor) (60.0130001)		French IIIB (course of rigor) (60.0130002)	10-12	Yes (French II)
	French IVA (course of rigor) (60.0140001)		French IVB (course of rigor) (60.0140002)	11-12	Yes (French III)
	French VA (course of rigor) (60.0150001)		French VB (course of rigor) (60.0150002)	12	Yes (French IV)
	AP French A (course of rigor) (60.0170001)		AP French B (course of rigor) (60.0170002)	12	Yes (French IV)
	German	German IA (61.0110001)	German IB (61.0110002)	9-12	No
		German IIA (course of rigor) (61.0120001)	German IIB (course of rigor) (61.0120002)	10-12	Yes (German I)
		German IIIA (course of rigor) (61.0130001)	German IIIB (course of rigor) (61.0130002)	11-12	Yes (German II)
		German IVA (course of rigor) (61.0140001)	German IVB (course of rigor) (61.0140002)	12	Yes (German III)
	Latin	Latin IA (61.0410001)	Latin IB (61.0410002)	9-12	No
		Latin IIA (course of rigor) (61.0420001)	Latin IIB (course of rigor) (61.0420002)	10-12	Yes (Latin I)
		Latin IIIA (course of rigor) (61.0430001)	Latin IIIB (course of rigor) (61.0430002)	11-12	Yes (Latin II)
		Latin IVA (course of rigor) (61.0440001)	Latin IVB (course of rigor) (61.0440002)	12	Yes (Latin III)
	Spanish	Spanish IA (60.0710001)	Spanish IB (60.0710002)	9-12	No
		Spanish IIA (course of rigor) (60.0720001)	Spanish IIB (course of rigor) (60.0720002)	9-12	Yes (Spanish I)
		Spanish IIIA (course of rigor) (60.0730001)	Spanish IIIB (course of rigor) (60.0730002)	10-12	Yes (Spanish II)
Spanish IVA (course of rigor) (60.0740001)		Spanish IVB (course of rigor) (60.0740002)	11-12	Yes (Spanish III)	
AP Spanish A (course of rigor) (60.0770001)		AP Spanish B (course of rigor) (60.0770002)	12	Yes (Spanish IV)	
OTHER	SAT Preparation A (35.0660001)	SAT Preparation B (35.0660002)	10-12	Yes (9th Lit/Comp)	

English

Debate I

This course is a detailed study of forensic speaking including extemporaneous speaking, oration, and interpretation of literature, and debate. There is an emphasis on understanding various forensic speaking formats and the importance of applying reasoning, research and delivery skills. Critical thinking is a major component of this course.

Debate II

This course is an extension of Speech/Forensic I. The course provides a review of the skills covered in the first course. The emphasis for this course is classical and contemporary theory. The students will understand the philosophical basis of argumentative theory.

Journalism - Newspaper

This course focuses on journalistic writing through analysis of newspapers, yearbooks, literary magazines, and broadcast journalism publications. A concentration on the following components of journalistic writing is critical: influence, purpose, structure, and diction. Reading, writing, and critical thinking are key components as students explore the power and influence of journalism. Students will participate in news gathering, the study of ethics, and the aspects of copywriting, editing, and revising and will study the ethics of journalism. If a publication is produced, the students will learn the process of publishing.

Journalism - Yearbook

This course focuses on journalistic writing through analysis of newspapers, yearbooks, literary magazines, and broadcast journalism publications. A concentration on the following components of journalistic writing is critical: influence, purpose, structure, and diction. Reading, writing, and critical thinking are key components as students explore the power and influence of journalism. Students will participate in news gathering, the study of ethics, and the aspects of copywriting, editing, and revising and will study the ethics of journalism. If a publication is produced, the students will learn the process of publishing.

Mythology

This course introduces the importance of myths and tales of classical mythology, focusing on a comparative study of plot, characters, themes, and figurative devices. The course emphasizes the following: critical and analytical skills, vocabulary development, a study of the influences of Greek, Roman, and Norse word origins on the English language, and composition. The study of the relationship between people and their societies is a major emphasis, along with the impact of mythology on the literary world. Writing exploration through media literacy and viewing will be a focus in this course.

AP Research

Conforms to the College Board syllabus for the Advanced Placement Research Examination. AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

Dramatic Writing

Applies skills to culminate in creating and developing dramatic writing for theatrical media with special emphasis on film and television. Includes development of "writerly stance" by reading, viewing, and analyzing texts and visual media from a writer's point of view, with focus on understanding the construction process and including the application of conventions of standard English grammar and usage. Note: This course meets fourth English Language Arts core requirement.

Health and Personal Fitness

Body Sculpting

Provides methods to redefine body shape through specific exercises. Covers conditioning exercises and proper nutrition to improve muscle tone, muscle definition, posture, bodily proportions, overall condition of the body and increase energy levels. Based on the American College of Sports Medicine guidelines for fitness and conditioning programs.

Introduction to Lifetime Sports

Introduces fundamental skills, strategies, and rules associated with lifetime sports such as bowling, golf, tennis, racquetball, baseball, badminton, roller skating, and skiing.

Lifetime Sports

Enhances skills, strategies, and rules associated with lifetime sports such as bowling, golf, tennis, racquetball, baseball, badminton, roller skating, and skiing.

Team Sports

Enhances skills and strategies in team sports such as basketball, volleyball, soccer, softball, baseball, field hockey, lacrosse, team handball and flag football.

Weight Training

Introduces weight training; emphasizes strength development training and proper lifting techniques. Includes fitness concepts for developing healthy, lifetime habits.

Advanced Weight Training

Increases strength and cardiovascular fitness through an individualized weight training program. Emphasizes self-management and adherence strategies.

Fine Arts

Intermediate Band

Provides opportunities for intermediate-level performers to increase performance skills and precision on a wind or percussion instrument. Includes performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Stresses individual progress and learning and group experiences; strengthens reading skills.

Advanced Band

Provides opportunities for advanced-level performers to increase, develop and refine performance skills and precision on a wind or percussion instrument. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music at advanced levels of understanding. Organizes objectives for self-paced progress through all four levels. Stresses individual progress and learning strategies and ensemble experiences.

Mastery Band

Provides opportunities for advanced-level performers to increase, develop and refine performance skills and precision on a wind or percussion instrument. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music at advanced levels of understanding. Organizes objectives for self-paced progress through all four levels. Stresses individual progress and learning strategies and ensemble experiences.

Instrumental Ensemble

Offers intermediate-level performers an alternative ensemble experience to large band and orchestra. Emphasizes the performance style and literature of the instrumental chamber group medium. Includes brass, woodwind, percussion, and string ensembles. Covers performance and production, analysis and theoretical studies, creative aspects of music, historical and cultural influences and music appreciation.

Jazz Band

Offers opportunities for intermediate-level performers to increase performance skills and knowledge on instruments or voice in a jazz idiom. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music (especially improvisation and composition) and appreciation of music. Organizes objectives for self-paced progress through all four levels. Stresses individual progress and group experiences. Emphasizes jazz as an indigenous American art form and a major component of our cultural heritage.

Song Writing

This course focuses on an effective process for writing songs. Students will learn how to express their ideas through lyrics and music. They will learn techniques for writing lyrics and setting them to music. Final songwriting projects will be performed.

Beginning Women's Chorus

Provides opportunities for young women to develop performance skills and knowledge in all-female chorus singing. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Stresses self-paced progress and group experiences.

Intermediate Men's Chorus

Provides opportunities for intermediate-level male performers to increase performance skills and knowledge in all-male choral singing. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Organizes objectives for self-paced progress through all four levels. Stresses individual progress and group experiences.

Intermediate Women's Chorus

Provides opportunities for intermediate-level female performers to increase performance skills and knowledge in all-female choral singing. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Organizes objectives for self-paced progress through all four levels. Stresses individual progress and group experiences.

Advanced Women's Chorus

Provides opportunities for advanced-level female performers to increase performance skills and knowledge in all-female choral singing. Covers performance and production, analysis

and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Stresses self-paced progress and group experiences.

Advanced Mixed Chorus

Provides advanced-level performers opportunities to increase performance skills and knowledge in mixed choral singing. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Organizes objectives for self-paced progress through all four levels. Stresses individual progress and group experiences.

Beginning Orchestra

Provides opportunities to develop performance skills and precision on orchestral stringed instruments. Emphasizes performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Organizes objectives for self-paced progress through all four levels. Stresses individual progress and ensemble experiences.

Intermediate Orchestra

Provides opportunities for intermediate-level performers to increase performance skills and precision on orchestral stringed instruments. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Organizes objectives for self-paced progress through all four levels. Stresses individual progress and group experiences.

Advanced Orchestra

Provides opportunities for advanced-level performers to increase performance skills and precision on orchestral stringed instruments. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Organizes objectives for self-paced progress through all four levels. Stresses individual progress and group experiences.

Beginning Guitar

Introduces basic guitar techniques. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Provides an individualized setting.

AP Music Theory

Conforms to College Board topics for the Advanced Placement Music Theory Examination. Covers terminology and notational skills, writing skills, visual analysis and aural skills and advanced levels of understanding.

Drama I

Serves as prerequisite for other theater/drama courses. Develops and applies performance skills through basic vocal, physical and emotional exercises; includes improvisation and scene study and related technical art forms.

Technical Theater

Introduces technical considerations of play production; covers properties, lighting and settings, program, box office, marketing, management, make-up and costumes.

Drama II

Enhances level-one skills by producing and studying children's theater in depth with performance opportunities.

Drama III

Enhances level-two skills by producing and studying literature as related to theater. Provides opportunities for performance with focus on language arts classes.

Advanced Drama

Introduces acting and theater as disciplined art forms; covers methods to observe and understand human behavior and to use those observations to create a character. Includes basic techniques of stage movement and use of physical expression for communication. Enhances vocal techniques and specific patterns for better verbal communication.

Visual Arts/Comp I

Introduces art history, art criticism, aesthetic judgment and studio production. Emphasizes the ability to understand and use elements and principles of design through a variety of media, processes and visual resources. Explores master artworks for historical and cultural significance.

Drawing I

Explores a variety of drawing techniques and media; emphasizes developing basic drawing skills and critical analysis skills for responding to master drawings. Examines solutions to drawing problems through student drawings and those of other artists. Covers Western and non-Western cultures.

Drawing and Painting

Introduces drawing and painting techniques and a variety of drawing and painting media. Stresses critical analysis of master paintings and drawings of different styles and historical periods; emphasizes problem-solving techniques to achieve desired results in personal work.

AP 2D Design

Conforms to College Board topics for the Advanced Placement Studio Art Portfolio Examination. Requires submission of original works and slides to be evaluated on quality of work. Provides experiences using different drawing media and approaches; designed for students interested in the practical experiences of art. A sketchbook will be required from all students as a reinforcement of their class work. Students are expected to complete a considerable amount of work outside of class.

AP Drawing

Conforms to College Board topics for the Advanced Placement Studio Art Drawing Portfolio Examination. Requires submission of original works and slides to be evaluated on quality. Provides experiences using different drawing media and approaches; designed for students interested in the practical experiences of art.

Science

Chemistry

This course is designed to continue student investigations of the physical sciences that began in grades K-8 and provide students the necessary skills to be proficient in chemistry. The curriculum includes more abstract concepts such as the structure of atoms, structure and properties of matter, characterization of the properties that describe solutions, the nature of acids and bases, and the conservation and interaction of energy and matter. Students investigate chemistry concepts through experience in laboratories and field work using the processes of inquiry.

Environmental Science

This course is designed to extend student investigations that began in grades K-8. This curriculum is extensively performance, lab and field based. It integrates the study of many components of our environment, including the human impact on our planet. Instruction will focus on student data collection and analysis. Major concepts include the flow of energy and cycling of matter, interconnection of all life, stability and change in an ecosystem, conservation and resource allocation, and evaluation of human activities and technology. Chemistry, physics, mathematical, and technological concepts will be integrated throughout the course.

Forensic Science

Students will learn the scientific protocols for analyzing a crime scene, how to use chemical and physical separation methods to isolate and identify materials, how to analyze biological evidence and the criminal use of tools, including impressions from firearms, tool marks, arson, and explosive evidence.

Human Anatomy and Physiology

This course is designed to continue student investigations that began in high school biology. The curriculum is extensively performance and laboratory based. It integrates the study of the structures and functions of the human body, however rather than focusing on distinct anatomical and physiological systems (respiratory, nervous, etc.) instruction should focus on the essential requirements for life. Areas of study include organization of the body; protection, support and movement; providing internal coordination and regulation; processing and transporting; and reproduction, growth and development. Chemistry will be integrated throughout anatomy and not necessarily taught as a standalone unit. Careers related to medicine, research, health-care, modern medical technology and case studies concerning diseases, disorders and ailments (i.e. real-life applications) are emphasized throughout the curriculum.

Microbiology

This curriculum is extensively performance and laboratory based. It integrates the study of microbial physiology, ecology, and genetics with instruction focusing on the impact microorganisms have on health, agriculture, biotechnology and the environment. Areas of study include classification of microorganisms; cellular structure and function; metabolic diversity; microbial genetics; control of microbial growth; microbial ecology, biotechnology and applied microbiology; and host-microbe interactions. Careers related to medicine, health-care, research, food science and biotechnology should be emphasized throughout the curriculum. Real-life applications should be emphasized through case studies concerning diseases; epidemiology; food preparation and safety; and use of microbes in industry, agriculture, biotechnology and the environment.

AP Biology

This course is designed to be the equivalent of a two semester college introductory biology course usually taken by biology majors during their first year. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The topics covered in the course are molecules and cells, heredity and evolution, and organisms and populations.

AP Chemistry

This course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Students should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. AP chemistry students should study topics related to the structure and states of matter (atomic

theory, atomic structure, chemical bonding, nuclear chemistry, gases laws, kinetic molecular theory, liquids and solids and solutions), chemical reactions (reaction types, stoichiometry, equilibrium, kinetics, and thermodynamics), and descriptive chemistry (chemical reactivity, products of chemical reactions, relationships in the periodic table, and organic chemistry). To develop the requisite intellectual and laboratory skills, AP Chemistry students need adequate classroom and laboratory time.

AP Environmental Science

This course is designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The following themes provide a foundation for the structure of the course: 1) Science is a process, 2) Energy conversions underlie all ecological processes, 3) The Earth itself is one interconnected system, 4) Humans alter natural systems, 5) Environmental problems have a cultural and social context, and 6) Human survival depends on developing practices that will achieve sustainable systems.

AP Seminar

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

AP Physics 2

This course includes topics in both classical and modern physics. Knowledge of algebra and basic trigonometry is required for the course; the basic ideas of calculus may be introduced in connection with physical concepts, such as acceleration and work. Understanding of the basic principles involved and the ability to apply these principles in the solution of problems should be one of the major goals of the course. Students taken this course should cover the following five content areas: Newtonian mechanics, fluid mechanics and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. The course includes a hands-on laboratory component with a minimum of 12 student-conducted laboratory investigations. Each student should complete a lab notebook or portfolio of lab reports.

AP Physics C

This course should provide instruction in each of the following six content areas: kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Laboratory experiences should be included as part of the instruction. Students taking this course should be able to: design experiments; observe and measure real phenomena; organize, display, and critically analyze data; analyze sources of error and determine uncertainties in measurement; draw inferences from observations and data; and communicate results, including suggested ways to improve experiments and proposed questions for further study.

Oceanography

This course is designed to emphasize the interconnectedness of multiple science disciplines and the power to stimulate learning and comprehension across broad scales. Students must have a basis in the major disciplines of physics, chemistry, geology, and biology, from which this cross-disciplinary thinking can be nurtured. Students will recognize that the ocean is a dynamic system reflecting interactions among organisms, ecosystems, chemical cycles, and physical and geological processes, on land, in air, and in the oceans. Students will investigate oceanography concepts through experience in laboratories and fieldwork using the processes of inquiry.

AP Human Geography

The AP Human Geography course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications.

Individual and the Law

Analyzes the foundations and functions of the American legal system. Examines types of laws, the individual's relationship to the law and major court decisions. Integrates and reinforces social studies skills.

Ethics and the Law

This elective course offers students an understanding of the basic legal components of the legal and criminal justice system in the United States. The entire course examines how the law and ethics are related and are pursued within our legal system.

AP Art History

Conforms to College Board topics for the Advanced Placement History of Art Examination. Covers prehistory to Egyptian, Greek and Roman, Early Christian, Byzantine, Early Medieval, Romanesque, Gothic, Renaissance and Mannerist, 17th and 18th century, 19th century, 20th century and non-Western art.

Psychology

Investigates the principles of psychology, developmental psychology, heredity and environmental aspects of psychology, learning theory, personality, intelligence, social disorders and research methods used in the study of psychology. Integrates and reinforces social studies skills.

Sociology

Investigates principles of sociology, the individual in groups, social institutions, social control and the use of research methods to examine social problems. Integrates and reinforces social studies skills.

U.S. History in Film

Explores United States History through film. This course includes analysis and interpretation of events through both print and film.

AP European History

The AP European History course is a full year course designed to provide students with a survey of social, political, and economic history from 1450 to the present. Students in this course have the opportunity to gain college credit through the AP examinations given in May each year.

AP Psychology

This is a full-year, college-level, course that investigates in depth such core concepts as learning, memory, cognitive psychology, intelligence, motivation, emotion, and social psychology. High interest topics such as therapy, codependence, substance abuse, brain plasticity, and Alzheimer's disease are also studied. Students in this course have the opportunity to gain college credit through the AP examinations given in May of each year.

Current Issues

This is a one-semester course that provides students with an examination of significant global issues that affect the lives of contemporary citizens. Students in this course will gain an awareness of how events impact decisions made by policy makers.

World Languages

French I

This course is an introduction to the language and culture of the Francophone world. Topics include friends, people and places, school and education, sports and leisure activities, food and drink, money and purchases, likes and dislikes, and social situations. Students will be able to communicate in the present and near future tenses.

French II

This course is a continuation of the language and culture of the Francophone world. Topics include those from French I, as well as entertainment, food and shopping, and transportation. Students will be able to communicate in the present, past, and near future tenses and to give commands.

French III

This course is a continuation of the language and culture of the Francophone world. Topics include and expand upon those from French I and French II. Students will be able to communicate using a variety of tenses in the indicative mood, the present subjunctive, and the imperative. Communicative skills are emphasized at this level.

French IV

This course is a continuation of the language and culture of the Francophone world. It strives to integrate the four skills: reading, writing, listening and speaking, with emphasis on proficiency. Students should be able to discuss all topics covered in French I, II, and III, as well as their likes and dislikes regarding literature and fine arts. Students will be able to communicate using a variety of tenses in the indicative, the subjunctive, and the imperative moods. Communicative skills are emphasized at this level.

French V

Enhances Level Four skills in French, provides opportunities to increase levels of proficiency in all skill areas and to deepen understanding of French-speaking cultures.

AP French

The Advanced Placement Course in French encourages highly motivated foreign language students to continue developing proficiency in the target language. This course will provide the opportunities necessary to develop the four abilities of listening, speaking, reading and writing that are stressed in the AP examination that will be taken in the spring. The variety of activities will expose the students to rich insights into the French-speaking world.

German I

This course is an introduction to the German language and culture. Topics include friends, people and places, school and education, sports and leisure activities, food and drink, money and purchases, likes and dislikes, and social situations. Students will be able to communicate in the present and near future tenses and to give commands.

German II

This course is a continuation of the study of the German language and culture. Topics include those of German I A, as well as family, vacations, clothing, shopping, making phone calls, time and weather. Students will be able to communicate in the present, past, and near future tenses and to give commands.

German III

This course is a continuation of the German language and culture. Topics include and expand upon those from German I and German II. Students will be able to communicate using a variety of tenses in the indicative mood, the present subjunctive, and the imperative. Communicative skills are emphasized at this level.

German IV

This course is a continuation of the German language and culture. Students should be able to discuss all topics covered in German I, II, and III, as well as their likes and dislikes regarding literature and fine arts. They should be able to express themselves using a variety of tenses in the indicative, subjunctive, and imperative moods. Communicative skills are emphasized at this level.

Latin I

This course is an introduction to Latin including how it developed, how it works, and how it can serve the students. Emphasis is placed on grammar and vocabulary acquisition with comparisons to English usage and word derivation.

Latin II

This course continues the study begun in Latin I with a review of grammar and construction with a focus on vocabulary building for SATs. Students read simple and complete sentences and understand passages adapted and simplified from original authors. Interpretation of passages is based on knowledge of Roman culture.

Latin III

Enhances previously learned skills and introduces original works by Latin authors. The works of the authors may be selected in any order for courses designated at the third, fourth, and fifth year levels. The authors whose works are studied are Catullus, Cicero, Horace, Ovid, and Vergil. Selected works from authors such as Aulus Gellius, Juvenal, Livy, Martial, Cornelius, Nepos, Plautus, Sallust, Pliny, as well as authors from later Latin, can be included. Explores the political, economic, social characteristics represented in the works studied and examines the various writing styles of the authors.

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Spanish I

This course is an introduction to the language and culture of the Hispanic world. Topics include friends, people and places, school, sports and leisure activities, food and drink, money and purchases, likes and dislikes, and social situations. Students will be able to communicate in the present and near future tenses and to give commands.

Spanish II

This course is a continuation of the language and culture of the Hispanic world. Topics include those from Spanish I, as well as family, vacations, clothing, shopping, making phone calls, time and weather. Students will be able to communicate in the present, past, and near future tenses and to give commands.

Spanish III

This course is a continuation of the language and culture of the Hispanic world. Topics include those from Spanish I and II, as well as art, history, and issues, which face our society today, such as telecommunications, and how the present is affected by the past. Students will be able to communicate a variety of tenses in the indicative, subjunctive and imperative moods. Communicative skills are emphasized at this level.

Spanish IV

This course is a continuation of the language and culture of the Hispanic world. Students should be able to discuss all topics covered in Spanish I, II, and III, as well as their likes and dislikes regarding literature and fine arts. Students will be able to communicate using a variety of tenses in the indicative, the subjunctive, and the imperative moods. Communicative skills are emphasized at this level.

AP Spanish

The Advanced Placement Course in Spanish encourages highly motivated foreign language students to continue developing proficiency in the target language. This course will provide the opportunities necessary to develop the four abilities of listening, speaking, reading and writing that are stressed in the AP examination that will be taken in the spring. The variety of activities will expose the students to rich insights into the Spanish-speaking world.

Other

SAT Preparation

This class is designed to help students prepare for the Scholastic Assessment Test (SAT).