



Career Technical Education
Clovis Unified School District

CTE PATHWAYS AND COURSE DESCRIPTIONS 2018-19



BUCHANAN HIGH SCHOOL

Pathways

DESIGN, VISUAL and MEDIA ARTS		
Year in School	Pathway Course	Description
10	Introduction to Digital Photography (P)	This is an introduction course to digital photography. Topics include digital camera operations, lighting technique, aesthetics, Photoshop, Light-room, and portfolio development. Students will explore exposure systems using aperture, shutter speed, and ISO combinations. Prerequisite: None
11-12	**Digital Photography II (P)	This course has an emphasis on Adobe Photoshop in association with Digital Photography. This course builds on what students have learned in Introduction to Digital Photography, and continues with the same workflow. This course includes an increased focus on photo-shop, and developing client relationships. Prerequisite: Introduction to Digital Photography
11-12	*ROP Publishing Management w/English 12 (P)	Through this course, students will demonstrate advanced skills in writing and managing a publication. Newspaper, magazine, and anthology styles of journalistic writing and graphic design are integrated to produce student publications. Prerequisite: 10 th grade English and permission of instructor.
11-12	*ROP Journalism & Publishing w/English 11 or 12 (P)	Through this course, students demonstrate their skills in the art of writing and production. All forms of journalistic writing and layout design are covered to produce student publications. A major project for the students is to design, publish, and market the Buchanan High School yearbook. Prerequisite: Teacher approval – This class is for BHS students only.
EDUCATION		
Year in School	Pathway Course	Description
10	Exploration of Child and Adolescent Literature (HP)	Exploration of Child and Adolescent Literature is a grade 10 English Language Arts college preparatory course integrated with the Education Pathway standards. This course allows students to utilize Language Arts skills to investigate and evaluate the value and purpose of world literature for children and adolescents. Students synthesize knowledge of the developmental stages of physical, intellectual, social, and emotional development with an understanding of appropriate teaching materials and readings for each of the stages. Prerequisite: A 2.50 grade point average or higher, AND at least one of the following: Member of Educators Rising, completion of writing workshop, participant in summer enrichment activities offered to Education Pathway students, or recommendation by Education Pathway instructor.
11	Contemporary Issues in Education (HP)	Contemporary Issues in Education is a college preparatory grade 11 English course integrated with the Education Pathway standards of the Education, Child Development, and Family Services sector which allows students to see where the skills of English intersect with the elements of education. Students conduct research, closely read and analyze complex texts, evaluate instructional methodology and philosophy, and create a portfolio of reflections, activities, and compositions that, when synthesized, serve as the foundation for three capstone projects. Prerequisite: A 2.50 grade point average or higher, AND at least one of the following: Exploration of Child and Adolescent Literature with a “C” grade or higher, member of Educators Rising, completion of writing workshop, participant in summer enrichment activities offered to Education Pathway students, or recommendation by Education Pathway instructor.
11-12	*ROP Educational Careers w/ English 11 or 12 (P) Dual Enrollment Education 10	Studies include the nature and scope of the school system, the duties and opportunities of the professional teacher, factors relative to success in teaching, and credentialing requirements. Prerequisite: Grade of “C” or better in English 10, and English I 1. Excellent attendance and behavior records in previous grade levels required.
ENGINEERING DESIGN		
Year in School	Pathway Course	Description
9-11	Chemistry/ Environmental Engineering – Water (P)	Studies include the resolution to environmental engineering problems related to water and its interactions with the environment. Students will use a systems-based approach to understand that all environmental systems consist of matter and will apply this knowledge to solving current and future global water issues. Prerequisite: Math 1
9-12	Introduction to Engineering Design (P) (PTLW)	This is a high school foundation level course in the PTLW Engineering Program. Students are introduced to the engineering profession and a common approach to the solution of engineering problems, and engineering design process. Prerequisite: Math 1 or Concurrent enrollment in Math 1.
9-12	** Introduction to Engineering Design (PTLW) (HP)	Introduction to Engineering Design is a high school level foundation course in the PTLW Engineering Program. IED Students are introduced to the engineering profession with a common approach to the solutions of engineering problems, and engineering design processes. Prerequisite: Concurrent enrollment in Math 2 or higher, Grade of B or higher in Math 1 or Adv. Math 8.
10-12	**Principles of Engineering (PTLW) (HP)	Principles of Engineering is an introductory course in the high school engineering pathway. This course exposes students to some of the major concepts that they will encounter in a post-secondary engineering course of study. Prerequisite: Concurrent enrollment in Math 3. Grade of B or higher in Math 2.

11-12	Principles of Engineering (P)	This survey course exposes students to some of the major concepts that they will encounter in a post-secondary engineering course of study. Through problems that engage and challenge, students explore a broad range of engineering topics including mechanisms, strength of materials and structures, automation, and kinematics. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. Prerequisite: Introduction to Engineering Design.
ENVIRONMENTAL RESOURCES		
Year in School	Pathway Course	Description
9-10	Biological Links to Energy and Environment (P)	Studies include the biological exploration of cellular biology and the variety of chemical reactions that occur in specialized areas of organism cells. Prerequisite: None
10-12	Environmental Sustainability (P)	This is a high school-level specialization course in Project Lead The Way (PLTW) Engineering. Students investigate a design solution to solve real-world challenges related to clean water, a stable food supply, and renewable energy. Students are introduced to environmental issues and use the engineering design process to research and design potential solutions. Prerequisite: Biology or Biological Links to Energy & Environment, and Math 1.
11-12	Energy Technology 1(P)	Studies include the history and development of power production and transmission in the United States. Prerequisite: Completion of Math 1, Biology, and English 9. Permission of instructor
FOOD SERVICE and HOSPITALITY		
Year in School	Pathway Course	Description
9-12	Food Science and Nutrition (P)	Studies include an introduction to basic terms, safety, recipes, measurement and nutrition. Areas of emphasis include fruits and vegetables, milk and dairy products, breads, desserts and meat preparation. Prerequisite: None
9-12	Hospitality Management I(P)	Studies include the evolution of the hospitality industry with current significance. Organizational systems with management and career opportunities are investigated. Prerequisite: None
11-12	*ROP Culinary Arts	Studies include the exploration of the food industry that employs over 20 million people. Recipe development, meal planning and preparation, culinary fundamentals, ingredients, nutrition, and presentation are explored. Prerequisite: Recommended Hospitality Management I.
PATIENT CARE		
Year in School	Pathway Course	Description
10-12	Medical Health Careers (P)	This course is designed to allow students to explore careers in the medical health career arena with a focus on knowledge and skills required for entry-level employment. Students are introduced to health care with an emphasis on core skills and knowledge applicable to a variety of the health professions. Prerequisite: Completion of Biology with a "C" grade or higher or concurrent enrollment in Biology.
11-12	*ROP Sports Medicine/Fitness (P)	This course will allow students to gain practical experience learning to work in physical therapy, fitness and athletic training settings. The course empowers the student with the healing and conditioning process resulting from methods used in physical therapy and physical conditioning of the human body. Prerequisite: Completion of Biology with a grade of "C" or higher.
PERFORMING ARTS		
Year in School	Pathway Course	Description
11-12	**Advanced Technical Theater	This advanced technical theater arts course is designed to build upon skills learned in Drama 2 Technical Theater for students interested in becoming designers and leaders in the Technical Theater Arts world. Prerequisite: Drama 2 Technical Theater
PRODUCTION and MANAGERIAL ARTS		
Year in School	Pathway Course	Description
9-12	Videography 1(P)	Videography 1 is an introduction course that emphasizes and develops critical thinking skills by exploring the influence of design principles, historically significant art forms from various genres, and the production process of films and television programming. Prerequisite: Good citizenship and attendance.
10	Introduction to Digital Photography	This is an introduction course to digital photography. Topics include digital camera operations, lighting technique, aesthetics, Photoshop, Light-room, and portfolio development. Students will explore exposure systems using aperture, shutter speed, and ISO combinations. Prerequisite: None
10-12	Digital Film Making (P)	Studies include the artistry and technical elements of filmmaking. Students will be introduced to the theory of films and filmmaking and be expected, in writing, to analyze, describe and breakdown the elements of shot, a scene, and sequence. Prerequisite: Recommended Videography 1.
11-12	*ROP Multimedia Communication (P)	Students learn to use innovative technology and software, incorporate principles of design, and blend computer graphics into all elements of production. Prerequisite: None

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AGRICULTURAL MECHANICS		
Year in School	Pathway Course	Description
9	Ag Engineering I Dual Enrollment Mechanized AG 40	Studies include the introduction of the Ag Mechanics and engineering industry in the areas of welding, woodworking, electrical wiring, plumbing, and other related fields. Prerequisite: None.
9-12	Biology & Sustainable Ag (P)	Studies include plant and animal life, their relationship to one another, and to humans in their environment. Using agriculture as the model this class takes biology to the applied level. Prerequisite: None
10	Ag Engineering II (P)	Studies include a continuation of Ag Mechanics I, computer aided drafting, plasma arc cutting, fabrication techniques, and project design. Prerequisite: Ag Mechanics and Engineering I with a “C” grade or higher.
10-11	Chemistry and Agriscience (P)	Studies include the exploration of the physical and chemical nature of soil as well as the relationships between soil, plants, animals and agricultural practices. Prerequisite: Agricultural Biology, Biology or Honors Biology.
11	Ag Engineering III	Studies include advanced welding procedures, electrical wiring principles, budgets, and building projects. Prerequisite: Ag Mechanics and Engineering II with a “C” grade or higher.
11-12	*ROP Welding Fabrication and Application	Welding Fabrication and Application is a capstone course designed to train students for entry-level positions in welding/metal fabrication. This course prepares students for post-secondary agricultural mechanics, welding technology, and industrial technology educational programs. This full year course emphasizes welding and fabrication skills in the advanced phases of Oxyacetylene, SMAW (Arc Welding), GMAW (MIG Welding), and TIG welding. This course applies the practical knowledge and skills learned during the previous years of instruction. Prerequisite: Ag Engineering III or Welding Processes and Fabrication recommended, or Teacher Recommendation.
AGRICULTURAL SCIENCE		
Year in School	Pathway Course	Description
9-10	Agricultural Science 1	This course is designed for students interested in the field of agriculture. Topics covered include animal science, plant science, ornamental horticulture, public speaking, record keeping, parliamentary procedures, agricultural organization, and judging competitions. This course fulfills the CUSD graduation requirement for life science. Prerequisite: None
9-12	Biology & Sustainable Ag (P)	Studies include plant and animal life, their relationship to one another, and to humans in their environment. Using agriculture as the model this class takes biology to the applied level. Prerequisite: None
9-12	Agricultural Earth Science (P)	This is a college preparatory science course designed to provide students with quantitative analysis and experimental tools that will enable them to analyze content knowledge in the areas of geology, meteorology, oceanography, and astronomy. Prerequisite: None
10-11	Chemistry and Agriscience (P)	Studies include the exploration of the physical and chemical nature of soil as well as the relationships between soil, plants, animals, and agricultural practices. Prerequisite: Agricultural Biology, Biology or Honors Biology.
11	Food Science (P)	Studies include the application of the fundamental scientific principles to the research, development, manufacturing, packaging, storage, and marketing of food products. Prerequisite: Math 1, Ag Biology or Biology
10-12	AP Environmental Science (HP)	This class prepares students to pass the national exam for AP Environmental Science for college placement and/or credit. Topics include energy flow, cycling of matter, geological activities, atmosphere chemistry, and other relevant topics. This rigorous science course stresses scientific principles, concepts, and theories required to understand the interrelationships of the natural world. Prerequisite: Biology, or AP Biology, Chemistry, AP Chemistry, Math 1 and Math 2.
11-12	Adv.Inter-disciplinary Science for Sustainable Agriculture (P)	Studies include the design systems and experiments to solve agricultural management issues currently facing the industry. Prerequisite: Successful completion of life science and physical science.
ANIMAL SCIENCE		
Year in School	Pathway Course	Description
9-12	Biology & Sustainable Ag (P)	Studies include plant and animal life, their relationship to one another, and to humans in their environment. Using agriculture as the model for this class takes biology to the applied level. Prerequisite: None
9-10	Agricultural Science 1	This course is designed for the student interested in the field of agriculture. Topics covered include animal science, plant science, ornamental horticulture, public speaking, record keeping, parliamentary procedures, agricultural organization, and judging competitions. This course fulfills the CUSD graduation for life science. Prerequisite: None
10-11	Chemistry and Agriscience (P)	Studies include the exploration of the physical and chemical nature of soil as well as the relationships between soil, plants, animals, and agricultural practices. Prerequisite: Agricultural Biology, Biology or Honors Biology.

11-12	CDE Animal Science (P) Dual Enrollment Animal Science 1	Studies include the principles of animal science focusing on areas of livestock production, anatomy, physiology, reproduction, nutrition, respiration, and genetics. Prerequisite: Successful completion of Algebra 1, Biology 1AB or Ag Biology.
11-12	*ROP Veterinary Science (P)	Studies include entry-level skills to work in animal care facilities. Students will receive instruction in the identification of animal breeds, proper health, and safety procedures. Prerequisite: Biology (P)
PLANT and SOIL SCIENCE		
Year in School	Pathway Course	Description
9-10	Art and History of Floral Design (P) Dual Enrollment Environmental Horticulture 37	Studies include the application and artistic approach to floral design. This class involves the fundamentals of floral design theory, techniques, and skills currently practiced in the floral design industry. Prerequisite: None
9-12	Biology & Sustainable Ag (P)	Studies include plant and animal life, their relationship to one another, and to humans in their environment. Using agriculture as the model for this class takes biology to the applied level. Prerequisite: None
10-11	Chemistry and Agriscience (P)	Studies include the exploration of the physical and chemical nature of soil as well as the relationships between soil, plants, animals and agricultural practices. Prerequisite: Agricultural Biology, Biology or Honors Biology.
11-12	Botany (P)	This class introduces students to agricultural methods and practices as well as biological principles of plant science. Topics will include plant biology, classification, water, culturing methods, propagation, floriculture, landscape design, and agricultural impacts on business. Prerequisite: Biology or Chemistry with "C" grade or higher.
11-12	Ornamental Horticulture	This project-based course teaches students to design, install, and maintain landscaped areas from small gardens to large parks. During the design phase, students learn drafting skills for layout and design of landscapes as well as proper plant usage when working with grass, shrubs, flowers, and trees. Prerequisite: Biology (P)
11-12	Plant Production Management (P)	This course encompasses learning the farming practices of row crops, orchard production, vineyard production, safe transport methods, quality control and fresh fruit grading/evaluations. At the conclusion of the year, students will have an opportunity to market and sell the produce/ projects at the McFarlane-Coffman Agriculture Center. Prerequisite: Sustainable Agriculture Biology, Agriculture Soil and Chemistry, and Botany.
11-12	Advanced Floral Design	This course will build upon the prerequisite course, The Art and History of Floral Design. Advanced Floral Design will increase the focus on the art design, handling of cut flowers, the mechanics of floral design, and the effects of retail in the floral industry. Students will learn about building and designing displays, advertising, marketing, pricing and sales. Students will also develop floral design skills for use in industries such as wedding, sympathy, and event floral work. Prerequisite: The Art and History of Floral Design.
EDUCATION		
Year in School	Pathway Course	Description
10	Exploration of Child and Adolescent Literature (HP)	Exploration of Child and Adolescent Literature is a grade 10 English Language Arts college preparatory course integrated with the Education Pathway standards. This course allows students to utilize Language Arts skills to investigate and evaluate the value and purpose of world literature for children and adolescents. Students synthesize knowledge of the developmental stages of physical, intellectual, social, and emotional development with an understanding of appropriate teaching materials and readings for each of the stages. Prerequisite: A 2.50 grade point average or higher, <u>AND</u> at least one of the following: Member of Educators Rising, completion of writing workshop, participant in summer enrichment activities offered to Education Pathway students, or recommendation by Education Pathway instructor.
11	Contemporary Issues in Education (HP)	Contemporary Issues in Education is a college preparatory grade 11 English course integrated with the Education Pathway standards of the Education, Child Development, and Family Services sector which allows students to see where the skills of English intersect with the elements of education. Students conduct research, closely read and analyze complex texts, evaluate instructional methodology and philosophy, and create a portfolio of reflections, activities, and compositions that, when synthesized, serve as the foundation for three capstone projects. Prerequisite: A 2.50 grade point average or higher, <u>AND</u> at least one of the following: Exploration of Child and Adolescent Literature with a "C" grade or higher, member of Educators Rising, completion of writing workshop, participant in summer enrichment activities offered to Education Pathway students, or recommendation by Education Pathway instructor.
11-12	*ROP Careers with Children Dual Enrollment Child Dev 1	Studies include the preparation to work in fields dealing with young children and developmental stages of children before birth to age 12. Students gain firsthand experience through classroom and worksite learning, job shadowing, and tours that enable them to determine the benefits of an education-related career. Prerequisite: Excellent attendance and citizenship.
11-12	*ROP Educational Careers w/English 11 or 12 (P) Dual Enrollment Education 10	Studies include the nature and scope of the school system, the duties and opportunities of the professional teacher, factors relative to success in teaching, and credentialing requirements. Prerequisite: Grade of "C" or better in English 10, and English 11. Excellent attendance and behavior records in previous grade levels required.

EMERGENCY RESPONSE		
Year in School	Pathway Course	Description
11-12	*ROP Fire Fighting Technology I Dual Enrollment Seniors Only Fire Tech 1	Studies include preparing students for firefighting and related tasks. Students learn about firefighting organizations, use and handling of equipment, protection and safety, fire behavior and extinguishing methods. Prerequisite: Emergency Medical Responders recommended.
12	*ROP Fire Fighting Technology II Dual Enrollment Seniors Only Fire Tech 1	Studies include the reinforcement of concepts from Fire Fighting Technology I and an increasing emphasis on leadership. Prerequisite: Fire Fighting Technology I.
PATIENT CARE		
Year in School	Pathway Course	Description
11-12	*ROP Medical Careers	Studies include learning of transferable skills related to entry-level health occupations, exploration of career options in the health industry, and becoming knowledgeable of post-secondary educational requirements. Prerequisite: Completion of Biology (P) with a grade of "C" or higher.
12	*ROP Public Allied Health and Medical Wellness	This course will explore the many facets of public and medical health. Content will relate to individuals, community, careers, and institutions directly involved with health and wellness issues. Students will explore the domains of health including psychosocial, physical, environmental elements and the impact on a person's wellness. Prerequisite: Maintain an overall GPA of 2.5 or higher.
PUBLIC SAFETY		
Year in School	Pathway Course	Description
11-12	*ROP Criminal Investigation	Studies include an awareness of the various components of criminal investigation, with emphasis placed on the development of attitudes, skills and competencies related to criminal investigation. Prerequisite: Grade of "C" or higher in English 10, and English 11.
11-12	*ROP Criminal Justice	Studies include the awareness of career options (attorney, police officer, probation officer) and information in the area of law enforcement and private security for interested students. Prerequisite: Grade of "C" or higher in English 10, and English 11.

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EDUCATION		
Year in School	Pathway Course	Description
10	Exploration of Child and Adolescent Literature (HP)	Exploration of Child and Adolescent Literature is a grade 10 English Language Arts college preparatory course integrated with the Education Pathway standards. This course allows students to utilize Language Arts skills to investigate and evaluate the value and purpose of world literature for children and adolescents. Students synthesize knowledge of the developmental stages of physical, intellectual, social, and emotional development with an understanding of appropriate teaching materials and readings for each of the stages. Prerequisite: A 2.50 grade point average or higher, AND at least one of the following: Member of Educators Rising, completion of writing workshop, participant in summer enrichment activities offered to Education Pathway students, or recommendation by Education Pathway instructor.
11	Contemporary Issues in Education (HP)	Contemporary Issues in Education is a college preparatory grade 11 English course integrated with the Education Pathway standards of the Education, Child Development, and Family Services sector which allows students to see where the skills of English intersect with the elements of education. Students conduct research, closely read and analyze complex texts, evaluate instructional methodology and philosophy, and create a portfolio of reflections, activities, and compositions that, when synthesized, serve as the foundation for three capstone projects. Prerequisite: A 2.50 grade point average or higher, AND at least one of the following: Exploration of Child and Adolescent Literature with a “C” grade or higher, member of Educators Rising, completion of writing workshop, participant in summer enrichment activities offered to Education Pathway students, or recommendation by Education Pathway instructor.
11-12	*ROP Careers with Children Dual Enrollment Child Dev 1	Studies include the preparation to work in fields dealing with young children and developmental stages of children before birth to age 12. Students gain firsthand experience through classroom and worksite learning, job shadowing, and tours that enable them to determine the benefits of an education-related career. Prerequisite: Excellent attendance and citizenship.
11-12	*ROP Educational Careers w/English 11 or 12 (P) Dual Enrollment Education 10	Studies include the nature and scope of the school system, the duties and opportunities of the professional teacher, factors relative to success in teaching, and credentialing requirements. Prerequisite: Grade of “C” or better in English 10, and English 11. Excellent attendance and behavior records in previous grade levels required.
RESIDENTIAL and COMMERCIAL CONSTRUCTION		
Year in School	Pathway Course	Description
9-10	**Fundamentals of Carpentry	This is an introductory course which students will learn safe, efficient use of hand and power tools in woodworking/construction. This course is open to 9 th grade students. Prerequisites: None
10-12	Basic Metal Manufacturing	Studies include the basic principles of metal welding and forming to finish construction projects. Prerequisite: None
9-12	Construction Technology 1 – Introduction	This course involves students in projects and problem-based learning experiences that introduce the world of construction. Prerequisite: Completion of Math 1 or concurrent enrollment.
10-12	Construction Technology Foundation 2	Studies include the fundamental and requisite skills for specialty areas such as; project design, estimation, blueprint reading, framing, bricklaying, and concrete masonry. Prerequisite: Successful completion of Construction Technology I – Introduction.
11-12	*Building Scaled Structures (P) Dual Enrollment Construction 50A	This course integrates skills and concepts from the building and construction trades with applied mathematics and English. Students will apply the craft skills required to design and build a variety of scaled structures that meet current code requirements. Students will make real-world connections between construction, math, and English using student-centered construction projects. Prerequisite: 1 year Construction Technology; concurrent enrollment in Math 2.
11-12	*ROP Electrical Systems – Sound and Communication	Studies include the exploration of computers and computer networks, video security surveillance, burglar alarms, fire alarms, and an assortment of electronic systems. Prerequisite: Computer Networking and Technology recommended.
SYSTEMS DIAGNOSTICS, SERVICE, and REPAIR		
Year in School	Pathway Course	Description
9-12	Basic Auto	This course provides students with information and activities that will stimulate understanding of the automobile and the automotive industry. It covers information regarding components of the automobile and how they work together as well as general principles and basic service. Prerequisite: None
10-12	Auto 2	Studies include the principles of engines, chassis, electrical systems, brake, and suspension systems. Prerequisite: Basic Auto 1 with grade of “C” or higher.

10-12	Auto 3	This course covers two related areas of the automobile electrical systems and engine performance. Electrical systems involves the detailed study of electrical fundamentals: starting, charging, ignition, lighting, and auxiliary systems. Engine performance deals with the principles of engine compression, ignition, and carburetion. Students will learn to work with electrical test equipment commonly used in the industry. Prerequisite: Auto 2 with grade of "C" or higher.
11-12	*ROP Automotive Systems Technology Dual Enrollment Auto Tech 9	This auto systems course provides students practical hands-on experience in diagnosing, troubleshooting and service procedures in the automotive field. The course also covers shop practice of maintenance and repair in the automotive specialty areas. Along with classroom work, this class will consist of a series of projects to be completed on automobiles. All repair jobs will be approved and assigned by the instructor with some students specializing in certain interest areas. Prerequisite: Auto 3 with grade "C" or higher recommended.

CLOVIS NORTH HIGH SCHOOL

Pathways

EDUCATION		
Year in School	Pathway Course	Description
10	Exploration of Child and Adolescent Literature (HP)	Exploration of Child and Adolescent Literature is a grade 10 English Language Arts college preparatory course integrated with the Education Pathway standards. This course allows students to utilize Language Arts skills to investigate and evaluate the value and purpose of world literature for children and adolescents. Students synthesize knowledge of the developmental stages of physical, intellectual, social, and emotional development with an understanding of appropriate teaching materials and readings for each of the stages. Prerequisite: A 2.50 grade point average or higher, AND at least one of the following: Member of Educators Rising, completion of writing workshop, participant in summer enrichment activities offered to Education Pathway students, by Education Pathway instructor.
11	Contemporary Issues in Education (HP)	Contemporary Issues in Education is a college preparatory grade 11 English course integrated with the Education Pathway standards of the Education, Child Development, and Family Services sector which allows students to see where the skills of English intersect with the elements of education. Students conduct research, closely read and analyze complex texts, evaluate instructional methodology and philosophy, and create a portfolio of reflections, activities, and compositions that, when synthesized, serve as the foundation for three capstone projects. Prerequisite: A 2.50 grade point average or higher, AND at least one of the following: Exploration of Child and Adolescent Literature with a “C” grade or higher, member of Educators Rising, completion of writing workshop, participant in summer enrichment activities offered to Education Pathway students, or recommendation by Education Pathway instructor.
11-12	*ROP Careers with Children Dual Enrollment Child Dev 1	Studies include the preparation to work in fields dealing with young children and developmental stages of children before birth to age 12. Students gain firsthand experience through classroom and worksite learning, job shadowing, and tours that enable them to determine the benefits of an education-related career. Prerequisite: Excellent attendance and citizenship.
11-12	*ROP Educational Careers w/English 11 or 12 (P) Dual Enrollment Education 10	Studies include the nature and scope of the school system, the duties and opportunities of the professional teacher, factors relative to success in teaching, and credentialing requirements. Prerequisite: Grade of “C” or better in English 10, and English 11. Excellent attendance and behavior records in previous grade levels required.
PATIENT CARE		
Year in School	Pathway Course	Description
11-12	*ROP Medical Careers	Studies include learning of transferable skills related to entry-level health occupations, the exploration of career options in the health industry, and becoming knowledgeable of post-secondary educational requirements. Prerequisite: Completion of Biology AB with a grade of “C” or higher.
11-12	*ROP The Principles of Athletic Training	Studies include instruction and practice in the skills and techniques necessary for the prevention and care of athletic injuries and also instruction in medical terminology, physical anatomy, and first aid/CPR. Prerequisite: None
11-12	*ROP Rehabilitation Therapy Careers	This course is designed to provide the student with opportunities to learn transferable skills related to entry-level occupational and physical therapy occupations, explore career options, and become knowledgeable with post-secondary educational requirements as related to such career options. The course introduces the student to therapy careers including occupational therapy, physical therapy, and other prominent therapy careers, placing an emphasis on a set of core skills and knowledge applicable to many health care disciplines; desirable employment attributes and job-seeking skills are addressed. Prerequisite: Biology, and Anatomy & Physiology are required.
SOFTWARE and SYSTEMS DEVELOPMENT		
Year in School	Pathway Course	Description
7	Computer Application 7	This is an introductory course where students will learn foundational computer application programs to support their learning and demonstration of knowledge on their core academic classes and strategies for appropriate online communication. Students will understand the National Technology in Education Standards (NETS) and meet proficiency requirements through the use of worksheets, quizzes, tests, and projects. Prerequisite: None
8	Computer Application 8	Students will learn basic programming skills, web design, computing and data analysis, robotics, advanced research skills, photography, and videography. Students will understand the National Technology in Education Standards (NETS) and meet proficiency requirements through the use of worksheets, quizzes, tests, and projects. Prerequisite: None

7-8	Robotics 7, 8	Students will learn the appropriate safety protocols for the classroom and shop. Students are certified, then matriculate through Unit 2 – The Introduction to Robotics. Students work in groups to deconstruct a robotics game challenge and present each component to the class and begin to design their robot. Prerequisite: If there is a school based FTC team, students may not be on any other FTC team. It is not a requirement to be on the school-based team.
9 -12	Principles of Engineering Robotics (P)	Students will be provided a systems approach to Robotic Engineering. Students will learn computer-aided design, programming, basic electricity, and fabrication skills needed to design, build and test robots. Prerequisite: Completion of Math 2 and Chemistry with a C or better.
9-10	Exploring Computer Science (P)	Exploring Computer Science is a yearlong course consisting of six units, approximately six weeks each. The course was developed around a framework of both computer science content and computational practice. Assignments and instruction are contextualized to be socially relevant and meaningful for diverse students. Prerequisite: Math 1, grade “B” or higher.
9-12	**Computer Aided Design and Engineering	This course uses 3D modeling software that takes students through hands on projects to create a work product ready to be manufactured or engineered. Prerequisite: Grades of B or higher in Math 1 (or B or A in a higher level math course).
9-12	**AP Computer Science Principles	AP Computer Science Principles is a course that delves into five specific aspects of computer science including: Internet - how the multi-layered systems work; Digital Information – use of a variety of tools; Big Data and Privacy - how to research current events; and Building Apps - how to create a series of applications. Prerequisite: Grade B or higher in Math 1, or a Grade B or A in a higher level math course.
11-12	AP Computer Science (HP)	This course is an introduction to computer science using Java programming language. Successful completion of this course will prepare students for the AP College Board exam in May. Prerequisite: Math 3 with grade “B” or higher.

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FINANCIAL SERVICES		
Year in School	Pathway Course	Description
9-12	Computer Applications	This course is for students who desire keyboarding skills for college and personal use. Students will learn keyboard and word processing applications, databases, spreadsheets, graphics, and basic desktop publishing skills. Prerequisite: None
10-12	Financial Literacy (P)	This course provides background and knowledge of essential, necessary financial skills for all students. It is designed to inform, alert, and educate students in the concepts of personal finance and money management. Core concepts enable students to implement decision-making skills necessary to become wise, knowledgeable consumers, savers, investors, users of credit, money managers, citizens, and members of a global workforce and society. Prerequisite: Computer Applications or demonstration of readiness.
11-12	Business & Financial Services Internship (P)	This course outlines concepts pertaining to a variety of business, related financial services. Students learn processes for loans, credit, and payment services to business and individuals. In addition, money and banking, lending fundamentals, and federal regulations are explored. Prerequisite: Financial Literacy
11-12	Intro to Finance (P)	This course provides students with the foundational knowledge and skills to make effective financial decisions, use career information, and manage career plans. Within this course, students practice the essential knowledge and skills common to all pathways in the Business and Finance Industry Sector, including cash management technique, the role of managerial accounting and use of planning and control principles to evaluate an organization. Communication skills and basic mathematical concepts are reinforced in this course. Prerequisite: Financial Literacy
11-12	*ROP Small Business Management	Studies include the development of both business and marketing plans essential to the operation of a successful business. Prerequisite: Keyboarding and computer experience is helpful.
PERFORMING ARTS		
Year in School	Pathway Course	Description
10-11	Drama 2 Technical Theater (P)	The student will study and apply the principles of group dynamics and collaboration during the pre-production through post production process of Theatrical Production. This course provides instruction in the implementation of theatrical designs for sets, lights, sound, properties, costumes, and makeup. Prerequisite: Drama 1 with “B” or higher, or permission of instructor
11-12	*ROP Performing Arts w/English 11 or 12 (P)	This class is a marriage of drama, music, and technology. It will prepare students for a possible career in the entertainment industry through all aspects of the production of a Broadway musical from preliminary choice of show, construction, lighting, and marketing to final accounting at the close of the run. Prerequisite: Recommended Drama 2 Technical Theater with “B” or higher, or permission of instructor.

SYSTEMS DIAGNOSTICS, SERVICE and REPAIR		
Year in School	Pathway Course	Description
9-12	Basic Auto	This course provides students with the information and activities which will stimulate understanding of the automobile and the automotive industry. It covers information regarding components of the automobile and how they work together, as well as general principles, and basic service. Prerequisite: None
10-12	Auto 2	Studies include the principles of engines, chassis, electrical systems, brake, and suspension systems. Prerequisite: Basic Auto 1 with grade of "C" or higher.
10-12	Auto 3	This is a year-long course covering two related areas of the automobile electrical systems and engine performance. One part of the course deals with electrical needs of the automobile and related components. It involves detailed study of electrical fundamentals: starting, charging, ignition, lighting and auxiliary systems. Engine performance deals with the principles of engine compression, ignition, and carburetion. Students will learn to work with electrical test equipment commonly used in the industry. Prerequisite: Auto 2 with grade of "C" or higher.
11-12	*ROP Engine Technology	Students gain practical, hands-on experience in diagnosing, trouble-shooting, and servicing procedures with particular emphasis on engine service and repair. The course also covers the shop practice of maintenance and repair in the following areas: drive trains, axles, suspension, steering, brakes, and air conditioning. Students develop their skills through classroom instruction and a series of assigned projects. Prerequisite: Basic Auto or Auto 2 recommended.