

CTE



CAREER & TECHNICAL EDUCATION ELECTIVES

ACT PREP (11)

ACT PREP

CREDITS: 0.5

PREREQUISITE: None

The course provides comprehensive preparation for four parts of the ACT: English, Math, Reading, and Science. It offers a practical approach, prioritizing the most frequently tested concepts. Example problems with detailed explanations, drills, and exercises will be used. It is the student's responsibility to register for this ACT on the ACTStudent.org website. Data shows that with each retake of the test, overall scores are raised by 1-3 points on average. Students are strongly encouraged to take the ACT once or twice during the semester they are enrolled in the ACT prep course.

ADVANCED PLACEMENT (AP) CAPSTONE: SEMINAR (11)

AP SEMINAR

CREDITS: 1.0

PREREQUISITE: Enrollment in an honors English course or 3.5 cumulative GPA

The first of two courses in the AP Capstone program, AP Seminar 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. 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.

ADVANCED PLACEMENT (AP) CAPSTONE: RESEARCH (12)

AP RESEARCH

CREDITS: 1.0

PREREQUISITE: AP Capstone: Seminar

AP Research allows students to design, plan, and conduct a yearlong research-based investigation on a topic of individual interest, documenting their process with a portfolio. This allows students to demonstrate the ability to apply scholarly understanding to real-world problems and issues. Students further the skills developed in AP Seminar by learning how to understand research methodology, employ ethical research practices, and access, analyze, and synthesize information to build, present, and defend an argument.

CAREERS IN INDUSTRY (11-12)

CAREERS

CREDITS: 0.5

PREREQUISITE: None

Careers in Industry anchors its units of study, speakers and field trips to the high demand industries of construction, healthcare, information technology, logistics or manufacturing. Student delve deeply into one of the industries with Ready for Industry's online certificate program which explores field terminology, standard practices, workplace expectations, current issues and trends, career opportunities and pathways. This active-learning class expects students to be self-reflective and interactive (Meets Career Prep B Standards).

CAREER PREPAREDNESS A

CAREER PREP

CREDITS: 0.5

PREREQUISITE: None

Career Preparedness focuses on three integrated areas of instruction: academic planning and career development, financial literacy, and technology. Course content includes college and career preparation, computer literacy skills, and personal finance. Technology topics are interwoven throughout course instruction. Course standards are designed to provide a strong foundation for student acquisition of the skills, attitudes, and knowledge that enable them to achieve success in school, at work, and across the life span.

CHILD DEVELOPMENT

CH DEV

CREDITS: 0.5

PREREQUISITE: None

In this course students study pregnancy, labor and delivery, and life as a growing family. Topics covered include: prenatal development, birth defects, genetics, pregnancy, the birth process, parenting skills, financial considerations, caring for the newborn, and the development of the child through the first year.

CULINARY ARTS (NUTRITION)

NUT I

CREDITS: 0.5

PREREQUISITE: None

This course introduces students to the fields of food preparation and nutrition. Topics covered include introduction to nutrition, reading and following recipes, food preparation terms, measuring techniques, lab procedures, and kitchen safety. Students are actively involved in the learning process through lab experiences that are coordinated with classroom discussions and lectures.

DATA ANALYTICS: SPORTS PERFORMANCE CONCENTRATION (10-12)

DATA AN

CREDITS: 0.5 or 1.0

PREREQUISITE: None

Data analytics is a specialized course designed to introduce statistics and the application of statistics to inform athletic decision-making that improves player and team performance as well as game tactics. By analyzing real JC football, basketball, and baseball game and practice film — along with weight room progression data — students will learn to ethically collect, record, catalog, track, analyze, and convert raw data into meaningful insights.

This class utilizes advanced software applications to deconstruct data into useful information and patterns to support valid conclusions. The result will lead to specific recommendations that improve athletic practices and techniques. This is a hands-on class where students will be responsible for designing and implementing their own data collection methods — for example, recording pitch velocities while personally throwing, or tracking jump height during their own vertical tests — to gain firsthand experience in both generating and analyzing athletic data.

DRIVER'S EDUCATION (10-12)

DRV ED

CREDITS: 0.5

PREREQUISITE: Driver's Permit

This program is designed to develop safe and efficient drivers who understand traffic safety. Students are taught the rules of the road, causes of accidents, and all aspects of safe driving. Following classroom instruction, driving will be taught using a variety of performance-based skills on various road experiences. This course carries a fee of \$200.00

GRAPHIC DESIGN & ADVERTISING (10-12)

GR & AD DESIGN

CREDITS: 1.0

PREREQUISITE: None

Students will learn how to use three programs in the Adobe Creative Suite, which include but are not limited to Photoshop, InDesign, and Illustrator. By the end of the class, each student will have an intermediate level proficiency in each program, allowing them to continue working in the programs and gain more experience with the potential to become industry certified in each program after High School. Through project-based, hands-on classwork and tutorials, students will gain the confidence and experience they need to work in marketing, advertising, and graphic design-related careers.

HUMAN MOVEMENT SYSTEMS: BIOMECHANICS (10-12)

BIOMECHANICS

CREDITS: 0.5

PREREQUISITE: None

This class is a one semester project based learning course. The students will learn how the human movement system functions in an interdependent, interrelated scheme. They will study the muscular system (functional anatomy), skeletal system (functional biomechanics) and the nervous system (motor behavior). The course will cover how biomechanics applies the principles of physics to quantitatively study how forces interact within a living body. The specific focus will be the motions that the Human Movement System produces and the forces that act upon it in order to present a basic understanding of anatomical terminology, force-couples, leverage and basic muscle-mechanics.

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INDEPENDENT LIVING (12)

IND LIVING

CREDITS: 0.5

PREREQUISITE: None

Independent Living is designed to assist seniors as they transition from high school and home to college and life on their own. Topics covered include: budgeting, comparison shopping, interpersonal relationships, health and safety, interviewing skills, and laundering and mending. Students will also receive information related to college life, including scheduling classes, housing options, campus safety, and balancing school, work, and a social life (Meets Career Prep B Standards).

INTERIOR DESIGN (9-12)

INT DESIGN

CREDITS: 0.5

PREREQUISITE: None

This course introduces students to the concepts in interior design and decorating. Topics covered include: the use of color, line, shape, and texture in interior decorating; how to read and understand floor plans; methods of drawing floor plans to scale; furniture arrangement; use of accent pieces and accessories; types of housing options available to the consumer; and furniture, carpeting and upholstery selections. Students are responsible for completing projects utilizing all of the skills learned throughout the semester.

INTRO TO MARKETING & MEDIA (9-12)

MARK

CREDITS: 1.0

PREREQUISITE: None

Marketing and Media is a project-based learning class that introduces students to digital marketing techniques, tools, and methods, including email, websites, applications, social media, and other electronic means. Emphasis is placed on creating, implementing, and critiquing online advertising, email marketing, websites, social media, video and images, and creating and repurposing content for use in both digital and school facility environments.

PERSONAL FINANCE (10-12)

FINANCE

CREDITS: 0.5

PREREQUISITE: None

This one-semester course is based on the National Standards for Personal Financial Literacy through the Next Gen Personal Finance Platform. The course presents essential knowledge and skills to make informed decisions about real-world financial issues. Students will learn to apply decision-making skills to evaluate career choices and set personal goals. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success.

SPORTS MARKETING (9-12)

MARK 01

CREDITS: 1.0

PREREQUISITE: None

Sports Marketing focuses on preparing students for the world of sports by preparing both curriculum-based and project-based work for a diverse experience. Every students will be introduced to fascinating world of sports business. Students will be presented with challenges that tackle sponsorship, advertising, social media, and analytics which they will have the opportunity to apply to John Carroll Athletic Events.

SPORTS MEDICINE (11-12)

SPORTS MED

CREDITS: 0.5

PREREQUISITE: None

Sports Medicine is an area of health services that applies medical and scientific knowledge to; prevent, recognize, manage, and rehabilitate injuries related to sport, exercise, or recreational activity. Students will gain a better understanding about the history of sports medicine and the various professions within the field. They will develop a deeper knowledge of the human muscular-skeletal anatomy and common injuries and illness associated with athletics. Students will learn the different methods and techniques for preventing injuries. They will learn basic skills and knowledge for injury evaluation and the rehabilitation techniques for treating those injuries. The class will have both a lecture and practical component, where they will learn the skills and then have the opportunity to practice those techniques. After completion of the class students may take the opportunity to further their education by participating in various internships or job shadowing programs with physical therapists, orthopedic physicians, or athletic trainers in both the high school and college setting.

SPORTS NUTRITION (10-12)

SPORTS NUT

CREDITS: 0.5

PREREQUISITE: None

This class is a one semester project based learning class. The students will learn a combination of strategies to enhance physical and athletic performance through specific food and nutrient choices, timing and quantities. The course will cover macronutrients, micronutrients and their role in performance enhancement. Pre-exercise and post-exercise nutrition strategies. Hydration and basic nutritional recommendations for optimizing health, performance and weight control.

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WORKBASED LEARNING I & II (12)

YWBLI or WBL II

CREDITS: 1.0 each

PREREQUISITE: Application, instructor approval

JC 360 is our work-based learning/co-op program for supervised experiential learning. It provides students with the opportunity to earn up to 2 credits per year. Credit(s) are earned by A) hours completed at an approved job site, internship, research program, or volunteer experience, B) bi-weekly check-in with JC teacher mentor, and C) two quarterly reflections. Students are required to work 140 hours for each credit and continuous employment is required throughout the school year.

Required Hours (per credit)

- 9 weeks = 35 hours
- 1 semester = 70 hours
- 1 year = 140 hours

YEARBOOK (10-12)

YRBOOK

CREDITS: 1.0

PREREQUISITE: Application, instructor approval

This course revolves around the production of the school yearbook. Students spend time in writing and design activities as well as attending school events in order to photograph and compose articles/story lines about these activities. Students should be prepared to spend additional time outside of class to complete their assignments. In the summer, all members will be asked to attend a workshop and two organizational meetings. This course is designed for the student who thrives on challenge and is a self-starter. Students should have a B average in their current English class.

YOUTH IN GOVERNMENT (10-12)

YIG

CREDITS: 0.5

PREREQUISITE: None

An elective available to 10-12 graders which focuses on the development of citizen participation in government, in part through instruction in the rules and procedures of the judiciary and the legislature. Students will prepare for participation in Youth Judicial and Youth Legislature at the local, regional and state levels.

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