Computer and Technology Education (CTE)

CTE Classes offered to rising 10th-12th grade students:

- Accounting 1
    - Prerequisite: Algebra 1
    - Honors Option
    - This course is designed to help the student develop the skills necessary for the highly technical interaction between accounting and business,to develop an understanding of the steps of the accounting cycle as applied to several different kinds of business operations, and to develop an understanding of accounting concepts, principles, and practices. Use of the computer in simulated activities gives the student an opportunity to see the advantages of technology in accounting procedures.

- Accounting 2
    - Prerequisite: Accounting 1
    - This course expands the student's understanding of accounting subsystems and develops an understanding of various methods of internal control procedures. The student develops competence in using subsidiary ledgers, in preparing financial statements, and in performing end-of period procedures. The student will demonstrate the use of accounting principles through the use of computer software and simulated activities.

- Advanced Personal Finance
    - Dual Credit Course Option and Honors Option
    - This course is designed to introduce the student to basic financial literacy skills which includes budgeting, obtaining credit, maintaining checking accounts, analyzing the basic elements of finance, computing payroll, recording business transactions, and applying computer operations to financial management.

- AP Computer Science Principles
    - Prerequisite: Algebra 1
    - Students planning to take AP courses are encouraged to take this course to fulfill the Computer Science Graduation Requirement (See Chart below for Pathway Information)
    - This course introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. The course promotes deep learning of computational content, develops computational thinking skills, and engages students in the creative aspects of the field. The course is equivalent to a first-semester introductory college computing course.

- Fundamentals of Computing
    - Fulfills the Computer Science Graduation Requirement (See Chart below for Pathway Information)
    - This course of study is designed to allow students to explore a variety of computer science topics, such as web design, human computer interactions, programming, and problem solving. Optional topics include mobile applications, robotics, and digital animation. Students will develop critical thinking, logic, and problem solving skills relevant to today's technology.

- Fundamentals of Web Page Design
    - Honors Option
    - Fulfills the Computer Science Graduation Requirement (See Chart below for Pathway Information)
    - This course is designed to provide the student with the knowledge and skills needed to design Web pages. Students will develop skills in designing, implementing, and maintaining a Website using authoring tools. Successful completion of this course will prepare the student to take industry certification test(s). This course will meet the computer science requirement.

- Business Data Applications
    - Fulfills the Computer Science Graduation Requirement (See Chart below for Pathway Information)
    - This course of study is designed to teach the student advanced computer concepts related to processing data into useful information needed in business situations by using advanced database, spreadsheet, word processing, and presentation software capabilities.

- Marketing
    - Dual Credit Course Option
    - This course introduces marketing concepts and examines the economic, marketing, and business fundamentals, in addition to the marketing functions of selling, promotion, and distribution. The standards listed are core standards and those standards reflect the needs of the local business community. This is the basic course in the marketing curriculum and should be taken before the specialized courses.

- Entrepreneurship
    - This course is designed to provide students with the knowledge and skills leading to the development of a business plan for small business ownership. An important part of the course will be the incorporation of marketing, staffing, and financial considerations.

- Advertising
    - Prerequisite: Marketing
    - This course is designed to introduce the concepts of advertising, planning strategies, communication skills, and professional development. Course content includes budget development, media selection, design, and the preparation of ads for various media.

- Business Finance
    - Prerequisite: Accounting 1
    - The Business Finance course is designed to provide students with an understanding of how corporations, organizations, and businesses handle money. Students will learn about financial fundamentals, environment, and markets, financial management planning and analysis, short and long-term financial activities, credit principles and practices, securities and investments, insurance and risk management, international business and trade, information protection, and professionalism.

- Medical Terminology
    - Honors Level Option
    - Medical terminology is designed to develop in the students a working knowledge of the language of medicine. Students acquire word-building skills by learning prefixes, suffixes, roots, and abbreviations. Utilizing a body systems approach, the student will define, interpret, and pronounce medical terms relating to structure and function, pathology, diagnosis, clinical procedures, and pharmacology. Common abbreviations applicable to each system will be interpreted. Knowledge of medical terminology enhances a student's ability to successfully secure employment or pursue advanced education in health science.

- Sports Medicine 1
    - Prerequisite: Algebra 1
    - Sports Medicine 1 emphasizes the prevention of athletic injuries, including the components of exercise science, anatomy, principles of safety, first aid, cardiopulmonary resuscitation (CPR), and vital signs. Subject matter will also include discussion of legal issues, members of the sports medicine team, nutrition, protective sports equipment, environmental safety issues, taping and wrapping, mechanisms of injury, and application of other sports medicine concepts. Students interested in healthcare careers in athletic training, physical therapy, medicine, exercise physiology, nursing, biomechanics, nutrition, psychology, and radiology will benefit from this course

- Sports Medicine 2
    - Prerequisite: Sport Medicine 1
    - Honors Level Option
    - Sports Medicine 2 Honors emphasizes the recognition and care of common injuries and illnesses sustained by a physically active population. Subject matter will include discussion of specific conditions and injuries that may be experienced by individuals participating in athletic activities. In addition, the concepts of therapeutic modalities and exercise in the care of injuries will be examined. A focus on deeper understanding of body systems and common pathologies will be included. Concepts related to the administrative aspects of the sports medicine program will also be covered. Students will apply legal and ethical principles through real-world scenarios in various sports medicine settings. Other career roles in sports medicine will be discussed as the Athletic Trainer takes the injured athlete through the pathway of recovery

- Sports Medicine 3
    - Prerequisite: Sports Medicine 2
    - Sports Medicine 3 emphasizes the studentís ability to apply concepts from previous Sports Medicine course work to real-world situations and scenarios. A priority will be placed on understanding the current research and evidence based practices affecting the practice of Sports Medicine professionals. Students will develop policies, procedures, and guidelines based on these aspects, as well as explore detailed treatment and rehabilitation procedures for common athletic injuries.

- Sports and Nutrition
    - This course enables students to examine the relationship between physical activity, proper nutrition, sports performance, and overall wellness. Students will learn not only how to prepare nutritious foods, but also what and why foods are needed for healthy lifestyles and peak performance. This course will also strengthen health promotion and disease prevention through increased knowledge of nutrition and physical activity.

- Pharmacy For Medical Centers
    - Prerequisite: Health Sci Tech 1 or Tchr Rec
    - Dual Credit Course
    - Seniors Only
    - Pharmacy Technology is designed to train pharmacy technicians to pass the Pharmacy Technician Certifying Board examination. A practicing pharmacist has developed the curriculum. The program includes 90 classroom hours plus 60 homework hours for a total of 150 hours

- EMT
    - Dual Credit Course
    - Seniors Only

Computer Science (Coding) Class	Prerequisites	Eastside CTE Completer Pathways	Additional Info
Fundamentals of Computing (8-12th Grades)			• For those not seeking a Completer Pathway
Fundamentals of Web Page Design (9-12th grades)		• General Management • Marketing Communications	
Business Data Applications (9-12th grades)		• General Management • Business Finance • Marketing Communications • Accounting	
AP Computer Science Principles (9-12th grades)	• Algebra 1		• Students planning to take AP courses are encouraged to take this course to fulfill the computer science graduation requirement

Career Trees Related to Eastside's CTE Pathways

- Accounting and Business Management Career Tree
- Marketing Career Tree
- Finance Career Tree
- Computer Science Career Tree
- Health Science Career Tree