

Computer Information Systems Course Descriptions By Program of Study:

DIGITAL DESIGN1. Digital Media

Offered Each Spring Semester

Grade Level: 10-12

Class Length: Semester

Course #: 270602

Credits: 5

Prerequisite: None

Description: Students will create, design, and produce digital media including sound, video, and graphics. Emphasis will be placed on effective use of tools for interactive multimedia production including storyboarding, visual development, project management, and web processes.

2. Digital Design-Yearbook

Offered Each Semester

Grade Level: 10-12

Class Length: Semester

Course #: 270611

Credits: 5

Prerequisite: Digital Media

Description: Students will focus on developing advanced skills to plan, design, and create interactive projects using elements of texts, graphics, and digital imaging. These skills will prepare students for entry-level positions in the digital design field. Students will demonstrate proper use of copyright and fair use throughout the course.

3. Advanced Digital Design-Yearbook

Offered Each Spring Semester

Grade Level: 10-12

Class Length: Semester

Course #: 270613

Credits: 5

Prerequisite: Digital Design

Description: Students will focus on developing advanced skills to plan, design, and create interactive projects using elements of texts, graphics, and digital imaging. These skills will prepare students for entry-level positions in the digital design field. Students will demonstrate proper use of copyright and fair use throughout the course.

OR

3. Foundations of Web Design

Offered Each Fall Semester, Every Other Year

Grade Level: 10-12

Class Length: Semester

Course #: 270604

Credits: 5

Prerequisite: None, IT Applications II Helpful

Description: Students will demonstrate knowledge of web design and languages, including HyperText Markup Language (HTML) and Cascading Style Sheets (CSS) to create a content rich and visually pleasing website that captures and keeps visitors' interests. Focus will be given to effective page layout, image creation and manipulation, interactivity, content creation, and project management.

Computer Information Systems Course Descriptions By Program of Study:

WEB DEVELOPMENT1. Digital Media

Offered Each Spring Semester

Grade Level: 10-12

Class Length: Semester

Course #: 270602

Credits: 5

Prerequisite: None

Description: Students will create, design, and produce digital media including sound, video, and graphics. Emphasis will be placed on effective use of tools for interactive multimedia production including storyboarding, visual development, project management, and web processes.

2. Foundations of Web Design

Offered Each Fall Semester, Every Other Year

Grade Level: 10-12

Class Length: Semester

Course #: 270604

Credits: 5

Prerequisite: None, IT Applications II Helpful

Description: Students will demonstrate knowledge of web design and languages, including HyperText Markup Language (HTML) and Cascading Style Sheets (CSS) to create a content rich and visually pleasing website that captures and keeps visitors' interests. Focus will be given to effective page layout, image creation and manipulation, interactivity, content creation, and project management.

3. Web Design & Development

Offered Each Spring Semester, Every Other Year

Grade Level: 10-12

Class Length: Semester

Course #: 270706

Credits: 5

Prerequisite: Foundations Of Web Design

Description: Students will demonstrate advanced knowledge of web design and languages, including HyperText Markup Language(HTML) and Cascading Style Sheets (CSS) to create a content rich and visually pleasing website that captures and keeps visitors' interests. Focus will be given to effective page layout, image creation and manipulation, interactivity, content creation, and project management. This course may be available for articulated or dual credit at a postsecondary institution.

Computer Information Systems Course Descriptions By Program of Study:

BUSINESS TECHNOLOGY**1. Information Technology Applications I**

Offered Each Fall Semester

Grade Level: 9-10

Class Length: Semester

Course #: 270501

Credits: 5

Prerequisite: None

Description: Students will explore emerging technologies as it applies to their success for high school, college & career. The focus will be on the importance of digital citizenship, professional communication practices, advanced document processing, professional presentations, and intermediate spreadsheet and database applications used personally and professionally.

2. Information Technology Applications II

Offered Each Spring Semester

Grade Level: 9-10

Class Length: Semester

Course #: 270502

Credits: 5

Prerequisite: Information Technology I

Description: Students will focus on skill development in data science using spreadsheet, database, and integration of applications utilizing advanced features. Students taking both Information Technology Applications I & II may be eligible for industry certifications in Microsoft Office Applications.

3. Information Technology Fundamentals

Offered Each Fall Semester

Grade Level: 10-12

Class Length: Semester

Course #: 270504

Credits: 5

Prerequisite: None, Information Technology II Helpful

Description: Students are introduced to the proper use of information technologies (IT). In addition, they will be introduced to hardware and software selection and use, technology resource support, and ethical issues. Students will investigate information technology careers and certifications in networking, programming, and IT support services. Units would include, but not be limited to, exploring concepts in networking, programming, and support services, computer hardware components and peripherals, system and application software, and impact of technology on society.

OR**3. Foundations of Web Design**

Offered Each Fall Semester, Every Other Year

Grade Level: 10-12

Class Length: Semester

Course #: 270604

Credits: 5

Prerequisite: None, IT Applications II Helpful

Description: Students will demonstrate knowledge of web design and languages, including HyperText Markup Language (HTML) and Cascading Style Sheets (CSS) to create a content rich and visually pleasing website that captures and keeps visitors' interests. Focus will be given to effective page layout, image creation and manipulation, interactivity, content creation, and project management.

OR**3. Digital Design-Yearbook**

Offered Each Semester

Grade Level: 10-12

Class Length: Semester

Course #: 270611

Credits: 5

Prerequisite: None

Description: Students will focus on developing advanced skills to plan, design, and create interactive projects using elements of texts, graphics, and digital imaging. These skills will prepare students for entry-level positions in the digital design field. Students will demonstrate proper use of copyright and fair use throughout the course.

Computer Information Systems Course Descriptions By Program of Study:

INFORMATION TECHNOLOGY**1. Information Technology Fundamentals**

Offered Each Fall Semester

Grade Level: 10-12

Class Length: Semester

Course #: 270504

Credits: 5

Prerequisite: None, Information Technology II Helpful

Description: Students are introduced to the proper use of information technologies (IT). In addition, they will be introduced to hardware and software selection and use, technology resource support, and ethical issues. Students will investigate information technology careers and certifications in networking, programming, and IT support services. Units would include, but not be limited to, exploring concepts in networking, programming, and support services, computer hardware components and peripherals, system and application software, and impact of technology on society.

OR**1. Digital Media**

Offered Each Spring Semester

Grade Level: 10-12

Class Length: Semester

Course #: 270602

Credits: 5

Prerequisite: None

Description: Students will create, design, and produce digital media including sound, video, and graphics. Emphasis will be placed on effective use of tools for interactive multimedia production including storyboarding, visual development, project management, and web processes.

2. Foundations of Computing

Offered Each Fall, Every Other Year

Grade Level: 10-12

Class Length: Semester

Course #: 270704

Credits: 5

Prerequisite: IT Fundamentals (can be taken the same semester as IT Fundamentals) or Digital Media

Description: Designed to be the first computer science course for students who have never programmed before, Foundations of Computing is a starting point for Computer Science. Students will explore the impact of computing in society and build skills in digital citizenship and cybersecurity. Beyond learning the fundamentals of programming, students build computational-thinking skills by applying computer science to collaboration tools, modeling and simulation, and data analysis.

3. Computer Science Principles

Offered Each Spring, Every Other Year

Grade Level: 10-12

Class Length: Semester

Course #: 270703

Credits: 5

Prerequisite: Foundations of Computing

Description: This course introduces students to the foundations of computer science with a focus on how computing powers the world. Along with the fundamentals of computing, you will learn to analyze data, create technology that has a practical impact, and gain a broader understanding of how computer science impacts people and society.

OTHERCybersecurity

Offered In Class or Independent Study

Grade Level: 11-12

Class Length: Semester

Course #: 270707

Credits: 5

Prerequisite: Information Technology Applications II

Description: Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Students will solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior.

Information Technology Work-Based Learning Experience

Offered Each Semester

Grade Level: 12

Class Length: Semester

Course #: 320713

Credits: 5

Prerequisite: Communications/Information Systems Program of Study (3 Courses)

Description: This course allows the district to award credit for an Information Technology work-based learning experience. This course must be a part of a Work-based Learning Program.