CAREER AND TECHNICAL EDUCATION (CTE)
WEB DESIGN PATHWAY PROGRAM

FREEHOLD HIGH SCHOOL
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The **CAREER AND TECHNICAL EDUCATION WEB DESIGN PATHWAY PROGRAM** prepares students for careers in the field of web design. Students in the program learn how to develop, create and maintain professional websites for clients using current industry tools and emerging trends and technologies. This program offers students the unique opportunity to work with industry professionals to gain first-hand knowledge of the field. At the completion of the program of study students will graduate with a highly sought-after skill set, earn industry-recognized credentials and earn up to three college credits from the New Jersey Institute of Technology (NJIT).

CAREER OPPORTUNITIES: Web Developer, Media Specialist, Programmer, Streaming Media Specialist, Web Administrator, Web Developer, Social Networking Specialist, Search Engine Marketing Specialist, Search Engine Optimization (SEO) Specialist, and Specialist Webmaster.

INDUSTRY VALUED CREDENTIAL*: Web Design credential through the National Occupational Competency Testing Institute (NOCTI).
*An "Industry Valued Credential" is a certification awarded for an occupation that certifies a student has developed industry aligned skills and is valued by potential employers.

PROGRAM OF STUDY

Grade 9 Required Courses	Grade 10 Required Courses
Mathematics English 1 World History Biology Classical and World Language Health & Physical Education 9 Elective[1]	**Honors Web Design** Mathematics English 2 United States History 1 Science Health & Physical Education 10 Classical and World Languages (recommended) or Elective[2]
Grade 11 Required Courses	**Grade 12 Required Courses**
Advanced Honors Web Design Mathematics English 3 United States History 2 Science Health & Physical Education 11 Elective[1] or Elective[2]	**NJIT Information Technology (IS) 219 Advanced Website Development** Mathematics (recommended) English 4 Health & Physical Education 12 Elective[1] or Elective[2] or Elective[3] (as needed to fulfill graduation requirements)

Additional Requirements for Graduation

21st Century Life & Careers graduation requirement met through the completion of the program courses
Non-Program classes may be taken at any available level offered (e.g. Honors, Advanced Placement).
[1] - Financial Literacy or AP Microeconomics (2.5 credits)
[2] -Visual & Performing Arts
[3] - Advanced Placement course
Consult with your school counselor for more information about graduation requirements and schedule planning.

WEB DESIGN PATHWAY PROGRAM COURSE DESCRIPTIONS

10TH GRADE - HONORS WEB DESIGN
In this course, students learn the fundamentals of the internet, coding principals, Hypertext Markup Language (HTML) code and Cascading Styles Sheets (CSS) code to create and maintain static websites using current industry tools and emerging trends and technologies. Students create and publish static websites incorporating coding principles.

11TH GRADE - ADVANCED WEB DESIGN
In this course, students continue applying their knowledge and skills of HTML and CSS and learn the JavaScript programing language and learn programming problem solving skills and strategies to create interactive websites. Students create and publish dynamic websites. In addition, in this course, students begin Structured Learning Experience (SLE) by working with clients to build professional websites to specification.

12TH GRADE - NJIT IS 219 ADVANCED WEBSITE DEVELOPMENT
In this course, students learn the concepts and develop the skills required to plan, design and build advanced websites with a focus on sophisticated user interaction enabled by programming the web browser. Students continue participating in the Structured Learning Experience (SLE) by maintaining published websites for clients to specification.