

## COMPUTER SCIENCE & INFORMATION TECHNOLOGY

### Course Offerings/credit (Minimum of 3 courses)

<i>Digital Skills</i>	.5
<i>Web Page Design</i>	.5
<i>Digital Graphics</i>	.5
<i>Cyber Security</i>	.5
<i>Robotics</i>	1
<i>AP Computer Science Principles</i>	1

### Career Choices

- *Web Designer*
- *Digital Graphic Artist*
- *Programmer*
- *Information Technology Specialist*
- *Networking Technician*

### Learning Opportunities

- Partner with URI for credit
- AP text & credit
- CS4RI Summit
- Robotics Team

## PATHWAY DESCRIPTION

### Computer Science & Information Technology Pathway

The Computer Science & Information Technology Pathway emphasizes mastery of computing skills, including web design and coding, as well as examining the ethical and societal implications associated with how computing and connectivity are changing the world. Students will use those skills to ultimately create and present solutions for real world problems. Students in this pathway gain crucial industry and practical skills through hands-on assignments. Students may create web pages, manipulate digital images, code

in a variety of programming languages, discern trends and patterns in data, identify the mechanics of personal computers, and investigate computer networks and data security, and create mobile applications. Col-

lege credits through URI are available for some of the course in this pathway. through URI are available for some of the course in this pathway.



## PATHWAY REQUIREMENTS

Students interested in pursuing a pathway in this area should meet with their guidance counselor to select the best sequence of courses that will satisfy the North Smithfield High School graduation requirements and at the same time, meet the criteria

to receive a seal of concentration in computer science. Students will also develop an computer science/ information technology, related focus which will culminate in field experience for the required senior project.

It is recommended that students choosing this concentration, actively seek postsecondary schools to further their education in this field.