Sioux City
Community
Schools
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What does it take to reinvent the way mobile technology is used? Do you have what it takes to find out? If so, kick start your creative career and become a mobile app developer!

Pathway Description:

This 1-year regional pathway is designed to provide students the skills and knowledge required to design, develop, and deploy games and applications for one of the mobile devices platform (iOS, Android, or Windows Mobile) using current development tools and frameworks.

Key Competencies:

- Gain knowledge of Swift Language used to create iOS apps.
- Design, create, and debug programs using the Swift Language.
- Create a device composed of a Swift Server on a Raspberry Pi to monitor an electronic circuit.
- Recognize what makes a good user interface.
- Understand the techniques used to create the look and interactions of a user interface.
- Demonstrate the ability to recognize the fundamentals of two-dimensional design, three-dimensional design and composition, design problem solving, spatial orientation, and the organization of principles of design such as texture, line, shape, value, mass, and color theory.
- Understand topics such as game physics, game AI, Core Audio, 2D, 2.5D, and 3D animation with 3D audio, Bluetooth technologies, and head-to-head network gaming.

Courses (HS Credits):

9GG0A   Swift & The Internet of Things (2)
9GG1A   UI / UX Design (2)
9GG3B   Digital Art & 3D Design (2)
9GG2B   Game Development (2)

Total College Credits: 13

Annual National Average Salary for Entry Level App Developer: $62,800

Career Opportunities:

Applications Developer	Mobile Applications Developer
Mobile Game Developer	User Experience (UX) Designer
Project Manager	Software Developer

SIOUX CITY
CAREER
ACADEMY
Pathways to the future