

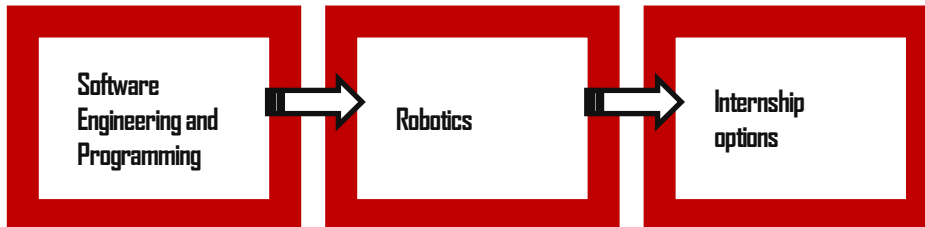
# ICT - Software and Systems Development



CHICO HIGH SCHOOL

2019—2020

## Robotics and Software Design Course Sequence



### Course Descriptions

#### Software Engineering and Programming:

Students learn the basics of **programming** using flow charts and story boarding. Students learn using programs such as Python, C# and Unity, Students are also introduced to **3D modeling** using Blender. This course is designed to introduce students to the many careers in the programming field. The course is articulated with Butte College as CSCI 4, Intro to Programming.

#### Robotics :

Students will **design and build a mobile robot to play a sport-like game**. During this process they will learn key STEAM principles, and robotic concepts, Including programming, and drone theory & design. Students are prepared for employment in fields related to and including robotics, engineering, automation, manufacturing, electronics, and computer science. Students at the end of the course can **test for certification as a FAA-recognized Drone Pilot**.

#### LOCAL POST-SECONDARY

##### OPTIONS:

Butte College

A.S. in Computer Science

CSU, Chico

B.S. in Computer Animation and Game Development

B.S. in Computer Engineering

B.S. in Computer Information Systems

#### HIGHLIGHTED CAREERS:

- Application Software Designer
- Web Developer
- Computer System Manager
- Computer Network Architect
- Computer Programmer
- Computer System Analyst
- Information Security Analyst
- Computer Graphics Designer
- Game Designer

#### Contact:

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Career and Technical Student Organization:



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Note: These templates are designed to help guide students. The order of some classes may vary and individual variation can be applied.