

Programs of Study

**Cluster: Architecture and Construction
Pathway: Design and Pre-Construction
Program of Study: Architectural CAD**

Level One	Level Two	Level Three
Drafting and Design (494700)	Architectural CAD I (494710)	Architectural CAD II (494720) Architectural CAD Lab (494720) Career Practicum (490690)
<u>Industry Recognized Credentials (IRC)</u>		

**Cluster: Architecture and Construction
Pathway: Design and Pre-Construction
Program of Study: Engineering CAD**

Level One	Level Two	Level Three
Drafting and Design (494700)	Engineering CAD I (494740)	Engineering CAD II (494760) Engineering CAD Lab (494750) Career Practicum (490690)
<u>Industry Recognized Credentials (IRC)</u>		

**Cluster: Health Sciences
Pathway: Biotechnology Research and Development
Program of Study: Biomedical Sciences**

Level One	Level Two	Level Three
Principles of Biomedical Sciences (PBS) (495000)	Human Body Systems (HBS) (495010)	Medical Interventions (MI) (495020) Career Practicum (490700)
Additional Courses: (Cannot Substitute for Level One, Two, or Three Courses) Biomedical Innovation (BI) (495030)		
<u>Industry Recognized Credentials (IRC)</u>		

Cluster: STEM (Science, Technology, Engineering, and Mathematics)
Pathway: Engineering and Technology
Program of Study: Pre-Engineering

Level One	Level Two	Level Three
Introduction to Engineering Design (IED) (495480) Or Engineering I (493960)	Principles of Engineering (POE) (495490) Or Engineering II (493970)	Aerospace Engineering (AE) (494980) Civil Engineering and Architecture (CEA) (495440) Computer Integrated Manufacturing (CIM) (495450) Digital Electronics (DE) (495460) Engineering Design & Development (EDD) (495470) Environmental Sustainability (ES) (495430) Engineering III (493980) Engineering Capstone (493990) Computer Science Year 2 or 3 Course Code Varies Career Practicum (490720)
Industry Recognized Credentials (IRC)		

Cluster: STEM (Science, Technology, Engineering, and Mathematics)
Pathway: Engineering and Technology
Program of Study: Unmanned Aerial Systems (UAS)

Level One	Level Two	Level Three
Unmanned Aerial Systems (UAS) I (490160)	Unmanned Aerial Systems (UAS) II (490170)	Unmanned Aerial Systems (UAS) III (490180) Unmanned Aerial Systems (UAS) Flex (490150) Aerospace Engineering (AE) (494980) Civil Engineering and Architecture (CEA) (495440) Computer Integrated Manufacturing (CIM) (495450) Digital Electronics (DE) (495460) Career Practicum (490720)
Industry Recognized Credentials (IRC)		

Cluster: STEM (Science, Technology, Engineering, and Mathematics)
Pathway: Engineering and Technology
Program of Study: Automation & Robotics Technology

Level One	Level Two	Level Three
Automation & Robotics Technology (490160)	Automation & Robotics Technology II (490170)	Automation & Robotics Technology III (490410) Career Practicum (490710)
Industry Recognized Credentials (IRC)		

Cluster: Information Technology
Pathway: Programming & Software Development
Program of Study: Computer Science

Level One	Level Two	Level Three
<p>Any Year 1, Year 2, or Year 3 Computer Science Course including:</p> <p>AI & Machine Learning: Y1:465410, Y2:465420, Y3:465430</p> <p>Computer Engineering: Y1:465470, Y2:465480, Y3:465490</p> <p>Cybersecurity: Y1:465270, Y2:465280, Y3:465290</p> <p>Data Science: Y1:465710, Y2:465720, Y3:465730</p> <p>Game Development & Design: Y1:465670, Y2:465680, Y3:465690</p> <p>Mobile Application Development: Y1:465370, Y2:465380, Y3:465390</p> <p>Networking: Y1:465170, Y2:465180, Y3:465190</p> <p>Programming: Y1:465070, Y2:465080, Y3:465090</p> <p>Robotics: Y1:465570, Y2:465580, Y3:465590</p> <p>AP Computer Science Principles: 565030</p> <p>AP Computer Science A: 565130</p> <p>IB Computer Science SL/HL: SL:565230, HL:565330</p> <p>CS Independent Study: 465930</p> <p>CS Internship: 465940</p> <p>CS Concurrent Credit: 565910, 565920, 565930, 565940, 565950, 565960, 565970, 565980, 565990</p> <p>CS Weighted Concurrent Credit: 565810, 565820, 565830, 565840, 565850, 565860, 565870, 565880, 565890</p> <p>CS Weighted Concurrent Credit: 565810, 565820, 565830, 565840, 565850, 565860, 565870, 565880, 565890</p>	<p>Any Year 2 or Year 3 Computer Science Course including:</p> <p>AI & Machine Learning: Y2:465420, Y3:465430</p> <p>Computer Engineering: Y2:465480, Y3:465490</p> <p>Cybersecurity: Y2:465280, Y3:465290</p> <p>Data Science: Y2:465720, Y3:465730</p> <p>Game Development & Design: Y2:465680, Y3:465690</p> <p>Mobile Application Development: Y2:465380, Y3:465390</p> <p>Networking: Y2:465180, Y3:465190</p> <p>Programming: Y2:465080, Y3:465090</p> <p>Robotics: Y2:465580, Y3:465590</p> <p>AP Computer Science A: 565130</p> <p>IB Computer Science SL/HL: SL:565230, HL:565330</p> <p>CS Independent Study: 465930</p> <p>CS Internship: 465940</p> <p>CS Concurrent Credit: 565910, 565920, 565930, 565940, 565950, 565960, 565970, 565980, 565990</p> <p>CS Weighted Concurrent Credit: 565810, 565820, 565830, 565840, 565850, 565860, 565870, 565880, 565890</p>	<p>Any Year 3 Computer Science Course including:</p> <p>AI & Machine Learning: Y3:465430</p> <p>Computer Engineering: Y3:465490</p> <p>Cybersecurity: Y3:465290</p> <p>Data Science: Y3:465730</p> <p>Game Development & Design: Y3:465690</p> <p>Mobile Application Development: Y3:465390</p> <p>Networking: Y3:465190</p> <p>Programming: Y3:465090</p> <p>Robotics: Y3:465590</p> <p>AP Computer Science A: 565130</p> <p>IB Computer Science SL/HL: SL:565230, HL:565330</p> <p>CS Independent Study: 465930</p> <p>CS Internship: 465940</p> <p>CS Concurrent Credit: 565910, 565920, 565930, 565940, 565950, 565960, 565970, 565980, 565990</p> <p>CS Weighted Concurrent Credit: 565810, 565820, 565830, 565840, 565850, 565860, 565870, 565880, 565890</p> <p>Career Practicum – CS: 465780, 465790, 465880, 465890</p>

Link to course names and standards for Computer Science courses: csforar.info/courses

Note: Students may not take a Year 1 course after taking a Year 2 course, or take a Year 1 or Year 2 course after completing a Year 3 course.

Industry Recognized Credentials (IRC)