

Certificate

Embedded Systems

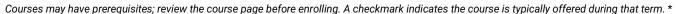
This program offers practical, hands-on experience in universal connectivity and embedded systems, allowing you to develop core design skills while creating function-specific computer and communication systems for leading companies in the Valley. The Embedded Systems program consists of three required courses and two to three elective courses.

Total Units: 14

Completion Time: 9-12 months (full-time)

Modality: Online, in person, or choose a mix of both.

Special Programs: F-1 Compliant and WIOA/TAA Funding Approved.



Required Courses

8 Units 3 Courses					
COURSE NAME & NUMBER	UNITS	FALL	WINTER	SPRING	SUMMER
Embedded System Hardware Architectures, Introduction EMBD.X415	3.0	~		~	
Embedded Firmware Essentials EMBD.X403	2.0		~		✓
Embedded Linux Design and Programming EMBD.X423	3.0		✓		✓

Elective Courses

6 Units | Choose 2 to 3 Courses

Embedded Software

Embedded contrare					
COURSE NAME & NUMBER	UNITS	FALL	WINTER	SPRING	SUMMER
Linux Systems Programming EMBD.X420	3.0	~		~	
Linux Kernel & Drivers EMBD.X421	3.0	~		~	
Linux Kernel & Drivers, Advanced EMBD.X422	3.0		~		✓
Real-Time Embedded Systems Programming, Introduction EMBD.X410	3.0		~		✓
The Internet of Things: Big Data Processing and Analytics EMBD.X412	3.0	~		✓	
Al-Driven Embedded Systems EMBD.X424	2.0	✓		~	

Embedded Hardware

COURSE NAME & NUMBER	UNITS	FALL	WINTER	SPRING	SUMMER
Wireless Infrastructure: from Antenna Design to 5G, Fundamentals EMBD.X419	3.0		✓		✓
IO Concepts and Protocols: PCI Express and Ethernet EMBD.X406	3.0	~		~	
Printed Circuit Board Design for Signal Integrity and EMC Compliance EMBD.X409	1.5	~		~	
Comprehensive Signal and Power Integrity for High-Speed Digital Systems EMBD.X400	3.0		✓		✓
High Efficiency Switch-mode Power Supply, Design Overview EMBD.X405	3.0		~		





Completion Review

Once all certificate requirements have been met and your final grades are posted, please access your Student Portal to enroll in the "Certificate Completion Fee" to begin the review process. Please allow 4-6 weeks to receive your certificate.

Note: You need a degree in a technical field or equivalent knowledge acquired through training and experience in system design and development. We recommend you have experience in C programming.