

SOFTWARE DEVELOPMENT - ADVANCED TECHNICAL CERTIFICATE (ATC)

Explore More About This Program: <https://cwi.edu/program/software-development>

Certificate Quick Facts

- **Instructional School:** Science, Technology, and Math
- **Department:** Computer Science
- **Program Code:** SWDV.ATC
- **Program Type:** Career and Technical Education
- **Available Fully Online:** No
- **Eligible for Federal Financial Aid:** Yes

NOTE: Courses required for this program *may* have an additional fee; more information can be found on the [Special Course Fees](#) web page.

Certificate Requirements

Course	Course Title	Min Credits
General Education Requirements		
Select one of the following:		
<u>GEM 1 - Written Communication course</u>		3
<u>GEM 2 - Oral Communication course</u>		
<u>GEM 3 - Mathematical Ways of Knowing course</u>		3
PSYC 140	Human Relations for Career and Personal Success (GEM 6)	3
Major Requirements		
CPSC 153	Navigating Computer Systems	1
CPSC 155	Introduction to Version Control	1
SWDV 105	Introduction to Programming	4
SWDV 110	Intermediate Programming	4
SWDV 116	Introduction to Web Application Development	3
SWDV 141	Intermediate Web Application Development	3
SWDV 152	Systems Analysis and Design	4
SWDV 210	Introduction to Server-Side Programming	4
SWDV 220	Fundamentals of Database Systems	4
SWDV 235	Advanced Web Application Development	4
SWDV 265	Mobile Development	4
SWDV 275	Software Development Tools and Technology	4
SWDV 278	Cloud Platforms and Services	4
SWDV 280	Collaborative Development	3
SWDV 290	Software Development Capstone Internship	1
Minimum Credit Hours Required		57