



**Web Application Programming Technology—Programming Emphasis  
Associate in Applied Science-Transfer  
101 credits**

The Associate in Applied Science (AAS) degree is a technical degree in web application programming technology prepares students for a career as a web developer. The degree provides an emphasis on either programming, mobile or web technologies.

Web application developers design, create, and test new applications, beginning by analyzing client or project requirements. During development they act as skilled problem solvers and clear communicators. Web application programmers work in cross-functional teams; design and create user interfaces; write client and server code conforming to industry standards; utilize development frameworks, web services, and databases; accurately estimate their time-on-task; manage their portion of a project; and clearly document their work.

Upon successful completion of this degree a student will be able to:

- Apply critical thinking and logical reasoning to design and technical problems in web development generally, with a focus on their area of emphasis
- Communicate effectively as web development professionals, interacting with clients and collaborating within development teams.
- Develop solid visual and logical design skills, paying close attention to detail, current standards, application usability, and security
- Design, produce, and test new web applications to be visually appealing and function effectively to meet users’ needs
- Assess and select application frameworks and development methodologies appropriate to the particular project scope

**Completion Requirements – Programming Emphasis**

The Programming Emphasis of the Web Application Programming Technology degree requires at least 101 credits in college level courses (numbered 100 or above), a minimum cumulative 2.0 grade point average, a minimum of 25 credits from Cascadia, and completion of all of the requirements for this degree. Students must complete and submit an application for graduation to Enrollment Services for review and approval before the degree is granted.

**GENERAL EDUCATION CORE REQUIREMENTS 10 CREDITS**

Course ID	Course Name	Lec	Lab	Other	Credits
ENGL&101	English Composition I	55			5.0
MATH&107, or MATH&141, or MATH&146, or MATH 147, or PHIL& 120	Math in Society, or Precalculus I, or Introduction to Statistics, or Business Precalculus, or Symbolic Logic	55			5.0

**HUMANITIES / SOCIAL SCIENCES REQUIREMENTS 15 CREDITS**

Course ID	Course Name	Lec	Lab	Other	Credits
BUS&101	Introduction to Business	55			5.0
CMST 105	Communication in Organizations	55			5.0
ANTH, ECON, GS, HIST, POLS, PSYC	GS designated Social Sciences course	55			5.0

**Web Application Programming Technology—Programming Emphasis (continued)**

**PROGRAM REQUIREMENTS 61 CREDITS**

Course ID	Course Name	Lec	Lab	Other	Credits
BIT 102	Networking Fundamentals	44	22		5.0
BIT 105	Careers in Professional Technology	22			2.0
BIT 112	Basics Of Web Authoring	55			5.0
BIT 113	User Interface Development	55			5.0
BIT 115	Intro To Programming	55			5.0
BIT 116	Scripting	55			5.0
BIT 142	Intermediate Programming	55			5.0
BIT 158	Beginning Database		22		1.0
BIT 159	Advanced Database		22		1.0
BIT 160	Digital Imaging		22		1.0
BIT 161	Vector Graphics		22		1.0
BIT 220	Elements Of Project Management	55			5.0
BIT 275	Database Design	55			5.0
BIT 276	Database Implementation	55			5.0
BIT 285	Application Programming	55			5.0
BIT 286	Web Applications	55			5.0

**PROGRAMMING EMPHASIS REQUIREMENTS 10 CREDITS**

Course ID	Course Name	Lec	Lab	Other	Credits
BIT 143	Programming Data Structures	55			5.0
BIT 265	Structures & Algorithms	55			5.0

**REQUIRED ELECTIVE CREDITS 5 CREDITS**

Students should choose a combination of the following variable credit courses for a total of five credits.

Course ID	Course Name	Lec	Lab	Other	Credits
BIT 197 or 297 BIT 199 or 299	BIT Work-based Learning I or II Service Learning in BIT I or II			55-275	5.0