Application Development AAS-T – 515
Requirements Effective Fall 2020
Program Planning Guide

Program Description: Take the first step to become an application developer. Graduates of the Application Development Associate of Applied Sciences (AAS-T) degree are dually prepared for both the workplace and to transfer into the Application Development Bachelor of Applied Science (BAS) Degree program. Learn beginning programming, software design, and software engineering skills so you can get an entry-level development job as you pursue your BAS degree.

Prerequisites: Many classes have prerequisites. Prerequisites are those classes that prove eligibility for entry-level classes by testing or by having satisfied prior course work. Course work earned at other institutions must be unofficially evaluated or approved by a program advisor before registering. Courses in this degree with pre-requisites are marked with an asterisk (*). See catalog for more information.

Application Development AAS-T Prerequisites: MATH098 (Intermediate Algebra), placement into ENGL&101.

Note: Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement.

Program Requirements		
Course Number	**General Education/Related Instruction Requirements (30 credits)**	**Credit Hours**
ENGL&101*	English Composition I	5
MATH&146*	Introduction to Statistics	5
HUM105	Intercultural Communication	5
PSYC&100*	General Psychology	5
US Cultures or Global Studies	Five credits must be selected from an approved list of US Culture or Global Studies courses. courses (see Note 1 on page 2)	5
Natural World Lab Science	Five credits must be selected from the list of approved Natural World lab science course (see Note 1 on page 2)	5
Course Number	**Degree Requirements (50 credits)**	
CSC110*	Introduction to Computer Programming	5
IT111	Programming Fundamentals	5
IT102 or IT121	Introduction to Programming or JavaScript 1	5
IT161	Web Authoring 1 (or previous course IT111 Internet and Web Authoring)	5
IT120*	CompTIA Network+	5
IT125	Structured @Query Language & Server SQL Server	5
IT115	Intro to Software Development and Versioning	5
IT135	Introduction to Linux	5
CSC142*	Computer Programming 1	5
IT112*	Web Programming with Python	5
Course Number	**Technical Electives (10 credits)**	
IT100, EET131, BUS169, CSC143, IT162, IT212, IT216, IT217, IT 261, IT262	See course list below.	10
		Total Credits: 90 (excluding pre-requisites)

Technical Electives

This requirement may be fulfilled from the following list of approved courses.

- IT100, Information Technology Fundamentals
- EET131, A+ Hardware
- BUS169, Using Computers in Business 1
- CSC143, Computer Programming 2 (Adv. Java)
- IT162, Web Authoring 2
- IT212, Data Structures and Algorithms with Java
- IT216, Android Application Development 1
- IT217, Android Application Development 1
- IT 261 Web App Programming 1
- IT 262 Web App Programming 2

Note 1:

Global Studies, US Cultures, and Natural World Lab Science

Courses currently approved to fulfill the Global Studies, US Cultures, and Natural World Lab Science requirement of the AA degree are on the link below. Please check with your advisor for recommendations and special conditions that may apply.

https://www.seattlecolleges.edu/sites/seattlecolleges.southseattle.edu/files/inline-files/college-transfer-AA-degree-requirements.pdf

Program Outcomes:

- Students will meet the prerequisite requirements for entry into the Bachelor of Applied Science Degree in Application Development
- Students will apply scientific or technical knowledge in order to understand issues, solve problems, and engage in useful and responsible practices in computer programming
- Create, debug, and manage software applications
- Develop and test full stack web applications
- Share code and function effectively as a member of a team

What Skills do I need to be successful in this field?

- http://www.onetonline.org/link/summary/15-1132.00

What are some potential job titles?

- Software Developers
- Web Developers
- Software Quality Assurance Engineers and Testers

Wages, employment trends and pathways

- http://www.onetonline.org/link/summary/15-1132.00

Suggested Course Sequence: This program of study is outlined by quarter, and courses should be taken in the indicated sequence. However, it should not be concluded that students will always proceed through their program of study exactly as prescribed here. The number of quarters listed here is minimal. Not all courses are offered every quarter. Individual student experiences, educational and training background, and personal schedules and demands all may affect the time it takes to finish this program. Also, in general, summer quarter is not considered one of the full-time quarters in the program.

- **1st quarter**: IT115, MATH&146, IT120
- **2nd quarter**: IT161, IT135, ENG&101
- **3rd quarter**: IT125, PSYC&101, HUM105
- **4th quarter**: IT111, US Cultures or Global Studies elective, Natural World lab science elective
- **5th quarter**: CSC110, IT102, technical elective
- **6th quarter**: CSC142, IT112, technical elective

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Program Website:	https://northseattle.edu/degrees/application-development-aas-t		