

# Bachelor of Applied Science (BAS) in Application Development (Part-Time)

## Science, Technology, Engineering, & Mathematics (STEM)



### Suggested Schedule to Bachelor of Applied Science (BAS) in Application Development

This pathway meets requirements for the Bachelor of Applied Science (BAS) degree in Application Development. This sample schedule assumes a fall start. If you wish to take alternate courses not listed below please meet with a North advisor to confirm you're still meeting BAS degree requirements.

#### Before You Start

- ☐ Any Associate degree or 90 credits with a 2.5 GPA or higher.
- ☐ A 2.5 or higher in the following pre-requisite classes:
- ☐ CSC 110 Intro to Computer Programming
- ☐ CSC 142 Computer Programming I
- ☐ IT 102 Introduction to Programming
- ☐ IT 161 Web Authoring I
- ☐ IT 135 Introduction to Linux
- ☐ IT 125 Using SQL and SQL Server
- ☐ ENGL& 101 English Composition I
- ☐ MATH& 141 Precalculus I
- ☐ MATH& 146 Intro to Statistics
- ☐ MATH& 142 Precalculus II (Highly recommended)
- ☐ MATH& 151 Calculus I (Highly recommended)

#### To Do

- ☐ Contact BAS Program manager and apply to Application Development BAS.
- ☐ Apply for Financial Aid and other funding before your first quarter. Visit the Financial Aid Office to explore how to pay for college.
- ☐ Transfer previous college credits to [North](#).
- ☐ Explore placement options: take the Math and English placement tests if needed.
- ☐ Attend New Student Orientation.
- ☐ Explore Prior Learning Assessment (PLA) options if you have significant professional industry training.
- ☐ Visit [startnextquarter.org](#) to find out if Workforce Education funding is available for you.

#### Year One

#### Credits

##### Quarter 1

- ☐ AD 300 Component Software or  
CSC 143 Computer Programming II ..... 5
- ☐ AD 400 Proj. Mgmt in Software Development ..... 5

##### Quarter 2

- ☐ AD 320 Web Application Development ..... 5
- ☐ AD 325 Data Structure & Algorithms ..... 5

##### Quarter 3

- ☐ 100/200 general education or elective requirement\*\* .5
- ☐ AD 410 Web Application Practicum ..... 5

#### Year Two

##### Quarter 4

- ☐ AD 420 Cloud Computing-Software as Services ..... 5
- ☐ 100/200 general education or elective requirement\*\* .5

##### Quarter 5

- ☐ AD 350 Database Technology ..... 5
- ☐ AD 440 Cloud Computing Practicum ..... 5

##### Quarter 6

- ☐ AD 315 Discrete Math in Computer Programming ..... 5
- ☐ AD 340 Mobile Application Development ..... 5

#### Quarter 1

- ☐ Attend Application Development BAS (AD BAS) program orientation.
- ☐ [Schedule an appointment with your program manager](#) to meet and discuss your goals.
- ☐ Meet with Internship and Employment Coordinator about career related goals.
- ☐ Drop by the [Library](#) to get help with research; check out resources; access computers and study space; and create media projects.
- ☐ Visit the Student Learning Center to learn about tutoring services offered in-person and online.
- ☐ Check out campus life: student clubs, Equity & Welcome Center, Fitness Center, etc.
- ☐ Attend the STEM and Career Fair to learn about job opportunities.
- ☐ Attend meetup set up by AD BAS program.

#### Quarter 2

- ☐ Create an educational plan with your BAS program manager.
- ☐ Apply for financial aid for the upcoming academic year in Winter or Spring quarter to maximize your funding options.
- ☐ Attend meetup set up by AD BAS program.

#### Quarter 3

- ☐ Apply for the Seattle Colleges Foundation Scholarship and other scholarships.
- ☐ Consider Student Leadership positions and other on-campus jobs.
- ☐ Attend "Making Learning and Teaching Visible" campus event every spring.

#### Quarter 4

- ☐ Update your educational plan with your BAS program manager.
- ☐ Update your resume for job search and attend an interview prep workshop.
- ☐ Meet with Internship and Employment Coordinator.
- ☐ Create a LinkedIn profile and clean up your online presence.
- ☐ Attend meetup set up by AD BAS program.

#### Quarter 5

- ☐ Attend transfer fair and workshops.
- ☐ Attend meetup set up by AD BAS program.
- ☐ Apply for financial aid for the upcoming academic year in Winter or Spring quarter to maximize your funding options.

#### Quarter 6

- ☐ Add your classmates on LinkedIn to grow your network and keep in touch.
- ☐ Apply for summer internships and research capstone project ideas.



## Year Three

### Quarter 7

- ☐ 100/200 general education or elective requirement\*\*.5
- ☐ AD 430 Mobile Application Practicum.....5

### Quarter 8

- ☐ AD 450 Data Science Development.....5
- ☐ 100/200 general education or elective requirement\*\*.5

### Quarter 9

- ☐ AD 470 Data Science Practicum .....5
- ☐ AD 490 Internship/Capstone Project .....5

**Total Credits Required: 90**

### Quarter 7

- ☐ Meet with program manager to discuss graduation requirements.
- ☐ Attend meetup set up by AD BAS program.
- ☐ Attend the STEM and Career Fair to learn about job opportunities.

### Quarter 8

- ☐ Research future employment and master's degree options.
- ☐ Attend technical job hunt workshop.
- ☐ Apply for graduation for the BAS degree with your BAS program manager.
- ☐ Ensure all Academic Exception paperwork is submitted (such as course substitutions, transfer credit, and PLA) as needed.
- ☐ Attend meetup set up by AD BAS program.

### Quarter 9

- ☐ Order cap and gown for commencement and join alumni association.
- ☐ Attend on-campus graduation fair and commencement ceremony.
- ☐ Add your classmates on LinkedIn to grow your network and keep in touch.
- ☐ Attend required capstone showcase.



### About the Associate of Science Option I Map

This pathway meets requirements for the Application Development Bachelor of Applied Science (BAS) degree. Completion of this degree prepares students for jobs in entry-level software developing, mobile developing, software developer in test positions, quality engineering positions, software engineer positions and more. The AD program incorporates hands-on learning and consists of four development and practicum tracks, which are web applications, mobile application development, data science and cloud computing - software as a service.

Students in this pathway develop skills in software components, foundational data structures, discrete math, and programming languages (HTML, Javascript, Python, and Java). Students also develop technical skills in web application development, database management, mobile development, data science and cloud computing (AWS and Azure). Other transferrable skills include verbal communication, project management, technical job hunting, group communication and collaboration, and analysis and research. Competencies in these areas consistently rank at the top of employer wish lists.

The AD program consists of 70 upper division credits and students are encouraged to look into and apply for the program once they are near their associate degree completion or have close to 90 college level credits. This is a two year full-time program or a 3-year part-time program, which will result in a regionally accredited bachelor's degree.

### Career Opportunities

- Mobile Application Developer
- Project Manager
- Software Analyst
- Software Developer
- Software Engineer / Site Reliability Engineer
- Software Quality Assurance Engineer and Tester / SDET
- Web Application Developer
- Programmer
- DevOps Engineer
- Data Scientist
- Software Developer in Test
- Quality (Control) Assurance
- Data Analyst

For current employment and wage estimates, please visit the following online resources and search for the relevant occupational term:

Local Occupational Information from the Workforce Development Council of Seattle–King County

National Occupational Information from the O\*Net Resource Center (to simply enter a search term, visit O\*Net's keyword search tool).

### Approximate Costs Each Quarter

<https://webshares.seattlecolleges.edu/webshares/financialaid/Cost%20of%20Attendance.pdf>

### Apply for Financial Aid and Other Funding

All students in need should apply for financial aid – do not assume you are not eligible! Visit <https://northseattle.edu/financial-aid> to learn more about the application steps and types of financial aid available, including grants and scholarships you don't have to pay back. Take the Start Next Quarter survey to find out if you are eligible for workforce education funding.

Some students may be eligible for Workforce Education tuition assistance programs depending on program of study, family income and family size, DSHS assistance, unemployment/employment status of self or spouse, or veteran status. Take this short survey to find out if you pre-qualify for funding at: [www.StartNextQuarter.org](http://www.StartNextQuarter.org).

### Class Times/Delivery Format?

North offers BAS classes hybrid (part on-campus, part online) Monday through Thursday. Check the class schedule for the latest offerings.

### Find Out More

Visit <https://northseattle.edu/programs/information-technology/application-development-bachelor-applied-science-bas-degree> to learn more about this pathway, or contact the BAS Application Development program manager at [adbinfo@seattlecolleges.edu](mailto:adbinfo@seattlecolleges.edu) or [206-934-7025](tel:206-934-7025).

### Length of Program

90 credits from AAS-T in Application Development + 90 credits from Application Development BAS pathway = 180 total credits required for graduation. If you have more than 90 credits prior to beginning the BAS pathway, you may need only need 70 core credits. See program manager for your educational plan.

The part-time Application Development BAS pathway takes 9 quarters to complete assuming students are taking 10 credits per quarter.

### Which quarter can I begin?

Any.

### Future Education Opportunities

Once you complete the BAS degree, additional education opportunities include:

- Amazon Based Web Services (AWS) certificates
- A Master's degree in Computer Science or related fields

Program and admissions requirements vary from college-to-college. Contact an advisor to create an educational plan tailored to transfer to the institution of your choice.