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 111 Programming Fundamentals
  - IT 125 Using SQL and SQL Server
  - ENGL & 101 English Composition I
  - MATH & 141 Precalculus I
  - MATH & 146 Intro to Statistics
  - MATH & 142 (Highly recommended) Precalculus II
  - MATH & 151 (Highly recommended) Calculus I

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

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Year One</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>AD 300 Component Software or CSC 143 Computer Programming II .............................. 5</td>
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<tr>
<td></td>
<td>AD 400 Proj. Mgmt in Software Development ...................................................... 5</td>
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<td></td>
<td>100/200 general education or elective requirement** .................................................. 5</td>
</tr>
<tr>
<td>2</td>
<td>AD 320 Web Application Development ................................................................. 5</td>
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<tr>
<td></td>
<td>AD 325 Data Structure &amp; Algorithms ................................................................. 5</td>
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<td></td>
<td>AD 350 Database Technology .................................................................................... 5</td>
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<tr>
<td>3</td>
<td>AD 315 Discrete Math in Computer Programming ....................................................... 5</td>
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<td></td>
<td>AD 340 Mobile Application Development ............................................................... 5</td>
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<td></td>
<td>AD 410 Web Application Practicum ........................................................................ 5</td>
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Year Two

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Credits</th>
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<tr>
<td>4</td>
<td>AD 420 Cloud Computing-Software as Services ......................................................... 5</td>
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<tr>
<td></td>
<td>AD 430 Mobile Application Practicum ....................................................................... 5</td>
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<td>100/200 general education or elective requirement** .................................................. 5</td>
</tr>
<tr>
<td>5</td>
<td>AD 440 Cloud Computing Practicum .......................................................................... 5</td>
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<td></td>
<td>AD 450 Data Science Development ........................................................................... 5</td>
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<td>100/200 general education or elective requirement** .................................................. 5</td>
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<td>6</td>
<td>AD 470 Data Science Practicum ................................................................................ 5</td>
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<tr>
<td></td>
<td>AD 490 Internship/Capstone Project ......................................................................... 5</td>
</tr>
<tr>
<td></td>
<td>100/200 general education or elective requirement** .................................................. 5</td>
</tr>
</tbody>
</table>

Total Credits Required: 90
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.

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 adbas-info@seattlecolleges.edu or 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.