

**Waubonsee Community College and Aurora University**  
 Associate in Applied Science Degree: Computer Software Development  
 Bachelor of Science Degree: Computer Science

Semester 1 at WCC	AU Equivalent	Semester 2 at WCC	AU Equivalent
<b>BUS 100</b> Introduction to Business (3) <b>CIS 110</b> Business Information Sys. (3) <b>ECN</b> Elective (3) <b>ENG 101</b> First-Year Composition I (3) <b>MTH 109</b> Algebra for Bus. and Soc. Sci or <b>MTH 129</b> Precalculus I (3)	<b>BUS 1XXX</b> Elective  <b>CSC 1XXX</b> Elective  <b>ECN</b> Elective <b>ENG 1000</b> Intro to Academic Writing <b>MTH 1100</b> College Algebra	<b>CIS 115</b> Introduction to Programming (3) <b>CIS 116</b> Dev Tools/Structured Program Design (3) <b>CIS 118</b> Information Technician Proficiency (3) <b>ENG 102</b> First-Year Composition II (3) <b>WEB 110</b> Web Development with HTML (3)	<b>CSC 1XXX</b> Elective  <b>CSC 1XXX</b> Elective  <b>CSC 1XXX</b> Elective  <b>ENG 1XXX</b> Elective  <b>CSC 1XXX</b> Elective
Semester 3 at WCC	AU Equivalent	Semester 4 at WCC	AU Equivalent
<b>CIS 122</b> Networking Essentials (3) <b>COM 100</b> Fundamentals of Speech Communication (3) <b>CIS 130</b> or <b>CIS 150</b> Computer Science I (C++ or Java) (3) <b>CIS 202</b> Database Mgmt. (3) <b>Elective*</b> (3)	<b>CSC 1XXX</b> Elective  <b>COM 1XXX</b> Elective  <b>CSC 1700</b> Intro to Computer Programming <b>CSC 2XXX</b> Elective <b>Elective</b>	<b>CIS 180</b> Linux Operating System (3) <b>CIS 205</b> information Technology Project Mgmt. (3) <b>CIS 230</b> or <b>CIS 250</b> Computer Science II (C++ or Java) (3) <b>Electives*</b> (6)	<b>CSC 1XXX</b> Elective  <b>BUS 2XXX</b> Elective  <b>CSC 2150</b> Data Structures and Algorithms <b>Electives</b>

\* See elective list for the AAS Computer Software Development degree.

**Third and Fourth Year at Aurora University**

Students complete coursework for either the Information Technology or Software Engineering track for the Computer Science major.

**Computer Science BS: Information Technology Track**

Semester 5 at Aurora University (12.5 hours)	Semester 6 at Aurora University (16.5 hours)
<b>IDS 3500</b> Junior Mentoring (.5) <b>CSC 2200</b> Web Application Development (4) <b>CSC 2300</b> Computer Architecture (4) <b>MTH 2320</b> Gen. Statistics (4)	<b>IDS 3550</b> Junior Mentoring (.5) <b>CSC 2450</b> Operating Systems Administration (4) <b>CSC 3350</b> Networks and Security (4) <b>MTH 3270</b> Discrete Mathematics (4) <b>Artistic Literacy Gen Ed or Elective*</b> (4)
Semester 7 at Aurora University (16 hours)	Semester 8 at Aurora University (16 hours)
<b>CYB 4620</b> Digital Forensics (4) <----- OR -----> <b>CSC 3400</b> Computer Security (4) <b>CSC 4500</b> Database Design and Implementation (4) <b>Cultural Literacy Gen Ed or Elective*</b> (4-8)	<b>CYB 4610</b> Ethical Hacking (4) <b>CSC 4990</b> Computer Science and Engineering Capstone (4) <b>Human Inquiry Gen Ed or Elective*</b> (4) <b>Scientific Inquiry Gen Ed or Elective*</b> (4-8)

**Computer Science BS: Software Engineering Track**

Semester 5 at Aurora University (12.5 hours)	Semester 6 at Aurora University (16.5 hours)
<b>IDS 3500</b> Junior Mentoring (.5) <b>CSC 2200</b> Web Application Development (4) <b>CSC 2300</b> Computer Architecture (4) <b>CSC 3250</b> Object-oriented Soft. Des. & Dev. (4)	<b>IDS 3550</b> Junior Mentoring (.5) <b>CSC 3510</b> Software Test., Ver., Val. & QA (4) <b>MTH 3270</b> Discrete Mathematics (4) <b>Artistic Literacy Gen Ed or Electives*</b> (8)
Semester 7 at Aurora University (16 hours)	Semester 8 at Aurora University (16 hours)
<b>CSC 3700</b> Advanced Web App Development (4) <b>CSC 4500</b> Database Design and Implementation (4) <b>Scientific Inquiry and Cultural Literacy Gen Ed, or Electives*</b> (8)	<b>CSC 4990</b> Computer Science and Engineering Capstone (4) <b>CSC 4400</b> Programming Languages (4) <b>Human Inquiry Gen Ed or Electives*</b> (8)

\*Electives may be used to reach required credits for graduation. Total hours must equal 120 or higher with a minimum cumulative GPA of 2.0/4.0. **A minimum of 30 hours must be 3000 level or higher of which at least 15 must be within the major.** A grade of C or higher is required in all general education and major coursework.