

COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
COLLEGE OF LETTERS & SCIENCES
BA/BS (Units vary by emphasis)

MATH 152/Elementary Functions (5 units), *Pre-req: MATH 141 (C or better)*

COMPUTER SCIENCE CORE

COMPSCI 172 Intro. to JAVA (3 units), *pre-req: CompSci 170 or CompSci 171 or MATH 152 with a grade of C or better, or MATH 143 with a grade of C or better, or Calculus placement, or consent of instructor.* Student must receive permission from the depart. if only CompSci 170 or 171 is completed.

-OR-

COMPSCI 174 Intro. to C++ (3 units), *pre-req: CompSci 170 or CompSci 171 or MATH 152 with a grade of C or better, or MATH 143 with a grade of C or better, or Calculus placement, or consent of instructor.* Student must receive permission from the depart. if only CompSci 170 or 171 is completed.

COMPSCI 220 Intermediate Java (3 units), *pre-req COMPSCI 172 or (COMPSCI 174 and consent of instructor)*

-OR-

COMPSCI 222 Intermediate C++ (3 units), *pre-req COMPSCI 174 or (COMPSCI 172 and consent of instructor)*

COMPSCI 223 Data Structures (3 units), *pre-req: COMPSCI 220 with a grade of C or better or COMPSCI 222 with a grade of C or better (TWO SECTIONS OFFERED. Click class #/Section in WINS to view the two programming language options: C++ or Java)*

COMPSCI 271 Assembly Programming (3 units), *pre-req: COMPSCI 172 or COMPSCI 174*

AREAS OF SPECIALIZATION: Every major must complete the CORE and the additional required courses in **two selected areas of specialization and two courses from each area.** We do not declare the area(s) of specialization.

Note: Unique requirement courses do not count in the major credit total and are not used to compute the major GPA.

NETWORKING AND SYSTEMS

COMPUTER SCIENCE FUNDAMENTALS

WEB TECHNIQUES

APPLIED COMPUTING

UNIQUE REQUIREMENTS

MATH 253 Calculus and Analytical Geometry I (5 units), *Pre-req: MATH 152 with a grade of C or better (Math 250 is an acceptable alternative to Math 253 for Computer Science majors who transferred in Math 250 or changed from a different major. This should not be promoted to current Computer Science majors This would need to be personalized.)*

MATH 280 Discrete Mathematics (3 units), *Pre-req: MATH 250 with a grade of B or better or MATH 253 with a grade of C or better*

-OR-

COMPSCI 215 Discrete Structures, *Pre-req: MATH 152, MATH 243 or MATH 250 (any non-failing grade is ok).*

ENGLISH 370 Advanced Composition or ENGLISH 372 Scientific and Technical Writing (3 units), *Pre-req: ENGLISH 102*

Important Facts:

• Two emphasis areas:

1. Computer Science-General Emphasis (minor required). The Computer Science – General emphasis is more appropriate for students who want to work for a smaller company and want a minor of their choice.

2. Computer Science-Comprehensive Emphasis (no minor required). The Computer Science – Comprehensive emphasis is more appropriate for students who want to work with a larger company (ex: EPIC). Students will need to complete two courses from the same discipline from the list below (In addition to these courses, students will need one more GL from a different discipline).

1. BIOLOGY 141*, BIOLOGY 142 2. CHEM 102, CHEM 104 3. PHYSICS 140, PHYSICS 141 4. PHYSICS 180, PHYSICS 181
* Non-Biology majors need dept. permission to take BIOLOGY 141 in fall semesters. Contact the Biological Sciences department office.

- Students should begin taking math courses immediately and continue without break until these requirements have been met.
- Students with extensive programming experience may have COMPSCI 172 or COMPSCI 174 waived. Contact the Computer Science Chair.
- Students interested in developing web and graphical applications should enroll in the Java sequence (COMPSCI 172, COMPSCI 220, COMPSCI 223) and those interested in scientific programming and game development should enroll in the C++ sequence (COMPSCI 174, COMPSCI 222, COMPSCI 223).

Career Options: Programmer, Software Engineer, Data Processing, Computer Science Teacher

Contact Information: Computer Science: Dr. Athula Gunawardena, Chair, Phone: (262) 472-1469, Office: MG 110, e-mail: gunawara@uww.edu

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Note: This is intended to be a guide and is not a binding document. Students have the ultimate responsibility to use their Academic Advisement Report (AAR) for monitoring their course of study.