



COLLEGE OF LETTERS AND SCIENCES Major Planning Guide
COMPUTER SCIENCE, Bachelor of Science - minor required
 (Beginning with COMPSCI 171 and MATH 152)

The Major Planning Guide is a sample program which illustrates the type of curriculum a new freshman will take to complete the degree in 4 years; it is not an official document. Refer to the Academic Advising Report (AAR) for full requirements. Sample Advising Reports are available on-line <http://www.uww.edu/registrar/sample-aars-and-ars/sample-aars-undergraduate>

All students must complete a minimum of 120 credits including:

- 1) At least 32 units of general education, including specific Gen Ed core courses, as well as approved math and science, physical education, and elective courses. Your general education electives must come from the following categories: GA, GS, GH, GE, or GI.
- 2) All requirements for the BA or BS Degree.
- 3) All requirements for the major and minor (if required).

* Test scores determine placement into Math and English courses. Refer to your AAR for this information and then adjust this schedule accordingly. Math 152 is not required for students with Calculus Placement. CompSci 171 can be waived for students with previous programming experience. The Planning Guide begins with the most common placement for this major.

The Bachelor of Science requires two lab sciences **and 5 credits of advanced math or two 3 credit courses chosen from advanced math, statistics or computer science. This Planning sheet will use Math 152 Elementary Functions for the math requirement.

Courses in **bold** typeface indicate specific courses that must be completed for the major. Other courses such as GenEd Courses or major/minor electives can be selected from a number of course choices.

Freshman Year	
English 101* Freshman English—3 units	English 102* Freshman English—3 units
CompSci 171* Introduction to Programming – 3 units	CompSci 172 Intro to Java or CompSci 174 Intro to C++ – 3 units
Math 152* Elementary Functions —5 units	Math 253 Calculus with Analytic Geometry I – 5 units
Lab Science (GL) – 4-5 units	GenEd 130 Individual and Society—3 units
Intra-university 104 New Student Seminar—1 unit	PE General 192 Personal Health—1 unit
Semester 1: 16-17 units	Semester 2: 15 units
Sophomore Year	
CompSci 220 Intermed Java or CompSci 222 Intermed C++ – 3 units	CompSci 223 Data Structures – 3 units
CompSci 271 Assembly Programming – 3 units	CompSci 412 Computer Organization – 3 units
CompSci 215 Discrete Structures or Math 280 Discrete Math – 3 units	GenEd 120 Historical Perspectives or 140 Global Perspectives—3 units
GenEd 110 World of the Arts—3 units	Comm 110 Intro. to Human Communication—3 units
Minor Course—3 units	Minor Course—3 units
Semester 1: 15 units	Semester 2: 15 units
Junior Year	
CompSci 433 Algorithms or CS Emphasis Course or CS Elective – 3 units	CS Emphasis Course or CS Elective – 3 units
CS Emphasis Course or CS Elective – 3 units	General Ed elective (GA, GE, GH, GI, or GS) —3 units
Lab Science (GL)**—4-5 units	English 370 Adv Comp or English 372 Tech & Scientific Writing – 3 units
GenEd 390 World of Ideas—3 units	Minor Course—3 units
Minor Course—3 units	Minor Course—3 units
Semester1: 16-17 units	Semester 2: 15 units
Senior Year	
CompSci 433 Algorithms or CS Emphasis Course or CS Elective – 3 units	CS Emphasis Course or CS Elective – 3 units
CompSci 476 Software Engineering – 3 units	General Ed elective (GA, GE, GH, GI, or GS) —4 units
CS Emphasis Course or CS Elective – 3 units	Minor Course—3 units
Minor Course—3 units	Minor Course—3 units
U.S. Racial and Ethnic Diversity Course – 3 units	
Semester 1: 15 units	Semester2: 13 units

Department Website: http://cs.uww.edu/?page_id=1434