Sample 4 Year Plan (Fall 2015 Requirements)
Computer Science, Comprehensive Emphasis
Bachelor of Science, COLLEGE OF LETTERS AND SCIENCES

The 4 year Plan **illustrates the type of curriculum a new freshman** would take to complete a degree in 4 years; it is not an official document. Refer to Academic Advising Report for full requirements. Sample Academic Advising Reports are available on-line at http://www.uww.edu/registrar/sample-aars-and-ars/sample-aars-undergraduate.

1st Semester	Units	2nd Semester	Units
English 101 Freshman English	3	English 102 Freshman English	3
CompSci 170 Intro to Python Programming OR CompSci 171 Intro to VB Programming	**3**	**CompSci 172 Intro to Java OR CompSci 174 Intro to C++**	**3**
Math 152 Elementary Functions	**5**	**Math 253 Calculus & Analytical Geometry I**	**5**
GENED Core	3	GENED Core	3
Intrauniversity 104 New Student Seminar (Recommended)	1	Comm 110 Intro to Human Communication	3
Semester Total	15	Semester Total	17
3rd Semester	**Units**	**4th Semester**	**Units**
CompSci 220 Intermed Java OR CompSci 222 Intermed C++	**3**	**CompSci 223 Data Structures**	**3**
CompSci 215 Discrete Structures OR Math 280 Discrete Math	**3**	**CompSci 271 Assembly Programming**	**3**
Biology 141 OR Chemistry 102 OR Physics 140 OR Physics 180	**5**	**Biology 142 OR Chemistry 104 OR Physics 141 OR Physics 181**	**5**
GENED Core	3	**LibSt 350 Tech & Social Responsibility OR Intrauniversity 246 Business Ethics OR Philosophy 245 Contemporary Moral Issues**	**3**
PEGNRL 192 Personal Health & Fitness	1		
Semester Total	15	Semester Total	14
5th Semester	**Units**	**6th Semester**	**Units**
CompSci 320 Concepts of Programming Languages	**3**	**CompSci 424 Operating Systems**	**3**
CompSci 366 Database Management Systems	**3**	**Computer Science Emphasis Course**	**3**
CompSci 412 Computer Organization	**3**	**Math 355 Linear Algebra**	**3**
English 370 Advanced Composition OR English 372 Technical & Scientific Writing	**3**	Gened 390 World of Ideas	3
Lab Science	4-5	General Ed Elective	3
Semester Total	16-17	Semester Total	15
7th Semester	**Units**	**8th Semester**	**Units**
CompSci 433 Algorithms	**3**	**CompSci 434 Theory of Computation**	**3**
Computer Science Emphasis Course	**3**	**CompSci 476 Software Engineering**	**3**
Computer Science Emphasis Course	**3**	**Computer Science Emphasis Course**	**3**
Math 342 Applied Statistics	3	Elective Course	3
U.S. Racial & Ethnic Diversity Course	3		
Semester Total	15	Semester Total	12

Department Website: http://cs.uww.edu/?page_id=6

Transfer students **may have different general education requirements than those listed. Refer to your Advising Report for requirements specific to you.**

General Degree Notes

You must begin your Math and English sequences with the appropriate course. The English course you start with will be determined by your ACT/SAT score. The Math course you start with will be determined by your UW Math Placement score. Please refer to your Academic Advising Report and adjust the sample 4 year plan accordingly.

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).

College of Letters and Sciences Degree Notes

This plan includes Bachelor of Science (BS) requirements. For the BS, students must complete two lab sciences **and** 5 credits of advanced math or two 3 credit courses chosen from advanced math, statistics or computer science instead of the BA requirements.

The Bachelor of Arts (BA) degree is not available with this emphasis. Students who prefer a BA degree with a Computer Science major should choose the General Emphasis.

Major Notes

The Planning Guide begins with the most common placement for this major but students who place lower may need additional math credits.

Students cannot take Computer Science courses numbered 170 or higher until they pass Math 141 Fundamentals of College Algebra or they have been placed into a more advanced mathematics course (Math 143, 152, or 253).

Math 152 is not required for students with Calculus Placement. CompSci 170 or 171 can be waived for students with previous programming experience or Calculus Placement.

Courses in **bold** typeface indicate specific courses that must be completed for the major.