

**Mathematics, Bachelor of Science  
Computer Math Emphasis  
(Fall 2010 Requirements)**

\*Not an official document. Refer to Advising Report for full requirements.  
Sample Advising Reports available on-line <http://www.uww.edu/registrar/ars/index.html>

Major Planning Guides are sample programs which illustrate the type of curriculum a student will take to complete the degree in 4 years.

All students must complete a minimum of 120 credits including

- 1) at least 32 units of general education, including specific Gened courses, as well as approved math and science, physical education and elective courses
- 2) requirements for the BA or BS Degree,
- 3) requirements for the major and for the minor if required.

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

Courses in red 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	
Semester I	Semester II
English 101* Freshman English—3 units	English 102* Freshman English—3 units
Math 152 Elementary Functions —5 units	Math 253 Calculus with Analytic Geometry I — 5 units
Lab Science (GL) —4-5 units	Lab Science for BS*—4-5 units
Gened 130 Individual and Society—3 units	Gened 120 Historical Perspectives or 140 Global Perspectives—3 units
Intra-university 104 New Student Seminar—1 unit	PE General 192 Personal Health—1 unit
<b>16-17 units</b>	<b>16-17 units</b>

Sophomore Year	
Semester I	Semester II
Math 254 Calculus with Analytic Geometry II — 5 units	Math 255 Calculus with Analytic Geometry III — 3 units
Math 280 Discrete Mathematics — 3 units	Math 355 Matrices & Linear Algebra — 3 units
CompSci 172 Intro to Programming — 3 units	CompSci 271 Assembly Programming — 3 units
Gened 110 World of the Arts—3 units	Comm 110 Introduction to Human Communication—3 units
Minor Course—3 units	Minor Course—3 units
<b>17 units</b>	<b>15 units</b>

Junior Year	
Semester I	Semester II
Math 301 Introduction to Analysis — 3 units	Math 452 Introduction to Abstract Algebra — 3 units
CompSci 433 or Math 471 Numerical Analysis — 3 units	CompSci 322 Computer Languages & Compilers or CompSci 434 — 3 units
MCS 231 Concepts of Data Structures — 3 units	English 370 Adv Comp or English 372 Tech & Scientific Writing — 3 units
Gened 390 World of Ideas—3 units	General Ed elective (GA, GE, GH, GI, or GS) —3 units
Minor Course—3 units	Minor Course—3 units
<b>15 units</b>	<b>15 units</b>

Senior Year	
Semester I	Semester II
Math 471 Numerical Analysis or CompSci 433 — 3 units	CompSci 434 Theory of Computation or CompSci 322 — 3 units
General Ed elective (GA, GE, GH, GI, or GS) —3 units	General Ed elective (GA, GE, GH, GI, or GS) —4 unit
Diversity Course — 3 units	Minor Course — 3 units
Minor Course—3 units	Minor Course—3 units
Minor Course—3 units	Elective — 3 units
<b>15 units</b>	<b>16 units</b>

Department Website: <http://math.uww.edu/>

Color Key: Green = College Requirement; Purple = General Education Course; Red = Major Course; Brown = Unique Requirement or Pre-requisite Course for Major