

**COLLEGE OF LETTERS AND SCIENCES Major Planning Guide**  
**MATHEMATICS - PURE MATH EMPHASIS, Bachelor of Arts – minor required**

\*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

\* ACT/SAT scores determine which Math and English course is appropriate for you. Refer to your AR for this information and then adjust this schedule accordingly. The Planning Guide begins with the most common placement for this major.

\*\* The Bachelor of Arts degree in Letters and Sciences requires one year of college level foreign language or waiver (waivers for French German, and Spanish are determined by scores on the UW-System placement tests). If waivers are granted, the units for language classes will need to be replaced with elective courses.

Courses in **Bold** typeface indicate specific courses that must be completed for the major. Courses in **Bold Italics** indicate unique requirements or prerequisite courses for the major. Other courses such as Gened Courses or major/minor electives can be selected from a number of course choices.

<b>Freshman Year</b>	
English 101* Freshman English—3 units	English 102* Freshman English—3 units
Math 152 Elementary Functions —5 units	<b>Math 253 Calculus with Analytic Geometry I – 5 units</b>
Foreign Language**(GH) – 4 units	Foreign Language**(GH) – 4 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 units</b>	<b>16 units</b>
<b>Sophomore Year</b>	
<b>Math 254 Calculus with Analytic Geometry II – 5 units</b>	<b>Math 255 Calculus with Analytic Geometry III – 3 units</b>
<b>Math 280 Discrete Mathematics – 3 units</b>	<b>Math 355 Matrices &amp; Linear Algebra – 3 units</b>
Gened 110 World of the Arts—3 units	Lab Science (GL)—4-5 units
Comm 110 Intro. to Human Communication—3units	General Ed elective (GA, GE, GH, GI, or GS) —3 units
Minor Course—3 units	Minor Course—3 units
<b>17 units</b>	<b>16-17 units</b>
<b>Junior Year</b>	
<b>Math 301 Introduction to Analysis – 3 units</b>	<b>Math 417 Theory of Numbers – 3 units</b>
<b>Math 361 Differential Equations – 3 units</b>	<b>Math 452 Introduction to Abstract Algebra – 3 units</b>
<b>English 370 Adv Comp or English 372 Tech &amp; Scientific Writing – 3 units</b>	General Ed elective (GA, GE, GH, GI, or GS) —3 units
Gened 390 World of Ideas—3 units	Minor Course—3 units
Minor Course—3 units	Minor Course—3 units
<b>15 units</b>	<b>15 units</b>
<b>Senior Year</b>	
<b>Math 453 Abstract Algebra – 3 units</b>	<b>Math 464 Advanced Calculus – 3 units</b>
Diversity Course – 3 units	General Ed elective (GA, GE, GH, GI, or GS) —1 unit
General Ed elective (GA, GE, GH, GI, or GS) —3 units	Minor Course—3 units
Minor Course—3 units	Minor Course—3 units
BA Breadth Elective – 3 units	BA Breadth Elective – 3 units
<b>15 units</b>	<b>13 units</b>