



**Sample 4-Year Plan (Fall 2019 Requirements)  
 Mathematics, Applied Math 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>.

1 <sup>st</sup> Semester	Units	2 <sup>nd</sup> Semester	Units
ENGLISH 101 Freshman English	3	ENGLISH 102 Freshman English	3
<b>MATH 253 Calculus &amp; Analytic Geometry I</b>	<b>5</b>	<b>MATH 200 Mathematics: Form and Function</b>	<b>1</b>
Lab Science	4-5	<b>MATH 254 Calculus &amp; Analytic Geometry II</b>	<b>4</b>
GENED Core	3	Lab Science for BS	4-5
INTRAUNV 104 New Student Seminar (Recommended)	1	GENED Core	3
		PEGNRL 192 Personal Health & Fitness	1
Semester Total	16-17	Semester Total	16-17
3 <sup>rd</sup> Semester	Units	4 <sup>th</sup> Semester	Units
<b>MATH 255 Calculus &amp; Analytic Geometry III</b>	<b>4</b>	<b>MATH 355 Matrices &amp; Linear Algebra</b>	<b>3</b>
<b>MATH 361 Differential Equations</b>	<b>3</b>	<b>MATH 381 Mathematical Modeling and Simulation</b>	<b>3</b>
GENED Core	3	<b>COMPSCI 171, 172, 174, 220, or 222 Programming OR COMPSCI 347 Scientific Computing</b>	<b>3</b>
COMM 110 Intro to Human Communication	3	General Education Elective	3
Minor Course	3	Minor Course	3
Semester Total	16	Semester Total	15
5 <sup>th</sup> Semester	Units	6 <sup>th</sup> Semester	Units
<b>MATH 280 Discrete Mathematics</b>	<b>3</b>		<b>3</b>
<b>Applied Math Elective</b>	<b>3</b>	<b>Applied Math Elective</b>	<b>3</b>
<b>ENGLISH 370 Advanced Composition OR ENGLISH 372 Technical &amp; Scientific Writing</b>	<b>3</b>	General Education Elective	3
GENED 390 World of Ideas	3	Minor Course	3
Minor Course	3	Minor Course	3
Semester Total	15	Semester Total	15
7 <sup>th</sup> Semester	Units	8 <sup>th</sup> Semester	Units
<b>MATH 301 Introduction to Analysis</b>	<b>3</b>	<b>MATH 459 Partial Differential Equations</b>	<b>3</b>
U.S. Racial & Ethnic Diversity Course	3	General Education Elective	1
Elective	3	Elective Course	3
Minor Course	3	Elective Course	3
Minor Course	3	Minor Course	3
Semester Total	15	Semester Total	13

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

**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. Your ACT/SAT score will determine the English course in which you start. Your UW Math Placement score will determine the Math course in which you start. 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 designated GL from two different disciplines **and** 5 credits of advanced math or two 3-credit courses chosen from advanced math, statistics or computer science.

A Bachelor of Arts (BA) is also available. For the BA, students must demonstrate that they have achieved basic competency in a foreign language equivalent to one year of study at the college level. Students must also complete two 300/400 level courses outside of the major and minor subjects.

## Major Notes

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

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