Sample 4 Year Plan (Fall 2015 Requirements)
Chemistry, Analytical/Instrumental 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
Chemistry 102 Intro to Chemistry I	**5**	**Chemistry 104 Intro to Chemistry II**	**5**
Math 152 Elementary Functions	**5**	**Math 253 Calculus and Analytical Geometry I**	**5**
Intrauniversity 104 New Student Seminar (Recommended)	1	GENED Core	3
GENED Core	3		
Semester Total	17	Semester Total	16
3rd Semester	**Units**	**4th Semester**	**Units**
Chemistry 251 Organic Chemistry I	**3**	**Chemistry 252 Organic Chemistry II**	**3**
Chemistry 261 Organic Chemistry Lab I	**2**	**Physics 141 or 181**	**5**
Physics 140 or 180	**5**	Comm 110 Intro to Human Communication	3
Chemistry 184 Introduction to Chemistry	**1**	Minor Course	3
Math 254 Calculus and Analytic Geometry II	**5**	GENED Core	3
Semester Total	16	Semester Total	17
5th Semester	**Units**	**6th Semester**	**Units**
Chemistry 352 Quantitative Analysis	**5**	**Chemistry 484 Topics in Chemistry**	**1**
Chemistry 260 Intro to Inorganic Chemistry	**4**	**Biology 141 or 120**	**5**
Physics 221 Intermediate Laboratory	**2**	**Chemistry 480 Instrumental Analysis**	**4**
Minor Course	3	**Physics 330 or 331 OR Physics 303 or 496**	**4**
		General Ed Elective	3
Semester Total	14	Semester Total	17
7th Semester	**Units**	**8th Semester**	**Units**
Chemistry 370 Physical Chemistry I	**3**	**Chemistry 371 Physical Chemistry II**	**3**
Chemistry 470 Experimental Physical Chemistry	**1**	U.S. Racial & Ethnic Diversity Course	3
Physics 344 OR 360	**4**	Gened 390 World of Ideas	3
Chemistry 454 Biochemistry of Macromolecules	**3**	General Ed Elective	3
Chemistry 481 Instrumental Design & Maintenance	**1**	Minor Course	3
General Ed Elective	3		
PEGNRL 192 Personal Health & Fitness	1		
Semester Total	16	Semester Total	15

Department Website: http://www.uww.edu/cls/chemistry

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

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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.

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.