

### 3 Year Program for Bachelor of Science Degree in Biochemistry Tentative Three-Year Plan of Study

The program outline below shows how a student can earn the Bachelor of Science degree in three years at BGSU. Before you enroll at BGSU, consult with a College of Arts and Sciences advisor (419-372-2015) so that you earn the right credits that will count toward the degree.

Credits to earn before enrolling at BGSU through AP, CLEP, PSEO, or Dual Enrollment transfer credit			
BGSU Course Subject and Title	Credits	BGSU Course Subject and Title	Credits
CHEM 1250 or 1350: General Chemistry I (BGP)	5	CHEM 1270 or 1370: General Chemistry II	4
MATH 1310: Calculus I (BGP)	5	CHEM 1280 or 1380: General Chemistry Lab	1
GSW 1110 Intro to Academic Writing (BGP)	3	MATH 2320: Calculus II	5
Foreign Language III* (A&S)	3	GSW 1120 Academic Writing (BGP)	3
		Foreign Language IV* (A&S)	3
<b>Total Hours Completed 32</b>			
Fall Semester Year 1		Spring Semester Year 1	
PHYS 2010 or 2110: College or University Physics I (BGP)	5	PHYS 2020 or 2120: College or University Physics II (BGP)	5
CHEM 3410: Organic Chemistry I	5	CHEM 3440: Organic Chemistry II	3
BIOL 2050: Concepts in Biology II	4	CHEM 3450: Organic Chemistry Lab	2
		CHEM 2010: Quantitative Chemical Analysis	3
		Social Sciences #1 (BGP IP)	3
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>16</b>
Fall Semester Year 2		Spring Semester Year 2	
CHEM 4050: Physical Chemistry I	4	CHEM 4060: Physical Chemistry II	4
CHEM 4070: Integrated Lab I	2	Social Science #2	3
BIOL 3130: Microbiology or BIOL 2040: Concepts in Biology I	4-5	Humanities & Arts #1 (BGP CD)	3
CHEM 4130: Undergraduate Research (For ACS certification)	3	Multi-Disciplinary Component #1 (A&S)	3
		Multi-Disciplinary Component #2 (A&S)	3
<b>Total</b>	<b>15-16</b>	<b>Total</b>	<b>16</b>
Fall Semester Year 3		Spring Semester Year 3	
CHEM 4450: General Biochemistry I	3	CHEM 4470: General Biochemistry II	3
CHEM 4460: Biochemistry Lab	1	Humanities & Arts #2 (BGP)	3
CHEM 4630: Advanced Inorganic Chemistry (for ACS Certification)	3	Multi-Disciplinary Component #4 (A&S)	3
Multi-Disciplinary Component #3 (A&S)	3	Minor/Electives/Undergraduate Research/Internship	6
Minor/Electives/Undergraduate Research/Internship	6		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>15</b>

- *\*Assumes the student has had at least 2 years of the same foreign language in high school. This degree requires 4 years of the same language in high school or four semesters (through the 2020 level or equivalent) of the same language at the university level.*
- *For approved Laboratory Science, Foreign Language, and Multi-Disciplinary Component course offerings, please consult the College of Arts & Sciences Student Handbook at: <http://www.bgsu.edu/arts-and-sciences/student-resources.html>*

**Any questions? Contact an advisor in the College of Arts & Sciences at 419-372-2015**