BIOCHEMISTRY AND MOLECULAR BIOLOGY, BSAG

Requirements for Students Matriculating in or before Academic Year 2018-2019. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/ #matriculation).

Minimum Overall Grade Point Average: 2.00

Total Hours: 120

General Education Requirements English Composition See Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition) ENGL 1113 Composition I or ENGL 1313 Critical Analysis and Writing I Select one of the following: 3 ENGL 1213 Composition II ENGL 1413 Critical Analysis and Writing II ENGL 3323 Technical Writing American History & Government Select one of the following: 3 HIST 1103 Survey of American History HIST 1483 American History to 1865 HIST 1493 American History Since 1865 POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 Select 5 hours courses designated N Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	Code	Title	Hours		
See Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition) ENGL 1113 Composition I 3 or ENGL 1313 Critical Analysis and Writing I Select one of the following: 3 ENGL 1213 Composition II ENGL 1413 Critical Analysis and Writing II ENGL 3323 Technical Writing American History & Government Select one of the following: 3 HIST 1103 Survey of American History HIST 1483 American History to 1865 HIST 1493 American History Since 1865 POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	General Education Requirements				
university-academic-regulations/#english-composition) ENGL 1113 Composition I 3 or ENGL 1313 Critical Analysis and Writing I Select one of the following: 3 ENGL 1213 Composition II ENGL 1413 Critical Analysis and Writing II ENGL 3323 Technical Writing American History & Government Select one of the following: 3 HIST 1103 Survey of American History HIST 1483 American History to 1865 HIST 1493 American History Since 1865 POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	English Composition				
ENGL 1113 Composition I or ENGL 1313 Critical Analysis and Writing I Select one of the following: ENGL 1213 Composition II ENGL 1413 Critical Analysis and Writing II ENGL 3323 Technical Writing American History & Government Select one of the following: HIST 1103 Survey of American History HIST 1483 American History to 1865 HIST 1493 American History Since 1865 POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 Humanities (H) Courses designated (H) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course					
Select one of the following: ENGL 1213 Composition II ENGL 1413 Critical Analysis and Writing II ENGL 3323 Technical Writing American History & Government Select one of the following: HIST 1103 Survey of American History HIST 1483 American History to 1865 HIST 1493 American History Since 1865 POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	ENGL 1113	Composition I	3		
ENGL 1213 Composition II ENGL 1413 Critical Analysis and Writing II ENGL 3323 Technical Writing American History & Government Select one of the following: 3 HIST 1103 Survey of American History HIST 1483 American History to 1865 HIST 1493 American History Since 1865 POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	or ENGL 1313	Critical Analysis and Writing I			
ENGL 1413 Critical Analysis and Writing II ENGL 3323 Technical Writing American History & Government Select one of the following: 3 HIST 1103 Survey of American History HIST 1483 American History to 1865 HIST 1493 American History Since 1865 POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	, , ,				
ENGL 3323 Technical Writing American History & Government Select one of the following: 3 HIST 1103 Survey of American History HIST 1483 American History to 1865 HIST 1493 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	ENGL 1213	Composition II			
American History & Government Select one of the following: HIST 1103 Survey of American History HIST 1483 American History to 1865 HIST 1493 American History Since 1865 POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	ENGL 1413	Critical Analysis and Writing II			
Select one of the following: HIST 1103 Survey of American History HIST 1483 American History to 1865 HIST 1493 American History Since 1865 POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	ENGL 3323	Technical Writing			
HIST 1103 Survey of American History HIST 1483 American History to 1865 HIST 1493 American History Since 1865 POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	American History & Go	vernment			
HIST 1483 American History to 1865 HIST 1493 American History Since 1865 POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	Select one of the follo	owing:	3		
HIST 1483 American History to 1865 HIST 1493 American History Since 1865 POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	HIST 1103	Survey of American History			
POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	HIST 1483				
Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	HIST 1493	American History Since 1865			
Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) 1 4 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	POLS 1113	American Government	3		
MATH 2144 Calculus I (A) 1 Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course					
Humanities (H) Courses designated (H) 6 Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	-	_ · · · •	4		
Natural Sciences (N) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	Humanities (H)	. ,			
Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	Courses designated ((H)	6		
CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	Natural Sciences (N)	,			
CHEM 1314 Chemistry I (LN) 1 4 Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	Must include one Lab	ooratory Science (L) course			
Select 5 hours courses designated N 5 Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course			4		
Social & Behavioral Sciences (S) AGEC 1113 Introduction to Agricultural Economics (S) 1 3 Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	Select 5 hours course		5		
Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course					
Additional General Education Courses designated (A), (H), (N), or (S) 6 Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	AGEC 1113	Introduction to Agricultural Economics (S) ¹	3		
Hours Subtotal 40 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	Additional General Edu				
Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	Courses designated ((A), (H), (N), or (S)	6		
May be completed in any part of the degree plan Select at least one Diversity (D) course	Hours Subtotal		40		
Select at least one Diversity (D) course	Diversity (D) & Interna	ational Dimension (I)			
Select at least one Diversity (D) course	• • •				
College/Departmental Requirements	College/Departmenta	l Requirements			
Agricultural Sciences and Natural Resources Core					
AG 1011 First Year Seminar 1	•		1		
From two of the following groups, select one course: 6	From two of the follo	wing groups, select one course:	6		
Group 1:					
PLNT 1213 Introduction to Plant and Soil Systems	•	Introduction to Plant and Soil Systems			
HORT 1013 Principles of Horticultural Science (LN)	HORT 1013	-			
NREM 1113 Elements of Forestry	NREM 1113				

Group 2:		
SOIL 1113	Land, Life and the Environment (N)	
SOIL 2124	Fundamentals of Soil Science (N)	
Group 3:		
ANSI 1124	Introduction to the Animal Sciences	
FDSC 1133	Fundamentals of Food Science	
ENTO 2993	Introduction to Entomology (LN)	
ENTO 3003	Livestock Entomology	
Group 4:		
NREM 1014	Introduction to Natural History (LN)	
NREM 2013	Ecology of Natural Resources	
ENVR 1113	Elements of Environmental Science	
BIOC 2344	Chemistry and Applications of Biomolecules	
BIOC 3713	Biochemistry I	
LA 1013	Introduction to Landscape Architecture and Landscape Management	
Written and Oral Con		
Select one of the fo		3
AGCM 3103	Written Communications in Agricultural	
	Sciences and Natural Resources	
BCOM 3113	Written Communication	
BCOM 3443	Business Communication for International Students	
ENGL 3323	Technical Writing ²	
Select one of the fo		3
AGCM 3203	Oral Communications in Agricultural	
	Sciences & Natural Resources (S) ³	
SPCH 2713	Introduction to Speech Communication (S)	
SPCH 3733	Elements of Persuasion (S) ³	
Hours Subtotal		13
Major Requirement	s	
Core Courses		
BIOC 3723	Biochemistry and Molecular Biology Laboratory	3
BIOC 3813	Biochemistry II	3
BIOC 3223	Physical Chemistry for Biologists	3
or CHEM 3433	Physical Chemistry I	
BIOC 4883	Senior Seminar in Biochemistry	3
BIOC 4990	Undergraduate Research (2 hrs) ⁴	2
CHEM 1515	Chemistry II (LN)	5
CHEM 2113	Principles of Analytical Chemistry	3
CHEM 3053	Organic Chemistry I	3
CHEM 3112	Organic Chemistry Laboratory	2
CHEM 3153	Organic Chemistry II	3
Select one of the fo	llowing:	3
MATH 2153	Calculus II (A)	
STAT 2013	Elementary Statistics (A)	
STAT 4013	Statistical Methods I (A)	
MICR 2123	Introduction to Microbiology	3
MICR 2132	Introduction to Microbiology Laboratory	2
PHYS 1114	College Physics I (LN)	4

or PHYS 2014	University Physics I (LN)	
PHYS 1214	College Physics II (LN)	4
or PHYS 2114	University Physics II (LN)	
BIOL 1114	Introductory Biology (LN)	4
BIOL 1604	Animal Biology	4
or PBIO 1404	Plant Biology (LN)	
Select one of the foll	owing:	3
ANSI 3423	Animal Genetics	
BIOL 3023	General Genetics	
PLNT 3554	Plant Genetics and Biotechnology	
Select one of the foll	owing:	4
BIOL 3204	Physiology	
ENTO 3044	Insect Morphology and Physiology	
PBIO 4463	Plant Physiology	
Related Courses		
	6 hours of BIOC or courses related to BIOC, oproval, of the following:	6
ANSI 3433	Animal Breeding	
ANSI 3443	Animal Reproduction	
ANSI 3543	Principles of Animal Nutrition	
BIOC 1990	Freshman Research in Biochemistry (up to 2 hours) 4	
BIOC 2202	Medicine and Molecules	
BIOC 2352	Fundamental Biochemistry	
BIOC 3003	Hypothesis-Driven Undergraduate	
	Research	
BIOC 4113	Molecular Biology	
BIOC 4523	Biochemistry of the Cell	
BIOC 4723	Introduction to Bioinformatics	
BIOC 4990	Undergraduate Research 4	
BIOL 3034	General Ecology	
BIOL 3104	Invertebrate Zoology	
BIOL 3114	Vertebrate Morphology	
BIOL 3214	Human Anatomy	
BIOL 3233	Human Reproduction	
BIOL 4104	General Parasitology	
BIOL 4133	Evolution	
BIOL 4134	Embryology	
BIOL 4174	Mammalogy	
BIOL 4215	Mammalian Physiology	
BIOL 4223	Mammalian Physiology Laboratory	
BIOL 4283	Endocrinology	
BIOL 4293	Behavioral Neuroendocrinology	
BIOL 4363	Principles of Toxicology	
CHEM 2122	Quantitative Analysis Laboratory	
CHEM 3353	Descriptive Inorganic Chemistry	
CHEM 3532	Physico-Chemical Measurements	
CHEM 3553	Physical Chemistry II	
CHEM 4320	Chemical and Spectrometric Identification of Organic Compounds	
ENTO 4573	Introduction to Forensic Entomology	
ENTO 4733	Insect Behavior and Chemical Ecology	
ENTO 4854	Medical and Veterinary Entomology	

MATH 2163	Calculus III	
MATH 2233	Differential Equations	
MATH 3013	Linear Algebra	
MATH 3263	Linear Algebra and Differential Equations	
MICR 3143	Medical Mycology	
MICR 3154	Food Microbiology	
MICR 3223	Advanced Microbiology	
MICR 3253	Immunology	
MICR 4012	Molecular Microbiology Laboratory I	
MICR 4013	Microbial Physiology & Ecology	
MICR 4112	Molecular Microbiology Laboratory II	
MICR 4123	Virology	
MICR 4203	Bioinformatics	
MICR 4053	Pathogenic Microbiology	
MICR 4052	Pathogenic Microbiology Lab	
MICR 4233	Advanced Cell and Molecular Biology	
MICR 4253	Concepts in Medical Genetics	
MICR 4263	Microbial Genetics: from Genes to Genomes	
MICR 4323	Biological Energy Transduction	
MICR 4423	Bacterial Cell Walls	
NSCI 4023	Nutrition in the Pathophysiology of Chronic Disease	
NSCI 4123	Human Nutrition and Metabolism I	
NSCI 4143	Human Nutrition and Metabolism II	
PBIO 4233	Plant Anatomy	
PBIO 4423	Plant Mineral Nutrition	
PBIO 4462	Plant Physiology Laboratory	
PHYS 4313	Molecular Biophysics	
PLNT 4353	Plant Breeding	
STAT 4013	Statistical Methods I (A) (if not used as (A) above))	
Hours Subtotal		67
Electives		
Select 0 hours or hou	rs to complete required total for degree	0
Total Hours		120

- College & Departmental requirements that may be used to meet GE requirements.
- If ENGL 3323 Technical Writing is substituted for ENGL 1213 Composition II above; hours in this block are reduced by 3.
- If used as (S) course above, hours in this block reduced by 3.
- Total hours of BIOC 1990 Freshman Research in Biochemistry and BIOC 4990 Undergraduate Research may not exceed 10 hours.

Other Requirements

- A minimum of 40 semester credit hours and 100 grade points must be earned in courses numbered 3000 or above.
- A 2.00 GPA or higher in upper-division hours.

Additional State/OSU Requirements

 At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.

- Limit of: one-half of major course requirements as transfer work; onefourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2024.