BIOLOGY - BIOMEDICAL OPTION, BACHELOR OF SCIENCE

Dr. Michael Davis, Department Head McEver Hall, Room 34-D (479) 964-0816 mdavis@atu.edu

Curriculum

Course	Title	Hours	Completed
Freshman			
Fall			
BIOL 1011	Orientation to the Biological Sciences	1	
BIOL 1114	Principles of Biology	4	
CHEM 2124	General Chemistry I	4	
& CHEM 2120	and General Chemistry I Lab		
ENGL 1013	Composition I	3	
MATH 1113	College Algebra	3	
Spring	Hours	15	
Spring BIOL 2124	Principles of Zoology	4	
CHEM 2134	General Chemistry II	4	
& CHEM 2120	and General Chemistry I Lab	•	
ENGL 1023	Composition II 1	3	
STAT 2163	Introduction to Statistical Methods	3	
or PSY 2053	or Statistics for the Behavioral		
or SOC 2053	Sciences or Statistics for the Behavioral		
	Sciences		
USHG 1XXX	U.S. History and Government ¹	3	
	Hours	17	
Sophomore			
Fall			
BIOL 2134	Principles of Botany	4	
CHEM 3254	Fundamentals of Organic Chemistry	4	
PHYS 2014	Algebra-Based Physics I	4	
& PHYS 2000	and Physics Laboratory I		
SOC 1003 or PSY 2003	Introductory Sociology or General Psychology	3	
011 01 2000	Hours	15	
Spring	110413		
BIOL 2014	Human Anatomy	4	
CHEM 3264	Mechanistic Organic Chemistry	4	
Major Support Elective ³	,	3	
PHYS 2024	Algebra-Based Physics II	4	
& PHYS 2010	and Physics Laboratory II		
	Hours	15	
Junior			
Fall			
BIOL 3034	Genetics	4	
BIOL 3054	Microbiology	4	
BIOL 3074	Human Physiology	4	

SS 1XXX	Social Science Courses ¹	3	
	Hours	15	
Spring			
BIOL 4033	Cell Biology	3	
CHEM 3344	Principles of Biochemistry	4	
COMM 2003 or COMM 2173	Public Speaking or Business and Professional Speaking	3	
Psychology Elective (3000-4000) ²		3	
Elective		2	
	Hours	15	
Senior			
Fall			
BIOL 3114 or BIOL 4094	Principles of Ecology or Coastal Ecology	4	
Biomedical Elective ⁵		6-8	
FAH 1XXX	Fine Arts and Humanities Courses ¹	3	
Mathematic or Statistics Elective ⁴		3	
	Hours	16-18	
Spring			
BIOL 4891	Seminar in Biology	1	
Biomedical Elective ⁵		6-8	
FAH 1XXX	Fine Arts and Humanities Courses ¹	3	
Elective		2	
	Hours	12-14	
	Total Hours	120-124	

See appropriate alternatives or substitutions in "General Education Requirements (https://catalog.atu.edu/undergraduate/general-education-requirements/)".

At least 40 of the total hours required for graduation must be 3000-4000 level courses.

Psychology Elective 3000-4000 level courses include: PSY 3003 Abnormal Psychology, PSY 3013 Psychosocial Aspects of Death and Dying, PSY 3813 Lifespan Development, or PSY 4133 Psychopharmacology.

Major Support Elective courses include: AHS 2013 Medical Terminology, PE 2513 First Aid, or PHIL 3103 Logic.

Mathematics and Statistics Elective courses include: any mathematics higher than MATH 1113 College Algebra or any statistics higher than STAT 2163 Introduction to Statistical Methods.

Biomedical Elective courses include: BIOL 3033 Bioinformatics, BIOL 3064 Parasitology, BIOL 3803 Applied Pathophysiology, BIOL 4023 Immunology, BIOL 4054 Vertebrate Histology, BIOL 4074 Molecular Genetics, BIOL 4881 Advanced Topics in Biology, BIOL 4882 Advanced Topics in Biology, BIOL 4883 Advanced Topics in Biology, BIOL 4884 Advanced Topics in Biology, BIOL 4951 Undergraduate Research in Biology, BIOL 4952 Undergraduate Research in Biology, BIOL 4953 Undergraduate Research in Biology.