CURRICULUM FOR ASSOCIATE OF SCIENCE DEGREE IN BIOLOGY

COURSES ACCEPTED FOR BACHELOR OF SCIENCE DEGREE IN BIOLOGY

	DEGREE IN BIOLOGY			IN BIOLOGY	
	Stark State College			The University of Mount Union	
Course		Credits	Course		Credit
	Freshman Experience & Written				1
SSC101	Student Success Seminar	1	FYS100	First Year Seminar	4
	College Composition (required)	3			-
	Technical Report Writing	3	WRT199	Technical Report Writing	3
ENG231	College Composition II	3	WRT299	College Composition II	3
COM121	Effective Speaking	3	COM101	Effective Speaking	3
COM122	Interpersonal Communication	3	COM220	Interpersonal Communication	3
	Social and Behavio	oral Scien	ces (6 cr m	inimum)	-
PSY121	General Psychology	3	PSY110	The Psychological Sciences	3
	Sociology	3	SOC100	Sociology	3
BUS122	Basic Economics	3	ECN105	Introduction to Economics	3
505005	Arts and Hun			7	-
	Cultural Diversity (required)	3	SOC299	Cultural Diversity	3
	British Literature: Med to 1785	3	ENG299	British Literature: Med to 1785	3
	British Literature: 1785 to present	3	ENG299	British Literature: 1785 to present	3
	American Literature: Colonial to 1865	3	ENG299	American Literature: Colonial to 1865	3
	American Literature: 1865 to Present	3	ENG299	American Literature: 1865 to Present	3
HIS121	U.S. History I to 1877	3	HST199	U.S. History I to 1877	3
HIS122	U.S. History from 1877	3	HST199	U.S. History from 1877	3
PHL122	Ethics (recommended)	3	PHL199	Ethics	3
	Mathema	atics (4 cr	minimum)		
MTH125	College Algebra	4	MTH105	College Algebra	4
MTH135	Precalculus(recommended)	5	MTH140	Precalculus	5
MTH124	Statistics	3	MTH123	Elementary Statistics	3
	Biol	ogy (*req	uired)		-
BIO141	*General Biology I w/lab (4 cr)	4	BIO140	The Unity of Life w/lab	4
BIO142	*General Biology II w/lab (4 cr)	4	BIO141	The Diversity of Life w/lab	4
BIO121	Anatomy & Physiology I w/lab	4	BIO210	Anatomy & Physiology I w/lab	4
BIO122	Anatomy & Physiology II w/lab	4	BIO211	Anatomy & Physiology II w/lab	4
BIO126		5	ENV190	Introduction to Env. Science w/lab	5
	Science, Energy & the Env. w/lab (not in degree)	4	_		4
BIO241	General Genetics w/lab		BIO240	Genetics w/lab	+ -
BIO221	Principles of Microbiology w/lab	4	BIO299	Special Topics in Biology	4
ECO241	Ecology w/lab	4	BIO220	Ecology w/lab (4 cr)	4
BIO242	Cell & Molecular Biology w/lab	4	BIO270	Cell Biology w/lab (4 cr)	4
	Chem	istry (*re	quired)	1	
CHM141	*General Chemistry I w/lab	5	CHE110	Foundations in Chemistry w/lab	5
	*General Chemistry II w/lab	5	CHE120	Concepts in Chemistry w/lab	5
	Organic Chemistry I w/lab	5	CHE231	Organic Chemistry I w/lab	5
	Organic Chemistry II w/lab	5	CHE232	Organic Chemistry II w/lab	5
	Biochemistry I	3	CHE299	Biochemistry I	3
	Biochemistry II	3	CHE299	Biochemistry II	3
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	199 (N. 14) 199 (N. 14) 199 (N. 14) 199 (N. 14)	Physics		And the second s	
PHY121	College Physics I w/lab	4	PHY199	College Physics I w/lab	4
PHY122	College Physics II w/lab	4	PHY199	College Physics II w/lab	4
		Carete			-
SCI273	Special Topics in Science	Capston 3	BIO299	Special Topics in Science	3
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Revised 1/22/16

UNIVERSITY OF MOUNT UNION COURSES TO BE COMPLETED AT UNIVERSITY OF MOUNT UNION BACHELOR OF SCIENCE - BIOLOGY

Course	Title	Credits	Course	Title	Credits
CHE231	Organic Chemistry I	4	Three of	the following courses with at lea	st 8
	OR		hours at	300-level and above	
CHE220	Analytical Chemistry	4	ENV190	Intro to Environmental Science	4
MTH123	Elementary Statistics	4	BIO201	Anatomy & Physiology I	4
	OR		BIO211	Anatomy & Physiology II	4
MTH141	Calculus I	4	BIO299	Special Topics in Biology	1-4
One of th	e following:		BIO300	Molecular Biology	4
BIO240	Genetics	4	BIO305	Microbiology	4
BIO270	Cell Biology	4	BIO315	Physiological Ecology	4
One of th	e following Organismal Courses		BIO321	Aquatic Ecology	4
BiO260	Plant Structure and Function	4	BIO322	Ecotoxicology	4
BIO280	Biology of Marine Organisms	4	BIO340	Immunology	4
BIO285	Vertebrate Zoology	4	BIO360	Independent Study	1-4
BIO295	Developmental Biology	4	BIO380	Vertebrate Physiology	4
One from	the following Ecology and Evolutionary	Biology	At least	4 hours of Senior Culminating Ex	perience
BIO215	Evolutionary Biology	4	BIO405	Research	1-4
BIO220	Ecology	4	BIO410	Senior Seminar I	2
BIO230	Conservation Biology	4	BIO411	Senior Seminar II	2
BIO280	Biology of Marine Organisms	4	BIO499	Internship in Biology	1-4

	Summary		
Biology Major		36	
Math Proficiency			
Foreign Language Proficiency			
Second Year WOC Portfolio		0	
XXX XXX	Foundation	4	
XXX XXX	Foundation	4	
XXX XXX	Theme 1	4	
XXX XXX	Theme 2	4	
XXX XXX	Capstone	4	
University of Mount Union Coursework (minimum)		56	
AS STARK STATE (minimum)			
Additional hours at STARK STATE or UMU			
Degree Total			

University of Mount Union Transfer Notes:

Total number of hours needed to graduate is 128.

Math Proficiency would be met with MTH 124

Student must complete a minimum of 48 hours at UMU, of which a minimum of 16 in the major and 8 in the minor are required.

Each student must contact the WOC Director to develop a plan and schedule for the Second Year WOC Portfolio
A minor is required at UMU.

Foreign language proficiency can be met with a proficiency exam OR by taking the a 200 level courses in SPN or CHN at Stark State. If students tested proficient, or successfully passed these courses, no courses would be needed at UMU. If not, the student would need to take one or two foreign language courses.

Only two transfer courses may be used to meet the Foundational Knowledge requirement. The others must be taken at UMU. For Biology majors, a Fine Art (A) and a Humanities (H) course are required, as a minimum.

Students interested in a health profession are better served by taking certain specific electives, which should be discussed with an advisor