

## Bachelor of Arts - Biological Sciences Requirements (BIOL BA)

56-57 credits, plus minor  
(updated March 2007)

Biology (31-32 credits; 25-26 upper-level)	Pre-Requisites	Credits	Semesters Offered	Semester Taken	Grade
BIOL 100 - Concepts of Biology*	None	4	FSZ		
BIOL 100L - Concepts of Bio Lab*	100 (pre- or co- req)	2	FSZ		
BIOL 301 - Ecology & Evolution*	100	3	FSZ		
BIOL 302 - Molecular & General Genetics*	100, CHEM 101, CHEM 102 (pre- or co-req), sophomore standing	4	FSZ		
BIOL 302L - Genetics Lab*	100L, 302	2	FS		
BIOL 303 - Cell Biology*	302, CHEM 102 (351 recommended)	3	FS <sup>†</sup>		
BIOL 303L - Cell Biology Lab*	100L; 303	2	Fall Only		
BIOL 304 - Plant Biology*	303	3	Fall Only		
BIOL 305 - Comparative Animal Physiology*	303; PHYS 112 (pre- or co-req)	3	S <sup>†</sup>		
BIOL 304L -Plant Biology Lab* or BIOL 305L - Comp Animal Phys Lab*	303L; 304 (pre- or co-req) 303L; 305/PHYS 112 (pre- or co-req)	2	Spring Only		
BIOL 4XX (elective) <sup>1*</sup>	See catalog	3-4			
<b>Chemistry (13 credits; 3 upper-level)</b>					
CHEM 101- Principles of Chemistry I*	MATH 150 recommended	4	FSZ		
CHEM 102 - Principles of Chemistry II*	CHEM 101	4	FSZ		
CHEM 102L - Introductory Chemistry Lab I*	CHEM 101; 102 (pre- or co-req)	2	FSZ		
CHEM 351 - Organic Chemistry I	CHEM 102	3	FS		
<b>Physics and Math (12 credits; 4 upper-level)</b>					
PHYS 111 - Basic Physics I*	None	4	FSZ		
PHYS 112 - Basic Physics II	PHYS 111	4	FSZ		
STAT 350 - Stats w/Applications in Bio Sci or STAT 351 - Applied Stats for Business/Econ	MATH 150 or 151 or 155 MATH 150	4	FSZ		
<b>Academic Minor in an area other than CHEM or PHYS (approximately 18-25 credits)</b>					

<sup>1</sup> Elective credit must be taken at UMBC. BIOL 422L, 495, 497H, 499, 499H may not be used for the elective credit.

<sup>†</sup> BIOL303 and BIOL305 have occasionally been offered in summer session.

- All courses marked with a \* must be completed with a grade of C or better. An overall C average or better must be obtained in all required science/math courses for graduation with a departmental degree.
- A majority of the required BIOL credits must be completed in residence at UMBC.
- F = Fall, S = Spring, Z = Summer. Courses marked with a "Z" have been taught in the Summer in recent years; *there is no guarantee that they will be offered every Summer.*