

CAA students earning an AS degree

BS, Biology: Ecology, Evolution & Environmental, 142C

Appalachian State University

College of Arts & Sciences

[Department of Biology](#)

[Program of Study](#)

2014-2015

Part I: Complete the AS degree within the NCCCS as outlined.

Universal General Education Transfer Component (UGETC)

English Composition (6 SCH)							
The following <u>two</u> English composition courses are required.							
Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required <u>or</u> Preferred by Major	Notes
ENG 111	Expository Writing	3	None	ENG 1000	3	x	
ENG 112	Argument-Based Research	3	ENG 111	ENG 2001	3	x	
Total Credit Hours Required		6			6		
Humanities/Fine Arts (6 SCH)							
Students will select <u>two</u> courses from at least two different disciplines:							
Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required <u>or</u> Preferred by Major	Notes
ART 111	Art Appreciation	3	None	ART 2011	3		
ART 114	Art History Survey I	3	None	ART 2030	3		
ART 115	Art History Survey II	3	None	ART 2130	3		
COM 231	Public Speaking	3	None	COM 2101	3		
ENG 231	American Literature I	3	ENG 112, 113 or 114	ENG 2350	3		
ENG 232	American Literature II	3	ENG 112, 113 or 114	ENG 2350	3		
MUS 110	Music Appreciation	3	None	MUS 2011	3		
MUS 112	Introduction to Jazz	3	None	MUS 2014	3		
PHI 215	Philosophical Issues	3	ENG 111	PHL Elective	3		
PHI 240	Introduction to Ethics	3	ENG 111	PHL 2000	3		
Total Credit Hours Required		6			9		
Social /Behavioral Science (6 SCH)							
Students will select <u>two</u> courses from at least two different disciplines:							
Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required <u>or</u> Preferred by Major	Notes
ECO 251	Principles of Microeconomics	3	None	ECO 2030	3		
ECO 252	Principles of Macroeconomics	3	None	ECO 2040	3		
HIS 111	World Civilizations I	3	None	HIS 1110	3		
HIS 112	World Civilizations II	3	None	HIS 1130	3		
HIS 131	American History I	3	None	HIS 1200	3		
HIS 132	American History II	3	None	HIS 1200	3		
PSY 150	General Psychology	3	None	PSY 1200	3		
POL 120	American Government	3	None	P S 1100	3		
SOC 210	Introduction to Sociology	3	None	SOC 1000	3		
Total Credit Hours Required		6			6		
Mathematics (8 SCH)							
Students will select <u>two</u> courses from the following:							
Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required <u>or</u> Preferred by Major	Notes
MAT 171	Precalculus Algebra	4	None	MAT 1020	4		
MAT 172	Precalculus Trigonometry	4	MAT 171	GEP MAT	4		
MATH 263	Brief Calculus	4	MAT 171	MAT 1030	4		
MATH 271	Calculus I	4	MAT 172	MAT 1110	4	Required	
Total Credit Hours Required		8			8		

Natural Sciences (8 SCH)				Students will select 8 SCH from the following courses:			
Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required or Preferred by Major	Notes
AST 151/151A	General Astronomy I and lab I	4	None	AST 1001	4		
BIO 110	Principles of Biology	4	None	BIO 1101	4		
BIO 111	General Biology I	4	None	BIO 1801	4	Required	must take both BIO 111 and BIO 112
BIO 112	General Biology II	4	BIO 111	BIO 1802	4	Required	must take both BIO 111 and BIO 112
CHM 151	General Chemistry I	4	None	CHE 1101 CHE 1110	4	Required	must take both CHM 151 and CHM 152
CHM 152	General Chemistry II	4	CHM 151	CHE 1102 CHE 1120	4	Required	must take both CHM 151 and CHM 152
GEL 111	Introduction Geology	4	None	GLY 1101	4		
PHY 110/110A	Conceptual Physics and Lab	4	None	PHY 1100	4		must take course with lab
PHY 151	College Physics I	4	MAT 171	PHY 1103	4		must take PHY 151 and PHY 152
PHY 152	College Physics II	4	PHY 151	PHY 1104	4		must take PHY 151 and PHY 152
PHY 251	General Physics I	4	MAT 271	PHY 1150	4		must take PHY 251 and PHY 252
PHY 252	General Physics II	4	MAT 272 <u>and</u> PHY 251	PHY 1151	4		must take PHY 251 and PHY 252
Total Credit Hours Required		8			8		

Total UGETC Hours

34

34

Additional General Education Courses (11-12 SHC) : These courses must be classified as UGETC or general education within the CAA.

Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Category	Notes
BIO/CHM not taken previously		4			4	GEC	Required by major
UGETC/GEC		3			3	UGETC/GEC	
UGETC/GEC		3			3	UGETC/GEC	
UGETC/GEC		3			3	UGETC/GEC	
Total Credit Hours Required		13			13		

Total General Education Hours Required

47

47

Other REQUIRED HOURS (14-15 SHC): These courses must be classified as pre-major, elective or general education within the CAA.

Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Category	Notes
ACA 122	College Transfer Success	1	None		1	GEC	required by CAA
MAT 152	Statistics	4	None	STT 2810	4	Pre-Major	Required by major
BIO/CHM not previously taken		4			4	Pre-Major	Required by major
Pre-Major/Elective/GEC		3			3	Pre-Major/Elective/GEC	BIO 250 - See Notes
Pre-Major/Elective/GEC		3			3	Pre-Major/Elective/GEC	BIO 265 - See Notes

Other Required Hours (15-16 SCH)

15

15

Total Semester Credit Hours in Program: 62

62

Notes:

BIO 250, Genetics: Depending on course availability, this course could be taken to transfer as BIO 2400; however, this course will need to be petitioned for credit. Students are encouraged to contact the [Office of Transfer Services](#), prior to registration, to investigate class transferability.

BIO 265, Cell Biology: Depending on course availability, this course could be taken to transfer as BIO 2600 & 2610 (lecture and lab). Refer to the Program of Study for more information on concentration requirements.

Part II: Complete semesters 5 - 8 at Appalachian

3th -4th Year Plan: BS, Biology: Ecology, Evolution & Environmental

Semester	Course	Hours	Notes		
5	BIO 2012	3	Major Requirement	17	
5	CHE 2101 & 2102	4	Major Requirement		
5	BIO 2400 or BIO 2700	3	Major Requirement		
5	BIO 3302	4	Major Requirement		
5	Free Elective	3			
6	BIO Diversity Course 1	3-4	Area II. C. 3 course	15-18	
6	BIO Other Sciences Course 1	3-4	Area II. C. 4 course		
6	BIO Evol/Ecol or Environ Course 1	3	Area II. C. 2 course		
6	BIO Cell/Subcell or Anat & Phys	3-4	Writing in the Discipline		
6	Free Elective	3			
7	BIO Evol/Ecol or Environ Course 2	4	Area II. C. 2 course	15-16	
7	BIO Biodiversity Course 2	3-4	Area II. C. 3 course		
7	BIO Other Science Course 2	3-4	Area II. C. 4 course		
7	BIO Other Science Course 3	3-4	Area II. C. 4 course		
8	BIO 4501 or 4700 or 4910	3	CAPSTONE	15-18	
8	BIO Other Science Course 4	3-4	Area II. C. 4 course		
8	BIO Other Science Course 5	3-4	Area II. C. 4 course		
8	BIO Other Science Course 6	3-4	Area II. C. 4 course		
8	Free Elective	3	Take enough Free Elective to reach 128 hours required		
				62-69	ASU hours
				62	transfer hours
				128	hours for graduation

Notes:

- Due to course sequencing and availability, students may require 2.5 years to complete this degree.

Residency Requirements:

- 31 hours must be from Appalachian
- 18 hours in the major must be from Appalachian
- 9 hours in the minor must be from Appalachian
- 50 hours must be from a four-year institution