

CAA students earning an AS degree

BS, Biology, Cell/Molecular Biology Concentration, 142B

Appalachian State University

College of Arts and 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 or Preferred by Major	Notes
ENG 111	Expository Writing	3	None	ENG 1000	3	Required	
ENG 112	Argument-Based Research	3	ENG 111	ENG 2001	3	Required	
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 or 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	None	ENG 2350	3		
ENG 232	American Literature II	3	None	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			6		
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 or 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	HIST 1400	3		
HIS 131	American History I	3	None	HIST 1200	3		
HIS 132	American History II	3	None	HIST 1200	3		
PSY 150	General Psychology	3	None	PSY 1200	3		
POL 120	American Government	3	None	PLS 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 or Preferred by Major	Notes
MAT 171	Precalculus Algebra	4	None	MAT 1020	4		MAT 171 & 172 (MAT 1025) may need to be taken as prerequisites for MAT 271 (MAT 1110, which is required for major)
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 two courses 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		None	AST 1001	4		
BIO 110	Principles of Biology	4	None	BIO 1101	4		
BIO 111	General Biology I	4	None	BIO 1201	4	Required	Required Cognate Course - See Program of Study
BIO 112	General Biology II	4	BIO 111	BIO 1202	4	Required	Required Cognate Course - See Program of Study
CHM 151	General Chemistry I	4	None	CHE 1101 CHE 1110	4	Required	Required Cognate Course - See Program of Study
CHM 152	General Chemistry II	4	CHM 151	CHE 1102 CHE 1120	4	Required	Required Cognate Course - See Program of Study
GEL 111	Introduction to Geology	4	None	GLY 1101	4		
PHY 110/110A	Conceptual Physics and Lab	4	None	PHY 1100	4		
PHY 151	College Physics I	4	MAT 171	PHY 1103	4	Required	Required Cognate Course - See Program of Study
PHY 152	College Physics II	4	PHY 151	PHY 1104	4	Required	Required Cognate Course - See Program of Study
PHY 251	General Physics I	4	MAT 271	PHY 1150	4		
PHY 252	General Physics II	4	MAT 272 <i>and</i> PHY 251	PHY 1151	4		
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/PHY not taken previously		4			4	UGETC/GEC	Required Cognate Course - See Program of Study
BIO/CHM/PHY not taken previously		4			4	UGETC/GEC	Required Cognate Course - See Program of Study
UGETC/Elective		3			3	UGETC/GEC	
Total Credit Hours Required		11			11		

Total General Education Hours Required **45** **45**

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	Statistical Methods I	4	None	STT 2810	4	Pre-Major	Required Cognate Course - See Program of Study
BIO/CHM/PHY not taken previously		4			4	Pre-Major	Required Cognate Course - See Program of Study
BIO/CHM/PHY not taken previously		4			4	Pre-Major	Required Cognate Course - See Program of Study
Pre-Major/Elective		3			3	Elective	

Other Required Hours (15-16 SCH) **16** **16**

Total Semester Credit Hours in Program: 61 **61**

Part II: Semesters 5-8 - taken at Appalachian

3th -4th Year Plan BS, Biology at Appalachian State University

Semester	Course	Hours	Notes	
5	BIO 2400 or BIO 2700	3	Major Requirement	
5	CHE 2201 & 2203	4	Major Requirement	
5	BIO 2012	3	Major Requirement	
5	BIO 2600	3	Major Requirement	
5	BIO 2410 or 2610	1		14
6	CHE 2202 & 2204	4	Major Requirement	
6	BIO 3301 or 3314 or 4555	4	Major Requirement	
6	Bio Cell/Subcell or Ant & Phys	3-4	See Program of Study	
6	BIO Evol/Ecology or Biodiversity	3-4	See Program of Study	
6	Free Elective	3		17-19
7	CHE 4580	3	Major Requirement	
7	Bio Cell/Subcell or Ant & Phys	3-4	See Program of Study	
7	Bio Cell/Subcell or Ant & Phys	3-4	See Program of Study	
7	BIO 3800	3	Writing in the Discipline [WID]	
7	Free Elective	3		16-18
8	Bio Cell/Subcell or Ant & Phys	3-4	See Program of Study	
8	BIO 4501 or 4700 or 4910	3	CAPSTONE	
8	Free Elective	3		
8	Free Elective	3	Take enough Free Electives to reach 128 hours required for the degree	15-16
8	Free Elective	3		67
				61 transfer hours
				128 hours for graduation

Notes:

- A minor in chemistry can be completed by adding CHE 4581.

Residency Requirements:

- 32 hour must be taken at Appalachian
- 18 hours in the major must be from Appalachian
- 9 hours in the minor must be from Appalachian
- 50 hours must be completed at a 4-year university