

This four-year guide is a recommended semester-by-semester plan of study for this major. All four-year guides are meant as examples of how a degree can be completed in four years. Individual plans will be developed for each student in consultation with the academic advisor. Prior credit, course availability, and student needs must be considered in developing the individual plan.

How to use Appalachian State University's 4-year guides

- ***This guide will show you what CAA courses can be used in the major.***
- ***This is a suggested sequence of courses. It is up to students to determine when they will take specified courses.***
- ***Universal General Education Transfer Component (UGETC) courses that apply to the major are highlighted in gold.***
- ***“CC courses” are additional courses that fulfill community college requirements.***
- ***Refer to the community college degree program requirements to ensure the appropriate number of credit hours and course distributions are completed in each area.***
- ***The following are the UGETC requirements:***
 - 6 hours of English Composition
 - 9 hours of Humanities/Fine Arts from at least two disciplines (AA); 6 hours for (AS)
 - 9 hours of Social/Behavioral Sciences from at least two disciplines (AA); 6 hours for (AS)
 - 4 hours of Math (AA); 8 hours for (AS)
 - 4 hours of Science (AA); 8 hours for (AS)
- ***If a foreign language is not listed, it is not required for the major.***
- ***The recommended resources in the box below will provide additional information.***
- ***Please refer to specific major notes at the end of the 4-year guide.***

Appalachian General Education Guidelines

- ***Completion of the Associate in Arts or Associate in Science degree, with a “C” or better in all courses, fulfills Appalachian’s General Education requirements.***
- ***If not completing an AA/AS from a North Carolina Community College, only 30 hours of UGETC courses are guaranteed to transfer into Appalachian’s General Education Program.***
- ***For students transferring without an AA or AS:***
 1. A new General Education Program will be implemented Fall 2015 with the following requirements:
 - a. First Year Seminar (UCO 1200) is waived with 30 or more transferrable hours. (Applies to Transfer students only)
 - b. 6 credit hours of Writing Across the Curriculum (ENG 111 and 112)
 - c. 4 credit hours of Quantitative Literacy (Math or Statistics)
 - d. 2 credit hours of Wellness Literacy (PED 110 or HEA 110 is recommended)
 - e. 8 credit hours of Science Inquiry (2 UGETC science courses with labs)
 - f. 12 credit hours in the Liberal Studies Experience (LSE) from 3 different disciplines (Humanities/Social Science – UGETC)
 - g. 9 credit hours in the Integrative Learning Experience (ILE) – TBD
 - h. 3 credit hours each in Fine Arts, Historical Studies, Literary Studies, and Social Science must be taken as part of the Liberal Studies Experience and/or Integrative Learning Experience
 2. ***Please note:*** Some majors require course sequencing that may make it difficult to complete an AA or AS and then finish the degree in 4 additional semesters. Refer to the “Additional Notes” section at the end of each guide. Please contact your advisor for more information.

Recommended Resources

- [Course Equivalency Guide](#)
- [Placement test requirements](#)
- [Office of Transfer Articulation](#)
- [Advising – Prospective Students](#)

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Appalachian Course	Transfer Course	Credit Hours	Important Notes (Program of Study)
Semester One: [14 Credit Hours]			
ENG 1000	ENG 111	3	
CHE 1101 & 1110	CHM 151	4	
MAT 1110	MAT 271	4	See Notes
UCO 1200	HUM 220	3	Waived for transfer students w/ more than 30 transferrable hours. Requirement satisfied by completion of AA/AS.
Semester Two: [17 Credit Hours]			
CHE 1102 & 1120	CHM 152	4	
MAT 1120	MAT 272	4	
BIO 1801	NA	4	
Gen Ed Wellness Literacy	CC Course	2	PED 110, HEA 110, or 2 P.E. Activity Courses.
Gen Ed Course (ILE/LSE)	CC Course	3	With the help of your advisor, choose a course that meets the requirements of your community college program.
Semester Three: [18 Credit Hours]			
CHE 2201 & 2203	CHM 251	4	
FER 2000	NA	3	Offered Fall Semester only.
PHY 1150	PHY 251	5	See Notes.
ENG 2001	ENG 112	3	
Gen Ed Course (ILE/LSE)	CC Course	3	With the help of your advisor, choose a course that meets the requirements of your community college program.
Semester Four: [13 Credit Hours]			
CHE 2202 & 2204	CHM 252	4	
PHY 1151	PHY 252	5	See Notes.
CHE 2210 & 2211	NA	4	

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Appalachian Course	Transfer Course	Credit Hours	Important Notes
Semester Five: [16 Credit Hours]			
CHE 3301 & 3303	NA	4	Offered in Fall Semester Only [Writing in the Discipline].
BIO 2600	BIO 265	3	
NUT 3210	NA	3	
Gen Ed Course (ILE/LSE)	CC Course	3	With the help of your advisor, choose a course that meets the requirements of your community college program.
Free Elective	NA	3	List of recommended electives is on bottom of the Program Of Study.
Semester Six: [14 Credit Hours]			
CHE 3000	NA	1	
CHE 3560 & 3561	NA	3	Offered Spring Semester only.
BIO 3308 Microbiology	BIO 275	4	
FER 3200	NA	3	Offered Spring Semester only.
Gen Ed Course (ILE/LSE)	CC Course	3	With the help of your advisor, choose a course that meets the requirements of your community college program.
Semester Seven: [17 Credit Hours]			
CHE 4000	NA	1	CAPSTONE
CHE 4580 & 4581	NA	4	
FER 4100 OR Free Elective*	NA	3	FER 4100 – Offered Fall Semester only. (*CHE/FER 4200 may be taken last semester in lieu of this course; if choice is CHE/FER 4200, take Free Elective.)
Gen Ed Course (LSE/ILE)	CC Course	3	With the help of your advisor, choose a course that meets the requirements of your community college program.
Gen Ed Course (LSE/ILE)	CC Course	3	With the help of your advisor, choose a course that meets the requirements of your community college program.
Free Elective	NA	3	List of recommended electives is on bottom of Program Of Study.
Semester Eight: [15 Credit Hours]			
FER 4300	NA	3	Offered Spring Semester only.
CHE 3404	NA	3	Offered Spring Semester only.
CHE/FER 4200 or Free Elective*	NA	4	Offered Spring Semester only (*If FER 4100 taken previous semester, take Free Elective).
Gen Ed Course (LSE/ILE)	CC Course	3	With the help of your advisor, choose a course that meets the requirements of your community college program.
Free Elective	NA	2	Take enough hours to reach the minimum 122 hours required for degree. List of recommended electives is on bottom of Program Of Study.



North Carolina Community College
Transfer Four-Year Guide

BS, Chemistry
Fermentation Sciences
BS_214I
College of Arts and Sciences
Department of Chemistry
2014-2015

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Additional Notes:

- UCO 1200:
 - Waived for students with 30 or more transferrable hours
 - Students should take 3 s.h. of Free Electives, in lieu of UCO 1200, to meet hour requirements for degree.
 - Requirement satisfied by completion of AA/AS.
- Physics:
 - PHY 251 & 252 each transfer as four hour courses. The equivalent university courses, PHY 1150 & 1151, are each five hour courses. Students are required to make up the two hour difference to meet the 122 hours required for graduation.
- MAT 1110 (MAT 271):
 - MAT 1025 (MAT 171 & 172) may need to be taken as prerequisites to MAT 1110 (MAT 271), based on placement test and/or qualifying SAT/ACT scores. Students should consult their community college advisor for more information.
- Residency Requirements
 - 31 hours overall 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 completed at a four-year institution.

Departmental Contact Information: [Department of Chemistry](#)