

TRANSFER GUIDE/BDP

BS, Physics, Automation & Instrumentation
 Appalachian State University
 2021-2022

[Department of Physics & Astronomy](#)
[College of Arts & Sciences](#)
[Program of Study](#)

HOW-TO Use the Transfer Guide/BDP

The Transfer Guides/BDPs have three sections:

1. The NC Community College courses are listed in the top yellow section. Recommended and/or preferred courses are provided, with the equivalent Appalachian courses listed. If a specific course is not listed, students should use the blue hyperlink to access the [Comprehensive Articulation Agreement \(CAA\) transfer course list](#). Students are welcome to choose any CAA course; however, students should choose courses that are available at their institution and satisfy their transfer degree requirements.
2. Appalachian courses are listed in the middle gray section. Students will work with an Appalachian advisor to develop an individual graduation plan.
3. Important transfer and major information is listed in the bottom white sections. Students should refer to these sections for information regarding program requirements and other important information the department would like students to be aware of.

Please note - Transfer Guides/BDPs are developed based on the approved curriculum for that catalog year. Depending on term of entry and the curriculum posted for that catalog year, programs of study may have changed.

Community College Coursework: 61 Transfer hours		Associate in Science			
Semester	NCCC Course	Course Name	Hours	Appalachian Equivalent	Notes
Semester 1: 14 hours	ENG 111	Writing & Inquiry	3	RC 1000	
	MAT 171	Precalculus Algebra	4	MAT 1020	Prerequisite for MAT 172
	UGETC	Social Science	3		
	UGETC	Humanity/Fine Art	3		
	ACA 122	College Transfer Success	1		
	Semester hours			14	
Semester 2: 13 hours	NCCC Course	Course Name	Hours	Appalachian Equivalent	Notes
	ENG 112	Writing/Research in the Disciplines	3	RC 2001	
	MAT 172	Trigonometry	4	MAT 1025	Prerequisite for MAT 271
	UGETC	Humanity/Fine Art	3		
	UGETC	Social Science	3		
Semester hours			13		
Semester 3: 17 hours	NCCC Course	Course Name	Hours	Appalachian Equivalent	Notes
	MAT 271	Calculus I	4	MAT 1110	Required for the major - prerequisite to MAT 272
	PHY 151 or 251	Physics	4	PHY 1103 or 1150	Required for the major
	Pre-Major/GEC/Elective		3		
	Pre-Major/GEC/Elective		3		
	Pre-Major/GEC/Elective		3		
Semester hours			17		
Semester 4: 17 hours	NCCC Course	Course Name	Hours	Appalachian Equivalent	Notes
	MAT 272	Calculus II	4	MAT 1120	Required for the major - prerequisite to MAT 2130, Calculus III
	PHY 152 or 252	Physics	4	PHY 1104 or 1151	Required for the major
	Pre-Major/GEC/Elective		3		
	Pre-Major/GEC/Elective		3		
	Pre-Major/GEC/Elective		3		
Semester hours			17		
Total AS degree hours			61		

Appalachian Course Work: 60 hours				
Semester 5: 17 hours	Appalachian Course	Course Name	Hours	Notes
	PHY 2010	Intermediate Physics I	4	
	PHY 2110	Modern Physics I	3	
	CS 2435	Intro to Scientific Programming	4	
	Free Elective		3	
Semester hours			14	
Semester 6: 15 hours	Appalachian Course	Course Name	Hours	Notes
	PHY 2020	Intermediate Physics II	4	
	PHY 2700	Computer Interfacing	3	
	MAT 2130	Calculus III	4	
	Emphasis Area		3	
Free Elective		3		
Semester hours			17	
Semester 7: 15 hours	Appalachian Course	Course Name	Hours	Notes
	PHY 3310	Physics Lab Techniques and Data Analysis	3	Writing in the Discipline
	PHY 4330	Digital Electronics	4	
	Emphasis Area		3	
	Free Elective		3	
Semester hours			16	
Semester 8: 13 hours	Appalachian Course	Course Name	Hours	Notes
	PHY 4210	Methods of Experimental Physics	4	Capstone
	PHY 4730	Analog System	4	
	Free Elective		5	Take enough free elective to reach 120 hours
Semester hours			13	
Total Appalachian hours			60	

Applying to Appalachian:

- A minimum cumulative GPA of 2.25, from all post-secondary coursework, is required for admission to Appalachian.
- Students interested in applying to Appalachian should submit an on-line application and official college transcripts to be considered for admission.
- Students hoping to attend a summer or fall term are encouraged to apply by February 15th and those hoping to attend in the spring are encouraged to apply by October 15th.

Transfer Information:

- A minor is optional for this degree.
- Students will work with an Appalachian advisor, after transferring, to develop an individual graduation plan.

Transfer Resources:

- Online & Transfer Services** transfer.appstate.edu
- Office of Admissions** admissions.appstate.edu
- Office of Financial Aid** financialaid.appstate.edu
- Scholarships** scholarships.appstate.edu
- Career Development** careers.appstate.edu
- University Housing** housing.appstate.edu
- Off-Campus Housing** offcampushousing.appstate.edu
- Campus Activities** campusactivities.appstate.edu

Questions, please call Online & Transfer Services at 828-262-7877

