

Associate in Science (AS) to BS in Physics - Research

	ECU Course	ECU S.H.	NCCCS Course Equivalent
Freshman Year at Community College			
Fall Semester	COAD 1xxx	1	ACA 122
	ENGL 1100 (WI)	3	ENG 111
	MATH 1065	3	MAT 171
	CHEM 1150/1151	4	CHM 151
	Social Science	3	UGETC Courses
	KINE 1000	1	PED 110
	Total:	15	
Spring Semester	MATH 1083	3	MAT 172
	CHEM 1160/1161	4	CHM 152
	Social Science	3	UGETC Courses
	Humanities/Fine Arts	3	UGETC Courses
	HLTH 1000	2	HEA 110
	Total:	15	
Sophomore Year at Community College			
Fall Semester	ENGL 2201 (WI)	3	ENG 112
	MATH 2171	4	MAT 271
	Humanities/Fine Arts	3	UGETC Courses
	CAA Premajor/Elective	4	CAA Premajor/Elective
	Total:	14	
Spring Semester	MATH 2172	4	MAT 272
	PHYS 2350 (+1251) ¹	4	PHY 251
	CAA Premajor/Elective	7	CAA Premajor/Elective
	Total:	15	
Junior Year at East Carolina University			
Fall Semester	MATH 2173	4	MAT 273
	PHYS 2360 (+1261) ¹	5	PHY 252
	General Electives	Varies	ECU or CC Transferrable Courses
	Total:	TBD	
Spring Semester	PHYS 3700, 3701 (WI)	3	No Equivalent
	PHYS 4120 ³	3	No Equivalent
	MATH 4331	3	MAT 285
	General Electives	Varies	ECU or CC Transferrable Courses
	Total:	TBD	
Summer Session(s) at East Carolina University			
Summer Session	PHYS Electives above 2999 ²	6	No Equivalent
	Total:	6	
Senior Year at East Carolina University			
Fall Semester	PHYS 4416	3	No Equivalent
	PHYS 4226	3	No Equivalent
	PHYS 4326	3	No Equivalent
	General Electives	Varies	ECU or CC Transferrable Courses
	Total:	TBD	
Spring Semester	PHYS 4410	3	No Equivalent
	PHYS 4417	3	No Equivalent
	PHYS 4560	3	No Equivalent
	General Electives	Varies	ECU or CC Transferrable Courses
	Total:	TBD	

Minimum S.H. Required for Degree 120

The bachelor of science in physics has three concentrations – practical, professional, and research. The practical concentration is for students interested in entry into business fields requiring a technical background or in graduate study in business, education, the humanities, or the social sciences, depending on elective choices. The professional concentration is for students interested in employment in technical fields, teaching physics and physical science in secondary schools, or in graduate study in health fields (e.g. dentistry, medicine, and physical therapy), business, engineering, environmental science, or related technical fields, depending on elective choices. The research concentration is for students interested in graduate study in physics.

¹The PHYS 1251 and 1261 lab requirements may be waived with successful completion of PHY 251 and 252. Students will be required to complete an additional 2 s.h. of credit to replace the lab requirement hours.

²Electives can include a maximum of 3 s. h. of independent study courses (PHYS 3516, PHYS 3517, PHYS 3518, PHYS 3716, PHYS 3717, and PHYS 3718).

³Offered Spring semesters, odd years.

All guides are meant as an example of how a degree can be completed. However, individual plans will be developed for each student in consultation with the academic advisor. Course availability, prior credit, course prerequisites, major requirements, and student needs must be considered in developing the individual academic pathway.