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

	ECU Course	ECU S.H.	NCCCS Course Equivalent
	Freshman Year at (Community Co	llege
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 Co	ollege
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	
	Total: Junior Year at East		rsity
Fall Semester			ersity MAT 273
Fall Semester	Junior Year at East	Carolina Unive	
Fall Semester	Junior Year at East MATH 2173	Carolina Unive	MAT 273
Fall Semester	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹	Carolina Unive	MAT 273 PHY 252
Fall Semester Spring Semester	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI)	Carolina University 4 5 Varies	MAT 273 PHY 252
	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total:	Carolina University 4 5 Varies TBD	MAT 273 PHY 252 ECU or CC Transferrable Courses
	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI)	Carolina University 4 5 Varies TBD 3	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent
	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI) PHYS 4120 ³	Carolina University 4 5 Varies TBD 3 3	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent No Equivalent
	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI) PHYS 4120 ³ MATH 4331	Carolina University 4 5 Varies TBD 3 3 3	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent No Equivalent MAT 285
	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI) PHYS 4120 ³ MATH 4331 General Electives Total: Summer Session(s) at E	Carolina University 4 5 Varies TBD 3 3 Varies TBD	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent No Equivalent MAT 285 ECU or CC Transferrable Courses
	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI) PHYS 4120 ³ MATH 4331 General Electives Total:	Carolina University 4 5 Varies TBD 3 3 Varies TBD	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent No Equivalent MAT 285 ECU or CC Transferrable Courses
Spring Semester	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI) PHYS 4120 ³ MATH 4331 General Electives Total: Summer Session(s) at E	Carolina University 4 5 Varies TBD 3 3 Varies TBD TBD	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent No Equivalent MAT 285 ECU or CC Transferrable Courses
Spring Semester	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI) PHYS 4120 ³ MATH 4331 General Electives Total: Summer Session(s) at II PHYS Electives above 2999 ²	Carolina University 4 5 Varies TBD 3 3 Varies TBD Cast Carolina U 6 6	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent No Equivalent MAT 285 ECU or CC Transferrable Courses niversity No Equivalent
Spring Semester	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI) PHYS 4120 ³ MATH 4331 General Electives Total: Summer Session(s) at I PHYS Electives above 2999 ² Total:	Carolina University 4 5 Varies TBD 3 3 Varies TBD Cast Carolina U 6 6	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent No Equivalent MAT 285 ECU or CC Transferrable Courses niversity No Equivalent
Spring Semester Summer Session	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI) PHYS 4120 ³ MATH 4331 General Electives Total: Summer Session(s) at E PHYS Electives above 2999 ² Total: Senior Year at East	Carolina University 4 5 Varies TBD 3 3 Varies TBD East Carolina University	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent No Equivalent MAT 285 ECU or CC Transferrable Courses niversity No Equivalent
Spring Semester Summer Session	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI) PHYS 4120 ³ MATH 4331 General Electives Total: Summer Session(s) at I PHYS Electives above 2999 ² Total: Senior Year at East PHYS 4416	Carolina University 4 5 Varies TBD 3 3 Varies TBD East Carolina U 6 6 Carolina Univers 3	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent No Equivalent MAT 285 ECU or CC Transferrable Courses niversity No Equivalent No Equivalent No Equivalent
Spring Semester Summer Session	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI) PHYS 4120 ³ MATH 4331 General Electives Total: Summer Session(s) at 6 PHYS Electives above 2999 ² Total: Senior Year at East PHYS 4416 PHYS 4226	Carolina University 4 5 Varies TBD 3 3 Varies TBD East Carolina U 6 6 Carolina University 3 3	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent No Equivalent MAT 285 ECU or CC Transferrable Courses niversity No Equivalent No Equivalent No Equivalent No Equivalent No Equivalent
Spring Semester Summer Session	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI) PHYS 4120 ³ MATH 4331 General Electives Total: Summer Session(s) at II PHYS Electives above 2999 ² Total: Senior Year at East PHYS 4416 PHYS 4226 PHYS 4326	Carolina University 4 5 Varies TBD 3 3 Varies TBD 6 6 Carolina Univers 3 3 3	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent No Equivalent MAT 285 ECU or CC Transferrable Courses niversity No Equivalent No Equivalent No Equivalent No Equivalent No Equivalent No Equivalent No Equivalent
Spring Semester Summer Session	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI) PHYS 4120 ³ MATH 4331 General Electives Total: Summer Session(s) at E PHYS Electives above 2999 ² Total: Senior Year at East PHYS 4416 PHYS 4226 PHYS 4326 General Electives	Carolina University 4 5 Varies TBD 3 3 Varies TBD 6 6 Carolina University 3 3 Varies	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent No Equivalent MAT 285 ECU or CC Transferrable Courses niversity No Equivalent No Equivalent No Equivalent No Equivalent No Equivalent No Equivalent No Equivalent
Spring Semester Summer Session Fall Semester	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI) PHYS 4120 ³ MATH 4331 General Electives Total: Summer Session(s) at E PHYS Electives above 2999 ² Total: Senior Year at East PHYS 4416 PHYS 4226 PHYS 4326 General Electives Total:	Carolina University 4 5 Varies TBD 3 3 Varies TBD 6 6 Carolina Univers 3 3 Varies TBD TBD	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent No Equivalent MAT 285 ECU or CC Transferrable Courses niversity No Equivalent No Equivalent No Equivalent No Equivalent Sersity No Equivalent No Equivalent ECU or CC Transferrable Courses
Spring Semester Summer Session Fall Semester	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI) PHYS 4120 ³ MATH 4331 General Electives Total: Summer Session(s) at I PHYS Electives above 2999 ² Total: Senior Year at East PHYS 4416 PHYS 4226 PHYS 4326 General Electives Total: PHYS 4410	Carolina University 4 5 Varies TBD 3 3 Varies TBD 6 6 Carolina Univers 3 3 Varies TBD 3 3 3 Varies 3 3 Varies TBD 3	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent No Equivalent MAT 285 ECU or CC Transferrable Courses niversity No Equivalent ECU or CC Transferrable Courses No Equivalent
Spring Semester Summer Session Fall Semester	Junior Year at East MATH 2173 PHYS 2360 (+1261) ¹ General Electives Total: PHYS 3700, 3701 (WI) PHYS 4120 ³ MATH 4331 General Electives Total: Summer Session(s) at F PHYS Electives above 2999 ² Total: Senior Year at East PHYS 4416 PHYS 4226 PHYS 4326 General Electives Total: PHYS 4410 PHYS 4417	Carolina University 4 5 Varies TBD 3 3 Varies TBD 6 6 Carolina Univers 3 3 Varies TBD 3 3 3 Varies TBD 3 3 3 3 3 4 3 4 3 3 3 3 4 3 3 3 3 4 3 3 4 3 3 3 3 4 3 3 4 3 3 3 4 3 4 3 3 3 4 3 4 3 3 3 4 4 3 3 3 4 3 4 3 3 4 3 4 3 3 4 3 4 3 3 4 3 4 3 3 4 3 4 3 3 4 3 4 3 3 4 3 4 3 3 4 3 4 3 3 4 3 4 3 3 4 3 4 3 3 4 3 4 3 3 4 3 4 3 3 4 3 4 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	MAT 273 PHY 252 ECU or CC Transferrable Courses No Equivalent MAT 285 ECU or CC Transferrable Courses niversity No Equivalent No Equivalent No Equivalent Courses No Equivalent No Equivalent No Equivalent No Equivalent ECU or CC Transferrable Courses No Equivalent No Equivalent ECU or CC Transferrable Courses

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.

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.

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.