

Coastal Carolina University

BSc. Engineering Science Program Course Checklist

PHYSICS CONCENTRATION	
Academic Year 1, Fall Term (AY1-FA)	Academic Year 1, Spring Term (AY1-SP)
<input type="checkbox"/> UNIV 110 Q – First Year Experience (3)	<input type="checkbox"/> ENGL 102 – Composition and Critical Reading (4)
<input type="checkbox"/> ENGL 101 – Composition (4)	<input type="checkbox"/> MATH 161 – Calculus II (4)
<input type="checkbox"/> MATH 160 – Calculus I (4)	<input type="checkbox"/> PHYS 214 – Fundamentals of Physics II (3)
<input type="checkbox"/> PHYS 211 – Essentials of Physics I (3)	<input type="checkbox"/> PHYS 214L – Fundamentals of Physics II Lab (1)
<input type="checkbox"/> PHYS 211L – Essentials of Physics I Lab (1)	<input type="checkbox"/> CSCI 135 – Introduction to Programming (3)
<input type="checkbox"/> ENGR 101 – Inquiring Minds Want to Design: Introduction to Engineering (3)	<input type="checkbox"/> ENGR 102 – Engineering Graphics Communication (3)
Academic Year 2, Fall Term (AY2-FA)	Academic Year 2, Spring Term (AY2-SP)
<input type="checkbox"/> Core: Critical Thinking and Reasoning (3)	<input type="checkbox"/> STAT 201 – Elementary Statistics (3)
<input type="checkbox"/> PHIL 102 – Introduction to Ethics: Engineering Ethics (3)	<input type="checkbox"/> STAT 201L – Elementary Statistics Computer Lab (1)
<input type="checkbox"/> MATH 260 – Calculus III (4)	<input type="checkbox"/> CHEM 111 – General Chemistry I (3)
<input type="checkbox"/> ENGR 234 – Engineering Mechanics I: Statics (3)	<input type="checkbox"/> CHEM 111L – General Chemistry Lab I (1)
<input type="checkbox"/> ENGR 202 – Engineering Problem Solving (3)	<input type="checkbox"/> ENGR 235 – Electric Circuits (3)
<input type="checkbox"/> ENGR 199 – Cohort Grand Challenge I (1)	<input type="checkbox"/> ENGR 244 – Engineering Mechanics II: Dynamics (3)
<input type="checkbox"/> ENGR 299 – Cohort Grand Challenge II (1)	<input type="checkbox"/> PHYS 250 – Communicating STEM (3)
Academic Year 3, Fall Term (AY3-FA)	Academic Year 3, Spring Term (AY3-SP)
<input type="checkbox"/> Core: Artistic Expression (3)	<input type="checkbox"/> Core: Human and Social Behavior I (3)
<input type="checkbox"/> Select ONE (3):	<input type="checkbox"/> Core: Foreign Language (5)
<input type="checkbox"/> HIST 201 – History of the United States ...	<input type="checkbox"/> ENGR 333 – Engineering Fluid Mechanics (3)
<input type="checkbox"/> POLI 201 – Introduction to American Government	<input type="checkbox"/> PHYS 310 – Mathematical Methods for Scientists and Engineers (3)
<input type="checkbox"/> MATH 320 – Elemen. Differential Equations (3)	
<input type="checkbox"/> ENGR 302 – Materials Science for Engineers (3)	
<input type="checkbox"/> ENGR 323 – Engineering Thermodynamics and Heat Transfer (3)	
<input type="checkbox"/> ENGR 203 Engineering Professionalism and Pathways (3)	
Academic Year 4, Fall Term (AY4-FA)	Academic Year 4, Fall Term (AY4-FA)
<input type="checkbox"/> Core: Human and Social Behavior II (3)	<input type="checkbox"/> Core: Humanistic Thought II (3)
<input type="checkbox"/> ENGR 399 – Integrated Science and Design (2)	<input type="checkbox"/> ENGR 499Q – Senior Design (2)
<input type="checkbox"/> PHYS 351 – Computational Methods for Scientists and Engineers (3)	<input type="checkbox"/> ENGR Selective Elective – Select ONE (3):
<input type="checkbox"/> ENGR 495 – Engineering Internship (3)	<input type="checkbox"/> ENGR 315 – Electric Power and Renewable Energy
<input type="checkbox"/> ENGR – Professional Enhancement Selective Elective IV (2)	<input type="checkbox"/> ENGR 321 – Electronics
	<input type="checkbox"/> ENGR 450 – Radiation Detection and Measurement
	<input type="checkbox"/> PHYS 352 – Experimental Methods for Scientists and Engineers (3)
	<input type="checkbox"/> ENGR – Professional Enhancement Selective Elective V (2)

Professional Enhancement Selective Elective IV and V: 1-4 credits of ENGR 495, ENGR 397, CCU Abroad or other approved experiences

Engineering courses offered both fall and spring terms: ENGR 234, ENGR 202, ENGR 244, ENGR 323, ENGR 333