

Bachelor of Science in Physics

FALL	YEAR 1		SPRING
‡UK Core CC1	3	‡UK Core CC2	3
MA: 113: Calculus I (UK Core QFO)	4	MA 114: Calculus II	4
PHY 231: General Univ Physics I (UK Core NPM)	4	PHY 228: Optics, Relativity and Thermal Physics	3
PHY 241: General Univ Physics I lab (UK Core NPM)	1	CHE 107: General Chemistry II	3
CHE 105: General Chemistry I	4	CS 115: Intro to Programming (OR 200+ Related Elective)	3
Total Credits: 16		Total Credits: 16	
FALL	YEAR 2		SPRING
⌘Foreign Language 101	3	⌘Foreign language 102	3
PHY 232: General Univ Physics II (A&S Core NS)	4	UK Core SIR (STA 210: Intro to Statistical Reasoning)	3
PHY 242: General Univ Physics II Lab (A&S Core Lab)	1	MA 214: Calculus IV	3
PHY 335: Data Analysis for Physicists *FA only	2	PHY 306: Theoretical Methods of Physics **SP only	3
MA 213: Calculus III	4	PHY 361: Principles of Modern Physics **SP only	3
Total Credits: 14		Total Credits: 15	
FALL	YEAR 3		SPRING
⌘Foreign language 201	3	⌘Foreign language 202	3
UK Core ACR	3	UK Core HUM	3
PHY 404G: Mechanics *FA only	3	UK Core SSC	3
PHY 416G: Electricity and Magnetism I *FA only	3	PHY 417G: Electricity and Magnetism II **SP only	3
MA 322: Matrix Algebra (OR 200+ Related Elective)	3	AST/PHY 395; or PHY 435 or PHY 508 **SP only	3
Total Credits: 15		Total Credits: 15	
FALL	YEAR 4		SPRING
➤UK Core GDY	3	UK Core CCC	3
A&S SS	3	A&S HUM (PHI 200+)	3
PHY 402G: Electronic Instrumentation *FA only (OR Additional Physics Lab Requirement)	3	PHY 521: Introduction to Quantum Mechanics II **SP only	3
PHY 520: Intro to Quantum Mechanics *FA only	3	PHY 535 (GCCR): Advanced Physics Laboratory **SP only	3
PHY 522: Thermodynamics Statistical PHY *FA only	3	◇ Elective	3
Total Credits: 15		Total Credits: 15	

- ‡ Incoming Students are Strongly Encouraged to take WRD 112 to fulfill the CC1 and CC2 requirements if they have any of the following: an ACT English score of 32 or Higher, an SAT Verbal score of 720 or Higher, or an AP English Composition score of 4 or 5. If the Student has been accepted into the University Honors Program, the Student is required to take WRD 112 to fulfill CC1 and CC2.
- ⌘ Students who have taken at least 2 years of a language in high school can complete the A&S Foreign Language Requirement with 3 college semesters of a different language. Students choosing this option should replace the 4th semester of language with electives. Also note that if you take a foreign language placement exam, you may be exempt from 1 or more of the beginning semesters of that language. In this case, replace the by-passed language courses with electives. Any language sequence may be used to satisfy the foreign language requirements.
- ◇ 6 hours of 'free' electives - that do not count toward any other requirement - must be taken. Additional electives may be required to reach the required minimum of 120 hours. Consider pursuing a 2nd major or minor.
- Many People, One Community: The college of Arts & Sciences requires its students to complete an approved course related to Many People, One Community. Students may double-dip courses to satisfy the MPOC requirement with any other requirement, e.g. UK Core, college requirements (except the A&S Electives), or major requirements.

UK Core Abbreviations	CC1= Composition and Communication I
HUM =Intellectual Inquiry in the Humanities	CC2= Composition and Communication II
NPM=Intellectual Inquiry in the Natural/Physical/Mathematical Science	QFO= Quantitative Foundations
SSC=Intellectual Inquiry in Social Sciences	SIR= Statistical Inferential Reasoning
ACR=Intellectual Inquiry in Arts & Creativity	CCC= Community, Culture and Citizenship in U.S.
	GDY= Global Dynamics
	GCCR = Graduation Composition and Communication
College of Arts & Sciences Abbreviations	
SS: Social Sciences	NS: Natural Sciences
Lab: College Laboratory or Field Experience	HUM: Humanities