

4-YEAR CURRICULAR MAP

Bachelor of Science in Physics

FALL	YEAR 1		SPRING
‡UK Core CC1	3	UK Core CC2	3
UK Core QFO (MA113: Calculus I <u>AND</u> MA 193: Supp. Math Workshop I)	5	MA 114: Calculus II <u>AND</u> MA 194: Supp. Math Workshop II	5
UK Core NPM (PHY 231: General Univ. Physics I)	4	PHY 228: Optics, Relativity and Thermal Physics	3
UK Core NPM (PHY 241: General Univ. Physics Lab I)	1	CHE 107: General Chemistry II	3
CHE 105: General Chemistry I	4	CS 115: Intro to Programming (<u>OR</u> 200+ Related Elective)	3
Total Credits: 17		Total Credits: 17	
FALL	YEAR 2		SPRING
‡Foreign language 101	4	‡Foreign language 102	4
A&S NS (PHY 232: General Univ. Physics II)	4	UK Core SIR (STA 210: Intro to Statistical Reasoning)	3
A&S Lab (PHY 242: General Univ. Physics Lab II)	1	MA 214: Calculus IV	3
PHY 335: Data Analysis for Physicists	1	PHY 306: Theoretical Methods of Physics	3
MA 213: Calculus III	4	PHY 361: Principles of Modern Physics	3
Total Credits: 14		Total Credits: 16	
FALL	YEAR 3		SPRING
‡Foreign language 201	3	‡Foreign language 202	3
UK Core ACR	3	UK Core HUM	3
PHY 404G: Mechanics	3	UK Core SSC	3
PHY 416G: Electricity and Magnetism I	3	PHY 417G: Electricity and Magnetism II	3
MA 322: Matrix Algebra (<u>OR</u> 200+ Related Elective)	3	AST/PHY 395, PHY 435 or PHY 508	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 (<u>OR</u> Additional Physics Lab Requirement)	3	PHY 521: Introduction to Quantum Mechanics II	3
PHY 520: Introduction to Quantum Mechanics	3	PHY 535 (GCCR): Advanced Physics Laboratory	3
◇ Elective	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.

* To be discussed with your academic advisor. Consider pursuing a 2nd major or minor.

‡ 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.

UK Core Abbreviations

HUM =Intellectual Inquiry in the Humanities
NPM=Intellectual Inquiry in the Natural/Physical/Mathematical Science
SSC=Intellectual Inquiry in Social Sciences
ACR=Intellectual Inquiry in Arts & Creativity

CC1= Composition and Communication I
CC2= Composition and Communication II
QFO= Quantitative Foundations
SIR= Statistical Inferential Reasoning
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