

4-YEAR CURRICULAR MAP

Bachelor of Science in Physics

BA in MCL



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	
‡Language 101	4	‡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
MCL 200				Total Credits: 16	
Total Credits: 17					
FALL		YEAR 3		SPRING	
‡ Lang 201	3	‡ Language 202			3
UK Core GDY Language Course 1	3	UK Core HUM: MCL 100			3
PHY 404G: Mechanics	3	UK Core SSC- MCL Cross Cultural			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 Abroad		SPRING	
Language Course 2	3	Language Course 5			3
Language Course 3	3	Language Courses 6-9: Internship			[12 credits]
Language Course 4	3				
A&S Social Science	3				
Total Credits: 12				Total Credits: 15	
FALL		YEAR 4		SPRING	
UK Core ACR	3	UK Core CCC			3
◊ Elective MCL 495 (GCCR)	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
Language Course 10	3	A&S SS			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.

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
	SIR= Statistical Inferential Reasoning

SSC=Intellectual Inquiry in Social Sciences
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