

BACHELOR OF SCIENCE IN PHYSICS

Catalogue

Major: MATHEMATICS

2022-2023

Student: _____

Date: _____

netID: _____

Advisor: _____

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
CEMS 050 - CEMS First Year Seminar (opt)	1		QR: MATH 022 - Calculus II	4	
PHYS 031 or PHYS 051	4		PHYS 125 and PHYS 022, or PHYS 152	4	
QR: MATH 021 - Calculus I	4		HCOL 086 / General Education	3	
CHEM 031 - General Chemistry	4		D1 / Humanities & Social Science Course	3	
HCOL 085 (FWIL)	3		CHEM 032 - General Chemistry 2	4	
PHYS 030 (opt)	1				
<i>Total credits</i>	<i>15-17</i>		<i>Total credits</i>	<i>18</i>	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
QR: MATH 121 - Calculus III	4		QR: MATH 122 or 124 - (Applied) Linear Algebra	3	
PHYS 128 - Waves and Quanta	4		PHYS 211 - Classical Mechanics	3	
Humanities & Social Science Course ¹	3		Humanities & Social Science Course ¹	3	
HCOL 185 / Sustainability	3		*Concentration Course	3	
*Concentration Course	3		HCOL 186 / D1/D2	3	
<i>Total credits</i>	<i>17</i>		<i>Total credits</i>	<i>15</i>	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
PHYS 213 - Electricity and Magnetism	3		*Concentration Course	3	
PHYS 256 or CS 021- Comp. Physics/Programming I	3		*Concentration Course	3	
Humanities & Social Science Course ¹	3		*Concentration Course	3	
QR: MATH 230 - Ordinary Differential Equations	3		Humanities & Social Science Course ¹	3	
*Concentration Course	3		Humanities & Social Science Course ¹	3	
CEMS 101 - HCOL Research Experience	1		CEMS 102 - HCOL Research Experience	1	
<i>Total credits</i>	<i>16</i>		<i>Total credits</i>	<i>16</i>	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
PHYS 273 - Quantum Mechanics I	3		PHYS 274- Quantum Mechanics	3	
*Concentration Course	3		Humanities & Social Science Course ¹	3	
*Concentration Course/Free Elective	3		*Concentration Course/Free Elective	3	
*Concentration Course/Free Elective	3		Humanities & Social Science Course ¹	3	
<i>Senior Seminar 1</i>	<i>3</i>		<i>Senior Seminar 2</i>	<i>3</i>	
<i>Total credits</i>	<i>15</i>		<i>Total credits</i>	<i>15</i>	

Minimum Total Credits Required for Degree: 120

- *1. See the different concentration options in the catalogue. These include pure physics, mechanical engineering, civil and environmental engineering, electrical engineering (signals and systems or circuits and devices), or astrophysics.
- 2. Humanities & Social Sciences: Twenty-four credits of courses selected from Categories I, II, and III listed in the Catalogue (I: Language & Literature, II: Humanities & Fine Arts, III: Social Sciences). See Catalogue for full list of courses. Students are encouraged to use these courses to fulfill the University Requirements - Diversity (D1/D2), Sustainability (SU), and Foundational Writing & Information Literacy (FWIL). Note the Quantitative (QR) reasoning is fulfilled by core

This document is an advising tool and should be used in combination with a student's degree audit, as well as the