

Bachelor of Science 2021-22 AY**Physics Engineering****Major Code PH01****CIP Code: 400801****Cr Hrs**

General Education CORE 42 Requirements 42*		32
Area 1A	Social & Behavioral Sciences	6
Area 1B	Civic Engagement	3
Area 2A	Written Communication	6
Area 2B	Oral Communication	3
Area 3A	Natural Science Non-Lab (CHEM 140)	
Area 3B	Natural science With Lab (PHYS 270)	
Area 4	Mathematics (MATH 130)	
Area 5A	Humanities	6
Area 5B	Fine Arts	3
Area 5C	Global Competencies	3
Area 5D	Health and Wellness	2
UE 100	First Year Experience**	1
Physics Requirements		38
PHYS 270	General Physics I***	4
PHYS 290	General Physics II	4
PHYS 291	General Physics II Lab	1
PHYS 301	Modern Physics***	4
PHYS 322	Classical Mechanics***	3
PHYS 341	Thermal Physics***	4
PHYS 350	Optics	3
PHYS 372	Electronic for Experimental Physicists***	4
PHYS 381	Intermediate Physics Laboratory***	3
PHYS 401	Electricity & Magnetism***	4
PHYS 452	Quantum Mechanics*** (3)	
OR		
PHYS 480	Selected Topics in Physics & Engineering	3
PHYS 490	Seminar	1
Supporting Requirements		24
CHEM 140	General Chemistry I***	3
CHEM 141	General Chemistry I Lab***	2
MATH 150	Calculus with Analytical Geometry I***	5
MATH 250	Calculus with Analytical Geometry II***	4
MATH 260	Calculus with Analytical Geometry III***	4
MATH 322	Differential Equations***	3
CIS 110	Programming I	3
Electives****		25
Total Hours	Must include at 39 upper division (300-400) hrs	120

Gen. Ed. Core 42 Requirements: Area 3A&B satisfied by CHEM 140 and PHYS 270 (7 hrs), Area 4 satisfied by MATH 150 (3 hrs)

*** See prerequisites

****Suggested electives CHEM 142, CIS 210, MATH 322, MATH 351