

Name_	
Student ID	
Date	

2025-26 Bachelor of Science in Engineering Physics Checklist

2023 20 Buchelor of Science in Engineering	- Try 5105 GITCOMISC		
TRANSFORMATIONAL JOURNEY PROGRAM (TJP)			
First Year Experience (3 credits)	Engineering Physics Major Core Requirements (30 hours)		
FYS 110 First Year Seminar	MAT 230 Calculus I	4	
	MAT 231 Calculus II	4	
Faith and Ethics (9 credits)	PHY 201 University Physics I	4	
THL 105 Introduction to Theology	PHY 202 University Physics II	4	
PHL 130 Human Nature & Person	PHY 212 Modern Physics	4	
Second THL*	PHY 220 Astrophysics and Cosmology	3	
	PHY 440 Intro. to Nanotech. and Nanosystems	3	
Scientific Problem Solving	PHY 460 or 498 Physics Internship/Research	2	
Fulfilled by major requirements	PHY 490 Senior Seminar	2	
Quantitative Problem Solving	Engineering Physics Major Requirements (6 – 7 hours	s)	
Fulfilled by major requirements	(CHOOSE 2)	_	
	CHE 325 Physical Chemistry	4	
Civics Problem Solving (3 credits)	PHY 330 Electricity and Magnetism	3	
EGR 317 Engineering Economics	PHY 350 Biophysics	3	
BUS 109 Business Plan Competition			
HIS 100 Civics and Democratic Engagement	Engineering Physics Electives (EGR 200 and above,		
	CST 200 and above, MAT 305 and above,		
Communication (6 credits)	CHE 300 or 425) (24 hours)		
ENG 112 Writing and Community		_	
COM 101 Public Speaking		_	
Cultural and Global Awareness (6 credits)		_	
World Language (determined by placement)		_	
One of the following courses:		_	
GLS 101 Global Perspectives		_	
HUM 210 Meaning Through Culture		_	
		_	
Health and Well-Being (6 credits)	Elective Credits (Including Minor) (35 hours)		
HWB 110 Holistic Health: Mind, Body, and Spirit	, , , ,		
One of the following courses:		_	
PSY 101 General Psychology		_	
PSY 220 Human Growth and Development		_	
SOC 101 Introduction to Sociology		_	
		_	
Broad Integrative Knowledge Outside Major**		_	
a. Completion of a minor		_	
b. Completion of a second major			
c. Completion of a Pathway	Total Earned Hours 128	2	
*Please refer to catalog or MUHUB Progress tab for a	Total Lameu Hours126	' —	
complete list of courses that meet these requirements.			
**Please refer to catalog or MUHUB Progress tab for a			
description of acceptable major/minor options.			
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2025-26 Bachelor of Science in Engineering Physics Sample Four-Year Plan

Year One									
Fall Semester			Spring Semester						
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
Major: Calculus I	MAT 230	4	Major: Calculus II	MAT 231	4				
Elective: Intro to Engineering	EGR 101	3	Major: University Physics I	PHY 201	4				
Elective: Programming for Engineers	EGR 151	3	Elective: Computer Aided Design	EGR 156	3				
TJP: First Year Seminar	FYS 110	3	TJP: Holistic Health	HWB 110	3				
TJP: Public Speaking	COM 101	3	TJP: Writing and Community	EGR 155	3				
Semester Hours	16		Semester Hours	17					
Cumulative Hours	16		Cumulative Hours		33				
Year Two									
Fall Semes	Fall Semester			Spring Semester					
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
Major: University Physics II	PHY 202	4	Major: Modern Physics	PHY 212	4				
Major: Elective	EGR XXX	3	Major: Elective	EGR XXX	3				
Major: Elective	EGR XXX	3	Major: Elective	EGR XXX	3				
Elective: Minor		3	TJP: Human Nature & Person	PHL 130	3				
TJP: Intro to Theology	THL 105	3	Elective: Minor		3				
Semester Hours		16	Semester Hours	16					
Cumulative Hours		49	Cumulative Hours		65				
		Year 7	Three						
Fall Semes	ter		Spring Semester						
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
Major: Astrophysics and Cosmology	PHY 220	3	Major: Elective	EGR XXX	3				
Major: Electricity and Magnetism	PHY 330	3	Major: Elective	EGR XXX	3				
Major: Elective	EGR XXX	3	TJP: Civics	HIS/BUS	3				
TJP: Second Theology	THL 2XX	3	TJP: World Language	Language	3				
Elective: Minor		3	Elective: Minor		3				
			Elective: Minor		3				
Semester Hours		15	Semester Hours		18				
Cumulative Hours		80	Cumulative Hours		98				
		Year	Four						
Fall Semes	Fall Semester		Spring Seme	ester					
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
Major: Biophysics	PHY 350	3	Major: Intro to Nano	PHY 440	3				
Major: Internship	PHY 460	2	Major: Elective	EGR XXX	3				
Major: Senior Seminar	PHY 490	2	Elective		3				
Elective		3	Elective		2				
Elective		3	TJP: Social Science	PSY/SOC	3				
TJP: Cultural/Global	HUM/GLS	3							
Semester Hours		16	Semester Hours	14					
Cumulative Hours		114	Cumulative Hours		128				

^{*}A minimum 2.0 cumulative GPA and a minimum 2.0 major GPA are required for graduation, so monitor your GPA closely. To meet degree requirements, some disciplines require higher grades in each course or a higher cumulative GPA.

This plan is only a sample and will vary by student and course availability.