MARIAN UNIVERSITY —— Indianapolis ——— ®

Name	 	
Student ID_	 	

Date_____

TRANSFORMATIONAL JOURNEY PROGRAM (TJP) First Year Experience (3 credits)	Engineering Physics Major Core Requirements (30 h	ours
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 hou	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	<u> </u>	
COM 101 Public Speaking		
Cultural and Global Awareness (6 credits)		
World Language (determined by placement)		
Wond Language (determined by placement)		
GIS 101 Global Perspectives		
HUM 210 Meaning Through Culture		
Uppleh and Mall Pains (C anadiss)		
HWR 110 Holistic Hoalth: Mind Rody and Spirit	Elective Creatis (including winter) (35 hours)	
HWB 110 Holistic Health. Willia, Body, and Spirit		
PSV 101 Conoral Psychology		
FST IDI General Psychology		
PST 220 Human Growth and Development		
Broad Integrative Knowledge Outside Major**		
a. Completion of a minor		
b. Completion of a second major		
c. Completion of a Pathway	Total Earned Hours12	8
*Please refer to catalog or MUHUB Progress tab for a		
complete list of courses that meet these requirements.		
**Please refer to catalog or MUHUB Progress tab for a		
description of acceptable major/minor options.		

MARIAN UNIVERSITY

2024-25 B.S. Engineering Physics Major 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 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 1	Three							
Fall Semes	Fall Semester			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	2								
Elective: Minor		5	TJP: World Language	Language	3					
		3	TJP: World Language Elective: Minor	Language	3 3					
		3	TJP: World Language Elective: Minor Elective: Minor	Language	3 3 3					
Semester Hours		3 3 15	TJP: World Language Elective: Minor Elective: Minor Semester Hours	Language	3 3 3 18					
Semester Hours Cumulative Hours		3 3 15 80	TJP: World Language Elective: Minor Elective: Minor Semester Hours Cumulative Hours	Language	3 3 3 18 98					
Semester Hours Cumulative Hours		3 3 15 80 Year	TJP: World Language Elective: Minor Elective: Minor Semester Hours Cumulative Hours Four	Language	3 3 3 18 98					
Semester Hours Cumulative Hours Fall Semes	ter	3 3 15 80 Year	TJP: World Language Elective: Minor Elective: Minor Semester Hours Cumulative Hours Four Spring Seme	Language	3 3 18 98					
Semester Hours Cumulative Hours Fall Semes Requirement Category	ter Course	3 3 15 80 Year Credit Hrs	TJP: World Language Elective: Minor Elective: Minor Semester Hours Cumulative Hours Four Spring Seme Requirement Category	Language	3 3 18 98 Credit Hrs					
Semester Hours Cumulative Hours Fall Semes Requirement Category Major: Biophysics	ter Course PHY 350	3 3 15 80 Year Credit Hrs 3	TJP: World Language Elective: Minor Elective: Minor Semester Hours Cumulative Hours Four Requirement Category Major: Intro to Nano	Language ster Course PHY 440	3 3 18 98 Credit Hrs 3					
Semester Hours Cumulative Hours Fall Semes Requirement Category Major: Biophysics Major: Internship	ter Course PHY 350 PHY 460	3 3 15 80 Year Credit Hrs 3 2	TJP: World Language Elective: Minor Elective: Minor Semester Hours Cumulative Hours Four Requirement Category Major: Intro to Nano Major: Elective	Language Ster Course PHY 440 EGR XXX	3 3 18 98 Credit Hrs 3 3					
Semester Hours Cumulative Hours Fall Semes Requirement Category Major: Biophysics Major: Internship Major: Senior Seminar	ter Course PHY 350 PHY 460 PHY 490	3 3 15 80 Year Credit Hrs 3 2 2 2	TJP: World Language Elective: Minor Elective: Minor Semester Hours Cumulative Hours Four Requirement Category Major: Intro to Nano Major: Elective Elective Elective	Language Ster Course PHY 440 EGR XXX	3 3 18 98 Credit Hrs 3 3 3 3					
Semester Hours Cumulative Hours Fall Semes Requirement Category Major: Biophysics Major: Internship Major: Senior Seminar Elective	ter Course PHY 350 PHY 460 PHY 490	3 3 15 80 Year Credit Hrs 3 2 2 2 3	TJP: World Language Elective: Minor Elective: Minor Semester Hours Cumulative Hours Four Requirement Category Major: Intro to Nano Major: Elective Elective Elective Elective	Language	3 3 3 18 98 Credit Hrs 3 3 3 3 2					
Semester Hours Cumulative Hours Fall Semes Requirement Category Major: Biophysics Major: Internship Major: Senior Seminar Elective Elective	ter Course PHY 350 PHY 460 PHY 490	3 3 15 80 Year Credit Hrs 3 2 2 2 3 3 3	TJP: World Language Elective: Minor Elective: Minor Semester Hours Cumulative Hours Four Requirement Category Major: Intro to Nano Major: Elective Elective Elective TJP: Social Science	Language Ster Course PHY 440 EGR XXX PSY/SOC	3 3 18 98 Credit Hrs 3 3 3 2 2 3					
Semester Hours Cumulative Hours Fall Semes Requirement Category Major: Biophysics Major: Internship Major: Senior Seminar Elective Elective TJP: Cultural/Global	ter Course PHY 350 PHY 460 PHY 490 HUM/GLS	3 3 15 80 Year Credit Hrs 3 2 2 2 3 3 3 3 3 3	TJP: World Language Elective: Minor Elective: Minor Semester Hours Cumulative Hours Four Requirement Category Major: Intro to Nano Major: Elective Elective Elective TJP: Social Science	Language Ster Course PHY 440 EGR XXX PSY/SOC	3 3 18 98 Credit Hrs 3 3 3 2 2 3					
Semester Hours Cumulative Hours Fall Semes Requirement Category Major: Biophysics Major: Internship Major: Senior Seminar Elective Elective TJP: Cultural/Global Semester Hours	ter Course PHY 350 PHY 460 PHY 490 HUM/GLS	3 3 15 80 Year Credit Hrs 3 2 2 2 3 3 3 3 3 3 16	TJP: World Language Elective: Minor Elective: Minor Semester Hours Cumulative Hours Four Requirement Category Major: Intro to Nano Major: Elective Elective Elective Semester Hours Semester Hours	Language Language ester Course PHY 440 EGR XXX PSY/SOC	3 3 3 98 98 Credit Hrs 3 3 3 3 2 3 3 3 2 3 3 1 4					

*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.