MARIAN UNIVERSITY — Indianapolis ——— ®

Student ID_____

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Date_____
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2020-21 DDEP Math/Electrical Engineering Checklist

GENERAL EDUCATION	MATHEMATICS MAJOR REQUIREMENTS		
	MAT 230 Calculus I	4	
I. Foundational Intellectual Skills (12-13 hours)	MAT 231 Calculus II	4	
EVS110 First Year Seminar	MAT 250 Logic and Sets	3	
ENG112 Writing and Community	MAT 305 Calculus III	4	
COM101 Public Speaking	MAT 310 Linear Algebra	3	
Mathematics (MAT220)	MAT 315 Differential Equations	3	
	MAT 322 Stat. Inference & Data Analysis I	3	
II. Knowledge Association (10.30 hours)	MAT 323 Stat. Inference & Data Analysis II	3	
II. Knowledge Acquisition (19-20 nours)	MAT 350 Numerical Methods	3	
Science with lab (CHE151)	MAT 425 Mathematical Modeling	3	
HUM210 Humanities Survey Course	IVIAT 450 Redi Analysis	3	
PHL130 Human Nature & Person	MAT 490 Mathematics Seminal	с С	
Foreign Language	CST 270 Object Oriented Programming	3	
		5	
One course from each group A and B:	COMPUTER ENGINEERING MAJOR REQUIREMENTS		
Group A	ENGR195 Intro to the Engineering Profession	1	
EGR327 Engineering Economics	ENGR196 Intro to Engineering	3	
ECN200 Introductory Economics	ECE201 Linear Circuit Analysis I	3	
Group B	ECE202 Linear Circuit Analysis II	3	
PSY101 General Psychology	ECE207 Electronic Measurement Techniques	1	
PSY220 General Psychology	ECE208 Electronic Device and Design	1	
GST200 Introduction to Gender Studies	ECE210 ECE Sophomore Seminar	1	
SOC101 Introduction to Sociology	ECE255 Introduction to Electronics Analysis	3	
SOC175 Introduction to Anthropology	ECE261 Engineering Programming Lab	1	
	ECE263 C Programming Class	3	
III Faith Ethics and Foundation (6 hours)	ECE270 Introduction to Digital System Design	4	
THI 105 Introduction to Theology	ECE301Signals and Systems	3	
	ECE302 Probabilistic Methods in ECE	3	
	ECE311 Electric and Magnetic Fields	3	
N/ Greater Douth Cluster	ECE362 Microprocessor Systems and Interfacing	4	
IV. Greater Depth Cluster	ECE382 Feedback System Analysis and Design	3	
Fuitilied by major requirements	ECE401 Engineering Ethics and Professionalism	1	
	ECE440 Transmission of mormation	4	
Required Supporting Courses	FCF488 Senior Design II	2	
TCM360 Communication in Engineering	ME 295 Mechanics and Heat	3	
Practice	EE Elective	3	
PHY201 Mechanics I	EE Elective	3	
PHY202 Heat, Electricity, and Optics	EE Elective	3	
	EE Elective	3	
Total Earned General Education Hours	EE Elective	3	
	Total Earned Major Hours		

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2020-21 Dual-Degree Engineering Major B.S. Mathematics with concentration in Applied Math & B.S. Electrical Engineering Sample Five-Year Plan

Year One								
Fall	Semester		Spring Semester					
Requirement Category	Course	Credit Hours	Requirement Category	Course	Credit Hours			
First Year Seminar	FYS 110	3	Major	MAT 231	4			
Major	MAT 230	4	Major	CST171	3			
Major	CHE151	4	Major	PHY201	4			
Major	ENGR196	3	General Education	ENG112	3			
Major	EGR195	1	General Education	THL105	3			
General Education	COM101	3						
Semester Hours	18		Semester Hours	17				
Cumulative Hours	18		Cumulative Hours	35				
		Year	⁻ Two					
Fall	Semester		Sprin	g Semester				
Requirement Category	Course	Credit	Requirement Category	Course	Credit			
		Hours			Hours			
Major	MAT 305	4	Major	MAT250	3			
Major	PHY202	4	Major	MAT315	3			
Major	MAT310	3	Major	ECE201	3			
Major	MAT211	1	Major	ECE207	1			
Major	CST270	3	Major	ECE261	1			
Major	ME200	3	Major	ECE263	3			
Semester Hours	18		Semester Hours	14	•			
Cumulative Hours	53		Cumulative Hours	67				
		Year	Three					
Fall	Semester		Spring Semester					
Requirement Category	Course	Credit	Requirement Category	Course	Credit			
		Hours			Hours			
Major	ECE202	3	Major	MAT323	3			
Major	ECE210	1	Major	ECE311	3			
Major	ECE270	4	Major	ECE301	3			
Major	ECE255	3	Major	MAT350	3			
Major	MAT322	3	General Education	Second THL	3			
Major	ECE208	1						
Semester Hours	15		Semester Hours	15				
Cumulative Hours	82		Cumulative Hours	97				
		Year	Four					
Fall Semester			Spring Semester					
Requirement Category	Course	Credit Hours	Requirement Category	Course	Credit Hours			
Major	ECE302	3	Major	ECE440	4			
Major	ECE362	4	General Education	ТСМ360	2			
Major	MAT425	3	Major	ECE401	1			
Major	ECE382	3	Major	EE Elective	3			
Major	MAT490	3	Major	EE Elective	3			
-		1	General Education	EGR327	3			
Semester Hours	16		Semester Hours	16	•			
	1			1				

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Year Five									
Fall Semester			Spring Semester						
Requirement Category	Course	Credit	Requirement Category	Course	Credit				
		Hours			Hours				
Major	EE Elec.	3	Major	MAT450	3				
General Education	Foreign Language	4	Major	EE Elec.	3				
Major	EE Elective	3	Major	ECE488	2				
General Education	HUM210	3	General Education	GST/PSY/SOC	3				
Major	ECE487	1	General Education	PHL130	3				
Semester Hours	14		Semester Hours	14					
Cumulative Hours	143		Cumulative Hours	157					

*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.

Courses listed in italics indicate courses taken at IUPUI.