2023-2024 B.S in MECHANICAL ENGINEERING



GRACE CORE (39 credits)

Students will integrate faith and learning across disciplines, demonstrate foundational knowledge and ways of knowing, cultivate characteristics of maturity in relationships with God, others, self, and the world, and apply knowledge to all aspects of life through intellectual and practical skills.

	1000-Level Courses				2000-Level Courses			
	First-Year Lea	rning Communities			HUM 2100	Creative Arts & Culture	3	
	FYE 1000	First-Year Foundations	3	@	HUM 2000	Global Perspectives	3	
	BIB 1050	Exploring the Bible	3		SCI 2030	Faith, Science, & Reason	3	
	PSY 1200	Essentials of Behavioral Science	3		HUM 2010-30	Cross-Cultural Field Experience	0	
	HIS 1050	Current Issues in Historical Context	3	@	BIB 2010	Scripture and Interpretation	3	
	First-Year Learning Competencies				<u>3000-Level Courses</u>			
	ENG 1100	Effective Writing	3		ECN 3000	Consumer Economics	3	
	COM 1100	Public Speaking	3		PHI 3010	Christianity and Critical Thinking	3	
			-	@	BIB 3300	Essential Doctrinal Themes	3	
		ADDITIONAL GENERAL EI	DUC/		ONB.S. DEG	REE (7 credits)		
	Satisfies B.S.	Satisfies B.S. Degree						
	MAT 1000+	MAT 3130 Linear Algebra	3					
@	CHM 1610	Chemistry I	4					
@	CHM 1620	Chemistry I Lab	0					
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		THE MAJOR (91 credits)						
		SCIENCE REQUIREMENTS (24 Cr)	_			IG FUNDAMENTALS (36 Cr)	_	
	MAT 1230	Calculus I	4		MEG 1200	Intro to Mechanical Engineering	4	
_	MAT 1240	Calculus I Lab	0		MEG 1400	Intro to Programming MATLAB	2	
@	MAT 1250	Calculus II	3	_	MEG 1900	Engineering Modeling & Tolerancing	3	
@	MAT 2250	Calculus III	3		MEG 1950	Industrial Machining & Measurements	3	
@	MAT 2280	Differential Equations	3	-	MEG 2800	Kinematic & linkage design	3	
@	PHY 2240	University Physics I	4	-	MEG 2900	Machine Component Design	3	
@	PHY 2250	University Physics I Lab	0	-	MEG 3100	Experimental Methods	3	
@	PHY 2260	University Physics II	4	-	MEG 3200	Control Systems	3	
@	PHY 2270	University Physics II Lab	0	-	MEG 3300	Advanced Manufacturing processes	2	
	MAT 3200	Probability and Statistics	3	@	MEG 3400	Intro to Finite Element Analysis	3	
				@	MEG 4100	Senior Engineering Project	3	
				@	MEG 4110	Senior Engineering Project	3	
	ENGINEER	NG SCIENCE REQUIREMENTS (25 Cr)			MEG 2000	Engineering Internship	1	
@	MEG 2110	Engineering Statics	3		MEG 1000	Engineering service	0	
@	MEG 2150	Strength of Materials	3					
@	MEG 2200	Dynamics	3		Technical El	ectives (6 Cr)		
@	MEG 2300	Engineering Materials	3			litional credits of MEG courses	6	
@	MEG 2400	Electrical Science (Circuits)	4		0.00000 0 0 0 0		Ū	
-	MEG 2500	Thermodynamics	3					
	MEG 2600	Heat Transfer	3					
@	MEG 2700	Fluid Mechanics	3					
e	11120 2700		•					
GF		EQUIREMENTS]					
То	receive a degr	ee, each student must satisfy checksheet						
	-	rn 137 credit hours, have earned a grade of C- or			IS A MINOR RE	QUIRED WITH THIS MAJOR? NO		
		-						
	•	ourses while maintaining a 2.2 GPA in major						
		A of 2.0 overall. It is the student's responsibility						
		ner advisor and monitor progress toward these				CHECKSHEET TOTAL CREDITS: 137		
go	ils. Some majo	rs and/or minors may have more stringent				AL CREDITS NEEDED TO GRADUATE: 137		

† Indicates a course taught by a partner college/university.

guidelines.

@ Indicates a course with prerequisites. Please review catalog for prerequisites.