

Academic Division: Engineering, Design & Architecture **Department:** Engineering **Effective:** August 2021

CURRICULAR SEQUENCE

First Year

First Semester				Second Semester			
Course	Credits	Approved	In Progress	Course	Credits	Approved	In Progress
ENGS 152*	3			ENGS 153	3		
MATH 152+*	4			SPGS 250	3		
SPGS 152*	3			MATH 221+	4		
HIGS 201	3			IMEN 205	3		
SCGS 200	3			CHEM 203+	4		
Total	16			Total	17		

Second Year

First Semester				Second Semester			
Course	Credits	Approved	In Progress	Course	Credits	Approved	In Progress
ENGI 122	3			IMEN 395	3		
MATH 222+	4			ENGI 233	3		
PHSC 215+	4			MATH 350	3		
INGS 201	3			ENGI 210	3		
IMEN 390	3			PHSC 216+	4		
Total	17			Total	16		

Third Year

First Semester				Second Semester			
Course	Credits	Approved	In Progress	Course	Credits	Approved	In Progress
IMEN 402	3			IMEN 341	3		
IMEN 405	3			IMEN 403	3		
ELEN 301	3			IMEN 406	3		
MATH 395	3			IMEN 407	3		
SOGS 201	3			IMEN 414	3		
				SOGS 202	3		
Total	15			Total	18		

Fourth Year

First Semester				Second Semester			
Course	Credits	Approved	In Progress	Course	Credits	Approved	In Progress
IMEN 408	3			IMEN 409	3		
HUGS 101	3			HUGS 102	3		
IMEN 411	3			Electiva IMEN	3		
IMEN 413	3			Electiva IMEN	3		
IMEN 421	3			ACCO 203	3		
IMEN 425	3						
Total	18			Total	15		

Notes:

- * Students will be enrolled according to their College Board results.
- + Laboratory course.
- The General Education component of all bachelor's degrees in engineering is different from other programs because of the Engineering Accreditation Commission ABET requirements. Engineering competencies in mathematics start at Calculus level, and competencies in science require an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics (ABET's Student Outcome 1). Also, they need to be able to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions (ABET's Student Outcome 6). These exceed compliance levels of the COMPETENT competency level for both quantitative and scientific reasoning.
- New students without previous university experience are required to take the Student Induction and Leadership Seminar (SIGS 100) and it will be offered the week before classes begin. Late registration students must complete this seminar during the academic semester.
- Developmental courses to develop academic skills for students entering with some deficiency: MATH 121 Intermediate Algebra (4 credits) and MATH 151 Pre-Calculus (4 credits).
- Subject to change.

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CURRICULUM

General Education Component - 37 credits

Course	Credits	Title	Requisites
ENGS 152*	3	Fundamentals of Speaking, Reading and Writing English I	
ENGS 153	3	Fundamentals of Speaking, Reading and Writing English II	ENGS 152*
SPGS 152*	3	Fundamentals of Reading and Writing	
SPGS 250	3	Writing Techniques	SPGS 152*
HUGS 101	3	World Culture I	
HUGS 102	3	World Culture II	HUGS 101
INGS 201	3	Introduction to Information, Research & Writing Skills	
HIGS 201	3	Puerto Rico History and Culture	
SOGS 201	3	Human Being and Social Consciousness	
SOGS 202	3	Questioning Politics & Economics	SOGS 201
MATH 152+*	4	Pre-Calculus II	Placement test or MATH 151+
SCGS 200	3	Science, Technology, and Society	

Core Component - 41 credits

Course	Credits	Title	Requisites
CHEM 203+	4	General Chemistry I	MATH 151+ or higher
MATH 221+	4	Calculus I	MATH 152+
MATH 222+	4	Calculus II	MATH 221+
MATH 350	3	Lineal Algebra	MATH 221+
MATH 395	3	Differential Equations	MATH 222+
ENGI 122	3	Introduction to Computer Programming	MATH 152+
ENGI 210	3	Engineering Economy	MATH 221+ Co-req.
PHSC 215+	4	Physics for Engineering I	MATH 221+
PHSC 216+	4	Physics for Engineering II	PHSC 215+
ELEN 301	3	Electrical Networks I	PHSC 215+
ENGI 233	3	Statics	PHSC 215+
IMEN 390	3	Probability for Engineers	MATH 221+

Major Component - 48 credits

Course	Credits	Title	Requisites
IMEN 205	3	Principles of Engineering Management	MATH 152+
IMEN 341	3	Accounting and Finance for Engineers	MATH 221+ Co-req.
ACCO 203	3	Cost Accounting	IMEN 341
IMEN 395	3	Inferential Statistics for Engineers	IMEN 390
IMEN 402	3	Work Measurement	IMEN 390
IMEN 403	3	Work System Design	IMEN 402
IMEN 405	3	Statistical Quality Control	IMEN 390
IMEN 406	3	Operations Research	MATH 350
IMEN 407	3	Production Planning and Control	ENGI 210
IMEN 408	3	Facilities Planning	IMEN 402, IMEN 406
IMEN 409	3	Design Project	Last semester status and permission from Department Director
IMEN 411	3	Systems Analysis and Design	ENGI 122, IMEN 402
IMEN 413	3	Probabilistic Models in Operations Research	MATH 395, MATH 350, IMEN 390
IMEN 414	3	Systems Simulation	ENGI 122, IMEN 395, IMEN 402

CONTENIDO CURRICULAR

Major Component - 48 credits

Course	Credits	Title	Requisites
IMEN 421	3	Engineering Project Management	ENGI 210, IMEN 390
IMEN 425	3	Enterprise Continuous Improvement	IMEN 402

IMEN Electives - 6 credits

Course	Credits	Title	Requisites
IMEN 404	3	Industrial Safety & Health Management	IMEN 402
IMEN 416	3	Design of Industrial Experiments	IMEN 395
IMEN 495	1	Special Topics	Department Director permission
IMEN 496	2	Special Topics	Department Director permission
IMEN 497	3	Special Topics	Department Director permission
IMEN 498	3	Undergraduate Research I	Department Director permission
IMEN 499	3	Undergraduate Research II	Department Director permission, IMEN 498
IMEN 510	3	Engineering Management	Last year status
IMEN 551 or TCOM 513	3	Advanced Engineering Project Management or Information Technology Project Management	Last year status
IMEN 610	3	Statistics for Decision Modeling	Last year status
IMEN 620	3	Advanced Enterprise Continuous Improvement	Last year status
IMEN 630	3	Supply Chain Management for Engineers	Last year status
IMEN 635	3	Logistics Methods and Strategies	Last year status
IMEN 640	3	Design and Operation of Logistics Networks	Last year status

PRELIMINARY ACADEMIC EVALUATION

SUBJECT TO CHANGE.

Credits' Total:

_____ Approved
_____ Remaining

Student's Signature: _____ Date: _____

Academic Counselor's Signature: _____

Date: _____