UNIVERSIDAD ANA G. MÉNDEZ UAGM

Grado Asociado en Tecnología Eléctrica y Energía Renovable
Associate Degree in Electrical Technology and Renewable Energy
62 credits

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
ETRE 160	3			ETRE 170	3		
ETRE 160L	1			ETRE 170L	1		
ETRE 165	3			ETRE 173	1		
INGS 201	3			ETRE 175	3		
SPGS 152*	3			ETRE 175L	1		
MAGS 120 (I)	3			SPGS 250	3		
				MATH 121	3		
Total	**16**			**Total**	**15**		

Second Year

First Semester				Second Semester			
Course	Credits	Approved	In Progress	Course	Credits	Approved	In Progress
ETRE 180	3			ETRE 180AL	1		
ETRE 180L	1			ETRE 265	3		
ETRE 260	3			ETRE 265L	1		
HUGS 101	3			ETRE 280	3		
SOGS 201	3			ENGS 153	3		
ENGS 152*	3			Elective course	4		
Total	**16**			**Total**	**15**		

Notes:

1. * All students will be enrolled according to the results of the placement test or the College Board.
2. +Laboratory course.
3. Engineering technology competencies in mathematics start at Intermediate Algebra level, and competencies in science require an ability to identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics. These exceed compliance levels of the COMPETENT competency level for both quantitative and scientific reasoning.
4. 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.
5. Subject to change.

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CURRICULUM

General Education Component - 24 credits

Course	Credits	Title	Requisites
MAGS 120 (I)	3	Introductory Algebra	
INGS 201	3	Introduction to Information, Research & Writing Skills	
ENGS 152*	3	Fundamentals of Speaking, Reading and Writing I	
SPGS 152*	3	Fundamentals of Reading and Writing	
SOGS 201	3	The Individual: Dimension and Social Conscience	
HUGS 101	3	World Culture I	
ENGS 153	3	Fundamentals of Speaking, Reading and Writing II	ENGS 152
SPGS 250	3	Writing Techniques	SPGS 152

Core Component - 6 credits

Course	Credits	Title	Requisites
MATH 121	3	Intermedia Algebra	MAGS 120 or placement test
ETRE 165	3	Fundamentals of Renewable Energy	

Major Component - 28 credits

Course	Credits	Title	Requisites
ETRE 160	3	Principles of Electrical Circuits and Power	Co-req. MAGS 120
ETRE 160L	1	Laboratory of Principles of Electrical Circuits and Power	Co-req. ETRE 160
ETRE 170	3	Introduction to Electrical Installations and NEC	ETRE 160, ETRE 160L
ETRE 170L	1	Laboratory of Introduction to Electrical Installations and NEC	Co-req. ETRE 170
ETRE 173	1	Review for License Examination of Electrician Assistant	Co-req ETRE 170, ETRE 170L, ETRE 175, ETRE 175L
ETRE 175	3	Electrical Machinery	ETRE 160, ETRE 160L
ETRE 175L	1	Laboratory of Electrical Machinery	Co-req. ETRE 175
ETRE 180	3	Fundamentals of Photovoltaic and Wind Power System	ETRE 160, ETRE 165
ETRE 180L	1	Laboratory of Fundamentals of Photovoltaic and Wind Power System	Co-req. ETRE 180
ETRE 180 AL	1	Laboratory of Photovoltaic and Wind Power System Installations	ETRE 180, ETRE 180L
ETRE 260	3	Electrical Installations	ETRE 170, ETRE 170L
ETRE 265	3	Principles of Electrical Controls and PLC	ETRE 175, ETRE 175L
ETRE 265L	1	Laboratory of Principles of Electrical Controls and PLC	Co-req. ETRE 265
ETRE 280	3	Review for License Examination of Electrician	All courses ETRE Approved ETRE 260, ETRE 265, ETRE 265L, ETRE 180A en Co-req. or Approved

Elective Course - 4 credits

Course	Credits	Title	Requisites
MATH 151+	4	Pre-Calculus I	MATH 121
ETRE 270	4	Sistemas de Transmisión y Distribución	ETRE 260

PRELIMINARY ACADEMIC EVALUATION
SUBJECT TO CHANGE

Credits' Total:
_____ Approved
_____ Remaining

Student's Signature: _____ Date: _____

Academic Counselor's Signature: _____
Date: