UNIVERSIDAD ANA G. MÉNDEZ
UAGM

Bachillerato en Ciencias de Tecnología en Ingeniería Electrónica con concentración en Aviónica

Bachelor in Science in Electronic Engineering Technology major in Avionics

127 créditos

Academic Division: Engineering, Design & Architecture **Department:** Engineering **Effective:** January 2026

CONTENIDO CURRICULAR

Componente de Educación General - 36 créditos

Cursos	Créditos	Título	Prerrequisito
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
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 121+	3	Intermediate Algebra	Placement test or MAGS 120
SCGS 200	3	Science, Technology, and Society	
INGS 202	3	Introduction to Research and Information Literacy	SPGS 250

Componente Medular – 45 créditos

Cursos	Créditos	Título	Prerrequisito
ENGI 200	3	Technology, Engineering, and Industrial Development	
ENGI 164-	3	Computer Aided Engineering Design	Pre req. ENGI 200 Co req. MATH 151
ENGI 201-	3	Wiring, Connectors, and Harness	ENGI 200
ENGI 250	3	Engineering Economics & Management	MATH 151
ENGI 122- or	3	Introduction to Computer Programming	MATH 152
ENGI 123-		Procedural and Object-Oriented Programming	Co req. MATH 152
ENGI 224-	3	Object-Oriented and Web-Based Programming	ENGI 122
MATH 151+	4	Pre-Calculus I	MATH 121
MATH 152+	4	Pre-Calculus II	MATH 151
MATH 221+	4	Calculus I	MATH 152
MATH 222+	4	Calculus II	MATH 221
ENGI 398	3	Engineering Mathematics,	MATH 222
PHSC 215+	4	Physics for Engineers I	MATH 221
PHSC 216+	4	Physics for Engineers II	PHSC 215

Componente de Concentración - 46 créditos

Cursos	Créditos	Título	Prerrequisito
EETP 302-	3	Circuits I	MATH 151
EETP 303-	4	Circuits II	EETP 302
EETP 316-	3	Electronics I	EETP 303
EETP 417-	4	Electronics II	EETP 316
EETP 410-	3	Microprocessors	AETP 302, ENGI 122
EETP 405-	4	Advanced Communication Systems	ENGI 398
EETP 450-	3	Sensors and Actuators	EETP 410
EETP 420-	3	Embedded Systems with FPGA's	EETP 450
AETP 302-	3	Digital Electronics	EETP 302
AETP 404-	3	Advanced Aircraft Navigation	EETP 410
AETP 410-	3	Pulse and Radars Systems	MATH 151
AETP 450-	3	Robotics and Drones	Co Req EETP 420
AETP 470-	1	License Review	EETP 417
NETP 400-	3	Computer Networks and Internet of Things	Co Req. EETP 302

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Cursos	Créditos	Título	Prerrequisito
ENGI 400	3	Capstone	EETP 410

EVALUACIÓN ACADÉMICA PRELIMINAR DISCUTIDA CON EL ESTUDIANTE.
LA MISMA PUEDE ESTAR SUJETO A CAMBIOS.

Total de créditos:
_____ Aprobados
_____ Por aprobar

Firma del estudiante: _____ Fecha: _____

Firma del Consejero Académico: _____
Fecha: _____

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SECUENCIAL CURRICULAR

Primer Año

Primer Semestre				Segundo Semestre			
Curso	Créditos	Aprobado	En curso	Curso	Créditos	Aprobado	En curso
SPGS 152*	3			SPGS 250	3		
ENGS 152*	3			ENGS 153	3		
MATH 121+	3			MATH 151+	4		
ENGI 200	3			ENGI 164-	3		
HUGS 101	3			HUGS 102	3		
Total	**15**			**Total**	**16**		

Segundo Año

Primer Semestre				Segundo Semestre			
Curso	Créditos	Aprobado	En curso	Curso	Créditos	Aprobado	En curso
MATH 152+	4			MATH 221+	4		
EETP 302-	3			EETP 303-	4		
ENGI 201-	3			SOGS 201	3		
INGS 202	3			PHSC 216+	4		
PHSC 215+	4						
Total	**17**			**Total**	**15**		

Tercer Año

Primer Semestre				Segundo Semestre			
Curso	Créditos	Aprobado	En curso	Curso	Créditos	Aprobado	En curso
ENGI 122-	3			ENGI 224-	3		
EETP 316-	3			EETP 417-	4		
AETP 302-	3			EETP 410-	3		
MATH 222+	4			ENGI 398	3		
SOGS 202	3			NETP 400-	3		
Total	**16**			**Total**	**16**		

Cuarto Año

Primer Semestre				Segundo Semestre			
Curso	Créditos	Aprobado	En curso	Curso	Créditos	Aprobado	En curso
SCGS 200	3			ENGI 250	3		
AETP 404-	3			ENGI 400	3		
EETP 450-	3			AETP 410-	3		
EETP 405-	4			EETP 420-	3		
HIGS 201	3			AETP 450-	3		
				AETP 470	1		
Total	16			Total	16		

Important Notes:

1. * All students will be enrolled according to the results of the placement test or the College Board.
2. + Course with laboratory
3. - Classroom-lab course
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. The minimum passing grade for core and major courses component is C.
6. Subject to change.