



Maestría en Ciencias en Ingeniería Mecánica con especialidad en Energía Alternativa (Plan 1 & Plan 2) o Maestría en Ingeniería Mecánica con especialidad en Energía Alternativa (Plan 3)

Master of Sciences in Mechanical Engineering with specialization in Energy Alternative (1st & 2nd Plan) or Master of Mechanical Engineering with specialization in Alternative Energy (3rd Plan)

30 créditos

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

SECUENCIAL CURRICULAR

PLAN 1

Primer Año

Primer Semestre				Segundo Semestre			
Curso	Créditos	Aprobado	En curso	Curso	Créditos	Aprobado	En curso
MEEN 601	3			MEEN 604	3		
Specialization Elective	3			Specialization Elective	3		
Specialization Elective	3			Specialization Elective	3		
Total	9			Total	9		

Segundo Año

Primer Semestre				Segundo Semestre			
Curso	Créditos	Aprobado	En curso	Curso	Créditos	Aprobado	En curso
MEEN 697	3			MEEN 697	3		
MEEN 641	3						
General Elective	3						
Total	9			Total	3		

Notas importantes:

1. The actual order of the courses may vary depending on the course offerings. In addition, the student may elect to vary the number of credits during any particular semester. This table is only a guide. The Mechanical Engineering program director will be available for any consultations.
2. Students will choose a plan to complete the degree. Plan 1 (MS) Is an excellent option for full-time students with a strong interest in research; Plan 2 (MS) Is ideal to conduct design and development in an area of particular interest; Plan 3 (Meng) caters primarily to working professionals who seek highly specialized knowledge.
3. General Electives may also be selected from the list of Specialization Electives.
4. Subject to change.



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CONTENIDO CURRICULAR

PLAN 1

Componente Medular - 15 créditos

Cursos	Créditos	Título	Prerrequisito
MEEN 601	3	Advanced Mathematics for Engineers	
MEEN 604	3	Aerodynamics I: Incompressible Flow	
MEEN 641	3	Sustainable Energy	
MEEN 697	6	MS Thesis (Two semesters, 3 cr. each semester)	Chair's permission

**Componente de Especialidad- 12 créditos
(Electivas de Especialización)**

Cursos	Créditos	Título	Prerrequisito
MEEN 501	3	Finite Elements Analysis	
MEEN 611	3	Composite Materials	
MEEN 642	3	Grid Integration & Sustainable Systems	
MEEN 643	3	Energy Management	
MEEN 644	3	Photovoltaic Energy Conversion	
MEEN 645	3	Wind Energy	
MEEN 646	3	Solar Refrigeration and Air Conditioning	
MEEN 648	3	Advanced Topics in Alternative Energy	Chair's permission
MEEN 649	3	Independent Study in Alternative Energy	Chair's permission
MEEN 651	3	Ocean Energy	
MEEN 652	3	Biofuels	
MEEN 672	3	Mechanical Vibrations	
MEEN 673	3	Computational Fluid Dynamics (CFD)	
MEEN 675	3	MEMS and Energy Harvesting	
MEEN 676	3	Design Optimization	
MEEN 678	3	Advanced Topics	Chair's permission
MEEN 679	3	Independent Study	Chair's permission
MEEN 682	3	Systems Engineering	
MEEN 685	3	Applied Modern Control	

**Electivas Generales - 3 créditos
(También puede seleccionar de la lista de Electivas de Especialización)**

Cursos	Créditos	Título	Prerrequisito
IMEN 510	3	Engineering Management	
IMEN 551 or TCOM 513	3	Advanced Engineering Project Management or IT Project Management	
IMEN 610	3	Statistics for Decision Modeling	
IMEN 620	3	Advanced Enterprise Continuous Improvement	
IMEN 630	3	Supply Chain Management for Engineers	
IMEN 635	3	Logistics Methods and Strategies	
ACCO 501	3	Managerial Accounting	
INBU 610	3	The International Business Environment	
MANA 501	3	Organizational Behavior	
MSPA 520	3	Administrative Law and Ethics	



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

Total de créditos:

_____ Aprobados

_____ Por aprobar

Firma del estudiante: _____ Fecha: _____

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Fecha: _____



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**SECUENCIAL CURRICULAR
PLAN 2**

Primer Año

Primer Semestre				Segundo Semestre			
Curso	Créditos	Aprobado	En curso	Curso	Créditos	Aprobado	En curso
MEEN 601	3			MEEN 604	3		
Specialization Elective	3			Specialization Elective	3		
General Elective	3			General Elective	3		
Total	9			Total	9		

Segundo Año

Primer Semestre				Segundo Semestre			
Curso	Créditos	Aprobado	En curso	Curso	Créditos	Aprobado	En curso
MEEN 694	3			Specialization Elective	3		
MEEN 641	3						
Specialization Elective	3						
Total	9			Total	3		

Notas importantes:

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3. General Electives may also be selected from the list of Specialization Electives.
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**CONTENIDO CURRICULAR
PLAN 2**

Componente Medular - 12 créditos

Cursos	Créditos	Título	Prerrequisito
MEEN 601	3	Advanced Mathematics for Engineers	
MEEN 604	3	Aerodynamics I: Incompressible Flow	
MEEN 641	3	Sustainable Energy	
MEEN 694	3	Special Project	Chair's permission

**Componente de Especialidad- 12 créditos
(Electivas de Especialización)**

Cursos	Créditos	Título	Prerrequisito
MEEN 501	3	Finite Elements Analysis	
MEEN 611	3	Composite Materials	
MEEN 642	3	Grid Integration & Sustainable Systems	
MEEN 643	3	Energy Management	
MEEN 644	3	Photovoltaic Energy Conversion	
MEEN 645	3	Wind Energy	
MEEN 646	3	Solar Refrigeration and Air Conditioning	
MEEN 648	3	Advanced Topics in Alternative Energy	Chair's permission
MEEN 649	3	Independent Study in Alternative Energy	Chair's permission
MEEN 651	3	Ocean Energy	
MEEN 652	3	Biofuels	
MEEN 672	3	Mechanical Vibrations	
MEEN 673	3	Computational Fluid Dynamics (CFD)	
MEEN 675	3	MEMS and Energy Harvesting	
MEEN 676	3	Design Optimization	
MEEN 678	3	Advanced Topics	Chair's permission
MEEN 679	3	Independent Study	Chair's permission
MEEN 682	3	Systems Engineering	
MEEN 685	3	Applied Modern Control	

**Electivas Generales - 6 créditos
(También puede seleccionar de la lista de Electivas de Especialización)**

Cursos	Créditos	Título	Prerrequisito
IMEN 510	3	Engineering Management	
IMEN 551 or TCOM 513	3	Engineering Project Management or IT Project Management	
IMEN 610	3	Statistics for Decision Modeling	
IMEN 620	3	Enterprise Continuous Improvement	
IMEN 630	3	Supply Chain Management for Engineers	
IMEN 635	3	Logistics Methods and Strategies	
ACCO 501	3	Managerial Accounting	
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**SECUENCIAL CURRICULAR
PLAN 3**

Primer Año

Primer Semestre				Segundo Semestre			
Curso	Créditos	Aprobado	En curso	Curso	Créditos	Aprobado	En curso
MEEN 601	3			MEEN 604	3		
Specialization Elective	3			Specialization Elective	3		
General Elective	3			General Elective	3		
Total	9			Total	9		

Segundo Año

Primer Semestre				Segundo Semestre			
Curso	Créditos	Aprobado	En curso	Curso	Créditos	Aprobado	En curso
MEEN 641	3			Specialization Elective	3		
Specialization Elective	3						
General Elective	3						
Total	9			Total	3		

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**CONTENIDO CURRICULAR
PLAN 3**

Componente Modular - 9 créditos

Cursos	Créditos	Título	Prerrequisito
MEEN 601	3	Advanced Mathematics for Engineers	
MEEN 604	3	Aerodynamics I: Incompressible Flow	
MEEN 641	3	Sustainable Energy	

**Componente de Especialidad- 12 créditos
(Electivas de Especialización)**

Cursos	Créditos	Título	Prerrequisito
MEEN 501	3	Finite Elements Analysis	
MEEN 611	3	Composite Materials	
MEEN 642	3	Grid Integration & Sustainable Systems	
MEEN 643	3	Energy Management	
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MEEN 648	3	Advanced Topics in Alternative Energy	Chair's permission
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MEEN 651	3	Ocean Energy	
MEEN 652	3	Biofuels	
MEEN 672	3	Mechanical Vibrations	
MEEN 673	3	Computational Fluid Dynamics (CFD)	
MEEN 675	3	MEMS and Energy Harvesting	
MEEN 676	3	Design Optimization	
MEEN 678	3	Advanced Topics	Chair's permission
MEEN 679	3	Independent Study	Chair's permission
MEEN 682	3	Systems Engineering	
MEEN 685	3	Applied Modern Control	

**Electivas Generales - 9 créditos
(También puede seleccionar de la lista de Electivas de Especialización)**

Cursos	Créditos	Título	Prerrequisito
IMEN 510	3	Engineering Management	
IMEN 551 or TCOM 513	3	Engineering Project Management or IT Project Management	
IMEN 610	3	Statistics for Decision Modeling	
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