MAE MAJOR CURRICULA
2016-2017

Updated Aug 2016

Deviation from these academic plans could delay your graduation. It's your responsibility to be aware of course prerequisites and quarterly course offerings.

AEROSPACE ENGINEERING

FALL	WINTER	SPRING
Year 1		
Math 20A*	Math 20B*	Math 20C*
MAE 2-Intro to Aerospace	Phys 2A*	Phys 2B*
Chem 6A	GE	Pending MAE materials course (or SE 2/L)
GE (College requirements)	GE	GE
Year 2		
Math 20D	Math 18 (formerly 20F)*	Math 20E
Phys 2C & 2CL	MAE 8- MATLAB	MAE 131A- Solid Mechanics
MAE 3- Graphics and Design	MAE 130A*- Statics	MAE 130B- Dynamics
GE	GE	GE
Year 3		
MAE 105*- Mathematical Physics	MAE 101A*- Intro to Fluids	MAE 101B*- Advance Fluids
MAE 107- Computational Methods	MAE 130C*- Vibrations	MAE 143B*- Linear Control
MAE 110A- Thermodynamics	MAE 143A*- Signals and Systems	MAE 170- Experimental Techniques
MAE 140- Linear Circuits	SE 160A*- Aerospace Structural Mechanics I	SE 160B*- Aerospace Structural Mechanics II
Year 4		
MAE 104*- Aerodynamics	MAE 113*- Propulsion	MAE 155B*- Aerospace Design II
MAE 101C*- Heat Transfer	MAE 142*- Dynamics and Control of Aero. Vehicles	GE
MAE 150*- Computer-Aided Design	MAE 155A*- Aerospace Design I	GE
GE	MAE 175A*- Aerospace Engineering Lab	TE (Technical Elective)

MECHANICAL ENGINEERING

FALL	WINTER	SPRING
Year 1		
Math 20A*	Math 20B*	Math 20C*
Chem 6A*	Phys 2A*	Phys 2B*
GE (College requirements)	Chem 6B	MAE 3- Graphics and Design
GE	GE	GE
Year 2		
Math 20D	Math 18 (formerly 20F)*	Math 20E
Phys 2C & 2CL	MAE 8- MATLAB	MAE 131A- Solid Mechanics
MAE 20- Materials Science	MAE 130A*- Statics	MAE 130B- Dynamics
GE	GE	MAE 108- Statistics
Year 3		
MAE 105*- Mathematical Physics	MAE 101A*- Intro to Fluids	MAE 101B*- Advance Fluids
MAE 107- Computational Methods	MAE 130C- Vibrations	MAE 143B*- Linear Control
MAE 110A- Thermodynamics	MAE 143A*- Signals and Systems	MAE 170- Experimental Techniques
MAE 140- Linear Circuits	MAE 160* (Mech. Behavior of Materials) **or** MAE 131B* (Solid Mechanics II)	GE
Year 4		
MAE 101C*- Heat Transfer	MAE 156A*- Mechanical Design I	MAE 156B*- Mechanical Design II
MAE 150*- Computer-Aided Design	MAE 171A*- Mechanical Engineering Lab	TE
TE (Technical Elective)	TE	TE
GE	GE	GE

*Last quarter to take this course to graduate on time

Please contact us if you have any questions.

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ENVIRONMENTAL ENGINEERING		
FALL	**WINTER**	**SPRING**
Year 1		
Math 20A*	Math 20B*	Math 20C*
Chem 6A*	Phys 2A*	Phys 2B*
GE (College requirements)	Chem 6B*	Chem 6C
GE	GE	Chem 7L
Year 2		
Math 20D	Math 18 (formerly 20F)*	Math 20E
ESYS 101- Environmental Bio	MAE 130A- Statics	MAE 108- Statistics
Phys 2C & 2CL	MAE 8- MATLAB	MAE 124- Environmental Challenges
MAE 3-Graphics and Design	GE	GE
Year 3		
CENG 100- Material and Energy Balances	MAE 101A*- Intro to Fluids	MAE 101B*- Advance Fluids
MAE 105- Mathematical Physics	MAE 119- Renewable Energy: Solar and Wind	MAE 170- Experimental Techniques
MAE 107- Computational Methods	MAE 110A*- Thermodynamics	TE (Technical Elective)
CHEM 171- Env. Chem I	GE	GE
Year 4		
MAE 101C*- Heat Transfer	MAE 126A*- Environmental Eng. Lab	MAE 126B*- Env. Eng. Design
MAE 122*- Flow and Transport	MAE 123*- Fluid-Solid Interaction	TE
TE	TE	TE
GE	GE	GE

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