

MAE MAJOR CURRICULUMS

2013-2014

COURSES MARKED WITH AN ASTERISK ARE PREREQUISITES TO COURSES IN THE IMMEDIATELY SUCCEEDING OR CONCURRENT QUARTER.

AEROSPACE ENGINEERING		
FALL	WINTER	SPRING
Year 1		
Math 20A*	Math 20B*	Math 20C*
MAE 2-Intro to Aerospace	Phys 2A*	Phys 2B* and 2BL
Chem 6A	HSS	Structural Engineering (SE) 2
HSS (College Requirements)	HSS	HSS
Year 2		
Math 20D	Math 20F*	Math 20E
Phys 2C and 2CL	MAE 8- Intro. To MatLab	MAE 131A- Solid Mechanics
MAE 3- Graphics and Design	MAE 130A*- Statics	MAE 130B- Dynamics
HSS	HSS	HSS
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 Technique
MAE 140- Linear Circuits	SE 160A*	SE 160B
Year 4		
MAE 104*- Aerodynamics	MAE 113*- Propulsion	MAE 155B- Aeronautics Design
MAE 101C*- Heat Transfer	MAE 142*- Dynamics and Controls	HSS
MAE 150*- Computer-Aid Design	MAE 155A*- Aerospace Design	HSS
HSS	MAE 175A- Engineering Lab	TE

MECHANICAL ENGINEERING		
FALL	WINTER	SPRING
Year 1		
Math 20A*	Math 20B*	Math 20C*
Chem. 6A*	Chem 6B	MAE 3- Graphics and Design
HSS	Phys 2A*	Phys 2B* and 2BL
HSS	HSS	HSS
Year 2		
Math 20D	Math 20F*	Math 20E
MAE 20- Materials Science	MAE 8- Intro. To MatLab	MAE 108 - Statistics
Phys. 2C and 2CL	MAE 130A*- Statics	MAE 130B- Dynamics
HSS	HSS	MAE 131A- Solid Mechanics
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 Technique
MAE 140- Linear Circuits	MAE 160 or MAE 131B	HSS
Year 4		
MAE 101C*- Heat Transfer	MAE 156A*- Design Lab I	MAE 156B- Design Lab II
MAE 150*- Computer-Aid Design	MAE 171A*- Engineering Lab I	TE
TE	TE	TE
HSS	HSS	HSS

If you have any questions please contact us.

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ENGINEERING SCIENCE		
FALL	WINTER	SPRING
Year 1		
Math 20A*	Math 20B*	Math 20C*
Chem. 6A*	Chem 6B	MAE 3- Graphics and Design
HSS	Phys 2A*	Phys 2B* and 2BL
HSS	HSS	HSS
Year 2		
Math 20D	Math 20F*	Math 20E
MAE 20- Materials Science	MAE 8- Intro. To MatLab	MAE 108 - Statistics
Phys. 2C and 2CL	MAE 130A*- Statics	MAE 130B- Dynamics
HSS	HSS	MAE 131A- Solid Mechanics
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 Technique
MAE 140- Linear Circuits	MAE 160 or MAE 131B	HSS
Year 4		
MAE 101C*- Heat Transfer	MAE 171A*- Engineering Lab	TE
MAE 150*- Computer-Aid Design	TE	HSS
TE	TE	HSS
HSS	HSS	HSS

ENVIRONMENTAL ENGINEERING		
FALL	WINTER	SPRING
Year 1		
Math 20A	Math 20B	Math 20C
Chem 6A	Phys 2A	Phys 2B and 2BL
HSS	Chem 6B	Chem 6C/6BL
HSS	HSS	HSS
Year 2		
Math 20D	Math 20F	Math 20E
ESYS 101- Environmental Bio	ESYS 102- Solid/ Fluids	Chem 140A
Phys 2C/2CL	MAE 8- Intro. To MatLab	MAE 108 - Statistics
MAE 3-Graphics and Design	HSS	MAE 124- Environmental Engineering Policy
Year 3		
CENG 100- Modeling and Computations	MAE 101A*- Intro to Fluids	MAE 101B*- Advance Fluids
MAE 105*- Mathematical Physics	MAE 119- Renewable Energy: Solar and Wind	MAE 170- Experimental Technique
MAE 107- Computational Methods	HSS	TE
MAE 110A- Thermodynamics	HSS	HSS
Year 4		
MAE 101C*- Heat Transfer	MAE 126A- Engineering Lab	MAE 126B- Engineering Lab
MAE 122- Flow and Transport	MAE 123- Fluid-Solid Interaction	TE
TE	TE	TE
HSS	HSS	HSS

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