

MMAE Double Degree Requirement - Total Credit Hours 150

A student who satisfies the Mechanical Engineering degree requirement of 128 credit hours will need an additional 22 credit hours from the following courses in the Aerospace Engineering Program.

	Prefix & Number	Cr. Hr.	Course Name	Offered
Aerospace	EAS 4505 <i>or</i> EAS 3530 (choose 1)	3	Orbital Mechanics	SP
			Space System Concepts	SP
	EAS 4105	3	Flight Mechanics	FA
	EAS 4200	3	Flight Structures	FA
	EAS 4300	3	Propulsion	SP
	EAS 4134	3	High Speed Aero	FA
	EAS 3810C	3	AE Engineering Measurements	SP
	EAS 3010	3	Fundamentals of AE Flight	FA
	Elective	1	http://mmae.ucf.edu/Academics/Undergraduate/Approved%20Electives.pdf	

The following courses are not allowed because there are similar courses in the ME Program

EAS 3101	Fund of Aerodynamics
EAS 3800C	Aerospace Measurement I
EAS 4700C	Aerospace Design I
EAS 4710C	Aerospace Design II
EAS 4210	Space Structural Dynamics

A student who satisfies the Aerospace Engineering degree requirement of 128 credit hours will need an additional 22 credit hours from the following courses in Mechanical Engineering. Students have the option of Materials, Energy or Mechanical Systems.

	Prefix & Number	Cr. Hr.	Course Name	Offered
Materials Option	EML 4142	3	Heat Transfer	FA & SP
	EML 4535C	3	CAD/CAM	FA & SP
	EMA 3124	3	Design & Selection of Materials	FA
	EMA 4102	3	Thermo & Kinetics of Materials	FA
	EMA 4223	3	Fund of Mech. Behavior of Metals	SP
	EMA 3012C	3	Experimental Techniques	FA & SP
	EML 3500	3	Machine Design	FA & SP
	Elective	1	http://mmae.ucf.edu/Academics/Undergraduate/Approved%20Electives.pdf	

	Prefix & Number	Cr. Hr.	Course Name	Offered
Energy Systems Option	EML 4142	3	Heat Transfer	FA & SP
	EML 4535C	3	CAD/CAM	FA & SP
	EML 4304C	2	Energy Systems Lab	SP
	EML 4703	3	Fluids II	FA
	EML 3101	3	Thermodynamics II	FA
	EML 3500	3	Machine Design	FA & SP
	EML 4221C	2	Mechanical Sys Experimental Tech	FA & SP
	EML 4145	2	Topics in Heat Transfer	SP
	Elective	1	http://mmae.ucf.edu/Academics/Undergraduate/Approved%20Electives.pdf	

	Prefix & Number	Cr. Hr.	Course Name	Offered
Mechanical Systems Option	EML 4142	3	Heat Transfer	FA & SP
	EML 4535C	3	CAD/CAM	FA & SP
	EML 4304C	2	Energy Systems Lab	SP
	EML 3626	3	Kinematics	FA
	EML 3500	3	Machine Design	FA & SP
	EML 4221C	2	Mechanical Sys Experimental Tech	FA & SP
	EGM 3601L	2	Solid Mechanics Lab	FA & SP
	Elective	4	http://mmae.ucf.edu/Academics/Undergraduate/Approved%20Electives.pdf	

The following courses are not allowed because there are similar courses in the AE Program

EML 3701	Fluids Mechanics I
EML 3303C	Mechanical Measurement I
EML 4501C	Mechanical Design I
EML 4502	Mechanical Design II
EML 4220	Vibration Analysis

Students pursuing a double degree should speak with Ms. Waheeda Illasarie since requirements are different for each catalog year.
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