

AEROSPACE ENGINEERING CURRICULUM FOR CLASS OF 2019 (132 CR)

Freshman Year

160:159	Gen.Chem. for Engrs	3	160:160	Gen. Chem for Engrs.	3
160:171	Intro. Experimentation	1	440:127	Intro.Computers for Engrs	3
355:101	Expository Writing	3	640:152	Calculus for Eng'g	4
440:100	Intro. to Engineering	1	440:221*	Eng'g Mech (Statics)	3
640:151	Calculus for Eng'g	4	750:124	Analytical Physics Ib	2
750:123	Analytical Physics Ia	2	_____	Hum/Soc Elective	3
_____	Hum/Soc Elective	3			

Sophomore Year

640:251	Multivariable Calculus	4	332:373	Elem. of Elect. Eng'g	3
650:210*	Intro to Aerospace Eng.	3	332:375	Elem. Elect. Eng'g Lab	1
440:222*	Eng'g Mech (Dynamics)	3	650:388*	CAD in MAE	3
750:227	Analyt. Physics IIa	3	640:244	Differential Equations	4
750:229	Analyt. Physics IIa Lab	1	650:291*	Mechanics of Materials	3
_____	Hum/Soc Elective (300+)	3	220:102	MicroEconomics	3

Junior Year

650:342*	Design Mech Components	3	650:471	Aircraft Flight Dynamics	3
640:421*	Advanced Calculus	3	650:458	Aerospace Structures	3
650:312	Fluid Mechanics	3	650:460	Aerodynamics	3
650:350*	ME Measurements	4	650:401*	Syst Dynamics & Controls	3
650:351*	Thermodynamics	3	650:449	Aerospace Materials	3

Senior Year

650:431	ME/AE Lab I	2	650:433	Aerospace Lab II	2
650:487	Aerospace Design Proj I	2	650:488	Aerospace Design Proj II	2
650:439	Multiphysics Simulations	3	650:4XX	Departmental Elective	3
650:457	Spacecraft Mission Des	3	650:463	Compr Fluid Dynamics	3
___-___	Technical Elective	3	650:459	Aerospace Propulsion	3
___-___	Hum/Soc Elective (300+)	3	___-___	Technical Elective	3

- ***The MAE courses marked with (*) above can be taken either fall or spring semester***
- ***All MAE Departmental Electives can count for Technical Electives***
- ***Selection of three (+) courses, two as TEs and one as DE, leads to Energy Certificate***

Departmental Electives

650:443	Vibrations	650:474+	Alt Energy I
650:447	Probabilistic Models	650:477+	Alt Energy II
650:451	Vehicle Dynamics	650:478	ME Aspects Elec Packg
650:455	Des Mechanisms	650:481	Heat Transfer
650:461+	Int Comp Engines		
650:462+	Power Plants		
650:465	Orbital Mechanics		