Course number	Course name	Area	Instructor	Course Pre-Regs/Restrictions
20000	Undergraduate Sophomore Seminar		Marais	
20300	Aeromechanics I		4 sections	
20400	Aeromechanics II		Agyei	
20401	Aeromechanics II Laboratory		Zhang	
25100	Introduction to Aerospace Design		3 sections	
30000	Undergraduate Junior Seminar		Marais	
30100	Signal Analysis for Aerospace Engineering		2 sections	
33300	Fluid Mechanics		3 sections	
33301	Fluid Mechanics Laboratory		Bane	
33400	Aerodynamics		2 sections	
33401	Aerodynamics Laboratory		Bane	
33800	Thermal Sciences		Wang	
33900	Aerospace Propulsion		Canino	
34000	Dynamics and Vibrations		2 sections	
35103	Aeropsace Systems Design	Design	Leifsson	
35200	Structural Analysis I		4 sections	
35201	Structural Analysis I Laboratory		Zhang	
36400	Control Systems Analysis		2 sections	
36401	Control Systems Laboratory		Frazho	
40000	Undergraduate Senior Seminar		Crossley	
41200	Introduction to Computational Fluid Dynamics	Aerodynamics or Propulsion	Blaisdell	
41800	Zero-Gravity Flight Experiment	Design or Aerodynamics	2 sections	
42100	Flight Dynamics and Control		2 sections	
43900	Rocket Propulsion	Propulsion	Pourpoint	
44000	Spacecraft Attitude Dynamics		2 sections	
45000	Spacecraft Design		Garrison	
45100A	Aircraft Design		Leifsson	
49000 TRST	TracSat DBT	Aerodynamics or Propulsion or A & C	Shashurin	
51100	Introduction to Fluid Mechanics	Aerodynamics	Poggie	
53200	Orbit Mechanics	ASA	Howell	
53300	Space Traffic Management	ASA	Frueh	
53400	Spacecraft Electric Propulsion	Propulsion and Aerodynamics	Shashurin	
53800	Air Breathing Propulsion	Propulsion	Slabaugh	
54800	Mechanical Behavior of Materials	Structures	Sangid	
55000	Multidisciplinary Deisgn Optimization	Design or Structures	Crossley	
55300	Elasticity in Aerospace Engineering	Structures	Yu	
55800	Finite Element Methods in Aerospace Structures	Structures	Tomar	
56100	Intro to Convex Optimization	A & C	Sun	
56400	Systems Analysis and Synthesis	A & C	Corless	
57100	Complex System Safety	Design	Marais	
57500	Introduction to Satellite Navigation and Positioning	ASA	Garrison	
59000AEP	Aerospace Eng Probability and Est.	A&C or Design or ASA	Frazho	

Course number	Course name	Area	Instructor	Course Pre-Reqs/Restrictions
59000 ADC	Attitude Determination & Control	ASA	Frueh	Grads and Seniors only - AAE 440 or AAE 59000 Attitude Dynamics or equivalent, some knowledge on Euclidian probability and statistics is beneficial.
59000CD	Design of Composite Materials and Structures	Structures	Zhang	
59000ET	Estimation & Tracking	ASA	Legrand	
59000ECL	Estimation and Control Lab	A & C	Dai	Grads and Seniors only
59000EPS	Space Flight Operations	ASA/Design	Cunningham	Grads and Seniors only
59000SA	Sustainable Aviaton	Propulsion	Qiao	Grads and Seniors only