

Example of AFMCP suggested tract

Note: specific course program to be determined in consultation with your advisor

AE 400-level (choose 2):

AE 410	Computational Aerodynamics
AE 412	Viscous flow & Heat Transfer
AE 416	Applied Aerodynamics
AE 419	Aircraft Flight Mechanics
AE 433	Aerospace Propulsion
AE 434	Rocket Propulsion
AE 435	Electric Propulsion

AE 500-level (choose 2):

AE 510	Advanced Gas Dynamics
AE 514	Boundary Layer Theory
AE 538	Combustion Fundamentals

Math (choose 1):

MATH 461	EGR: Probability Theory
MATH 488	EGR: Math Methods In Eng.

Other possible electives (examples):

ME 411 ONL:	Viscous Flow & Heat Transfer
CEE 446 ONL:	Air Quality Engineering
CEE 457 ONL:	Groundwater

Breadth-SMM (choose 1):

AE 420	Finite Element Analysis
AE 451	Aeroelasticity
AE 521	Fracture and Fatigue
AE 522	Dynamic Response of Materials
AE 525	Advanced Composite Materials
AE 528	Nonlinear Continuous Media
AE 529	Theory of Linear & Nonlinear Viscoelasticity
AE 550	Nonlinear Aeroelasticity

Breadth-ACDS (choose 1):

AE 402	Orbital Mechanics
AE 403	Spacecraft Attitude Control
AE 454	Systems Dynamics and Controls
AE 482	Introduction to Robotics
AE 502	Advanced Orbital Mechanics
AE 504	Optimal Aerospace Systems
AE 508	Optimal Space Trajectories
AE 554	Dynamical Systems Theory
AE 556	Robust Control
AE 583	Advanced Robotic Planning

ENG 461 ONL:	Technology Entrepreneurship
ENG 560 ONL:	Managing Advanced Technol I
ENG 561 ONL:	Managing Advanced Technol II

[Link to all online AE courses](#)