

M.S. in Aerospace Engineering

The M.S. in Aerospace Engineering degree program at UTEP will prepare students in

- Aerodynamics,
- Propulsion,
- Aerostructures,
- Aerospace dynamics and controls, and
- Aerospace systems engineering and design

Some unique focuses of the program are: defense, small satellite, propulsion systems, exploration vehicles, autonomous systems, and hyper sonics.

Admissions Requirements

- Bachelor of Science degree, or equivalent, in Aerospace Engineering, Mechanical Engineering, or related engineering field.
- An official transcript, with the four baccalaureate degree posted, from the degree-granting institution and copies of transcripts for all other relevant upper-division and graduate work at accredited U.S. institutions or equivalent work and degrees at foreign institutions.
- Two letters of recommendation from individuals qualified to judge their capability to do master-level work.
- Applicants from countries where English is not the first language are required to demonstrate English proficiency. Please consult the graduate school (<http://catalog.utep.edu/admissions/graduate/graduate-student/>) website for required scores.

Degree Plan

Code	Title	Hours
MS in Mechanical Engineering (All courses require a grade of C or better)		
Required Courses:		
MECH 5301	MathI Methods for Mech Eng	3
Major Electives:		
Select 15 hours of the following:		
MECH 5305 or AERO 5305	Comp. Fluid Dynamics Comp. Fluid Dynamics	
MECH 5311 or AERO 5311	Adv Finite Element Analysis Adv Finite Element Analysis	
MECH 5313 or AERO 5313	Mech of Composite Materials Mech of Composite Materials	
MECH 5318 or AERO 5318	Analytical Dynamics Analytical Dynamics	
MECH 5334 or AERO 5334	Space Systems Design Space Systems Design	
MECH 5335 or AERO 5335	Aerospace Propulsion Aerospace Propulsion	
MECH 5336 or AERO 5336	Aerospace Structures Aerospace Structures	
MECH 5337 or AERO 5337	Aero Dynamics and Controls Aero Dynamics and Controls	
Other Electives:		
Select six additional hours of graduate courses in BIOL, CE, CHEM, CS, ECON, ECE, GEOL, IE, IMS, MATH, MECH, MFG, MGMT, MIT, MME, PHYS, SE		
Thesis/Non-Thesis Option:		
Select one sequence below:		
Thesis Option:		
AERO 5398 & AERO 5399	Thesis I and Thesis II	6
Non-thesis Track Option:		
6		

Select six additional hours of graduate courses in BIOL, CE, CHEM, CS, ECON, ECE, GEOL, IE, MATH, MECH, MFG, MGMT, MME, PHYS, SE