DESIGN YOUR JOURNEY



College of Engineering

Department of Mechanical and Aerospace Engineering

Bachelor of Science in Mechanical Engineering

	Beginning the Journey	Trailblazing the Path	Destination Graduation

EDUCATE	- Familiarize yourself with your degree plan.
	- Meet with your advisor once a semester to ensure you're on track for graduation.
	- If you are a freshman student, transition from freshman advising to department advising*.
	  - Freshman advising
	  - Department advising
	- Complete UNIV 1131 or ENGR 1101 to learn about all of the resources available to you & to prepare you to succeed in your major.
		- Complete your pre-professional courses and get admitted to the professional program.
		- Consider pursuing a certificate.
		- Use your flowchart to plan what classes you want to take in the future. Use the catalog to find course descriptions.
		- Consider adding a minor.
			- Interested in a master's degree? Ask your advisor about Fast Track program.
			- Send the latest transcript for any courses taken at a community college.
			- Apply to graduate through MyMav.
			- If you're an international student and need a full-time waiver or OPT form signed, you must see an advisor to have it approved.

ENGAGE	- Participate in the Dean's Challenge. - Join a College of Engineering professional organization (ASME, AIAA, AHS etc.) so you can get to know your peers, begin to make industry connections, pursue your interests, and have fun! - Join a UTA club or a general engineering organization (SWE, SHPE, NSBE) so you can get involved on campus and meet new people. - Attend the Explore MAE Event to get to know your MAE professors and tour MAE research labs. - Apply to join the Honors College.	- Join AeroMavs, the Formula SAE Race Car Team, or the MARS Rover Team. - Participate in the 3D Printed Aircraft Competition. - Contact the Center for Service Learning for volunteer opportunities. - Look into becoming an SI leader or tutor, or working at the IDEAS Center - Participate in the Big Event. - Interested in getting your PhD? Look into the McNair Scholars Program.	- Present at Innovation Day. - Ask a professor about getting involved with the work going on in their labs. - Attend a conference for the field that you want to work in. - Take on a leadership position in a student organization.
EXCEL	- Attend the College-to-Career orientation session with Career Services and fill out the career fields of interest forms. - Speak with Career Services about on-campus and summer job opportunities. - Create a resume so you can work on building it up before you get to graduation. - Create an account on Handshake.	- Carole Coleman is the internship and co-op coordinator for the College of Engineering. Contact her for information on these once you've met the requirements. - Attend a College of Engineering Speed Mentoring event. Attend the College of Engineering Career Fair to network and learn more about companies. It's a great way to find employment and internship opprotunities every semester. - Join MavMentors.	- Finalize your resume so that you are ready to hand it out at job fairs. - Setup a mock interview with the Career Development Center. - Attend the All-Majors Job Fair. - Complete The Job Search course on Canvas. - Talk to a faculty member about the field that you want to go into and what you can do to be a competitive candidate. - Attend the MAE Senior Banquet!

* You can ask your freshman advisor about what these requirments are



MAVERICK ADVANTAGE

Be Bold. Be Ambitious. Set Yourself Apart.

CAREER DEVELOPMENT

- Internships/Co-Ops
- College of Engineering Career Fair
- College of Engineering Speed Mentoring
- All Majors Job Fair
- MavMentors

GLOBAL ENGAGEMENT

- Global Grounds
- Global Mavericks Program
- Study Abroad

LEADERSHIP DEVELOPMENT

- UTA Organizations
- College of Engineering Organizations
- Leadership Minor
- Student Governance
- Fraternity & Sorority Life

COMMUNITY ENGAGEMENT

- Dean's Challenge
- The Big Event
- UTA Volunteers

UNDERGRADUATE RESEARCH

- Innovation Day
- McNair Scholars
- Get Involved With Our Research Labs

College of Engineering

Woolf Hall, Room 204 500 West First Street

P: 817-272-2561 | maeundergrad@uta.edu | uta.edu/r

THE UNIVERSITY OF TEXAS AT ARLINGTON

FIND YOUR CAREER



College of Engineering

Department of Mechanical and Aerospace Engineering

Bachelor of Science in Mechanical Engineering

What career options do I have with this major?

- Power Generation
- Renewable Energy
- Biomedical
- Electronics Cooling and Air Conditioning
- Automotive
- Aerospace
- Manufacturing
- Automation and Robotics

Workforce Skills

- Critical Thinking: Analyze issues, make decisions, and overcome problems by using sound reasoning before forming a strategy, decision, or opinion.
- Professionalism: Display effective work habits, high integrity, and ethical behavior. Possess the ability to demonstrate skills confidently and apply talents to achieve professional success.
- Teamwork/Collaboration: Work within a team and foster collaborative relationships with peers and supervisors. Use interpersonal skills to demonstrate respect and dignity for others while working toward a common goal.

Career Readiness

- Skills in applying the engineering design process to create new products that perform safely and cost-effectively.
- Skills in hands-on experimentation and computer modeling.
- Skills in analyzing and interpreting data obtained through experiments and computer modeling.
- Verbal, written, and graphical skills for communicating technological information and ideas.
- Problem-solving skills applying principles of engineering, math and science to complex problems.

Take Action

- Explore workforce skill development through on and off-campus activities; engage with the UTA Career Development Center at uta.edu/careers
- Meet with a career consultant
- Network with employers
- Discover internships and co-ops
- Apply for on-campus employment
- Join Handshake, our career services platform
- Participate in career development programs
- In addition, all students must complete Capstone design projects: Mechanical engineering majors working in teams design a machine, device, or component-- such as a robot, an air conditioner, a solar stove, a personal assistive device, etc. --- and usually also build a prototype of their design

Visit **www.uta.edu/student-success/major_maps** for the latest version of this major map.

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