

PLAN FOR SUCCESS



College of Engineering

Department of Mechanical and Aerospace Engineering

Bachelor of Science in Aerospace Engineering

1st Year

Fall Semester

UNIV 1131 OR ENGR 1101
MAE 1106
MATH 1426
CHEM 1465
ENGL 1301
U.S. HISTORY ELECTIVE 1

Spring Semester

MAE 1140
MAE 2360
MATH 2425
PHYS 1443
MAE 1351

Summer (Optional)

HOURS	31
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2nd Year

Fall Semester

MATH 3330
MAE 1312
MATH 2326
PHYS 1444
MAE 2381

Spring Semester

MAE 2312
MAE 2323
MAE 2315
MAE 3309
MAE 3360
EE 2320

Summer (Optional)

HOURS	34
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3rd Year

Fall Semester

MAE 3324
MAE 3315
MAE 3181
MAE 3302
MAE 3303
MAE 3185

Spring Semester

MAE 3304
MAE 4314
MAE 3182
MAE 3306
MAE 3405
U.S. History Elective 2

Summer (Optional)

HOURS	31
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4th Year

Fall Semester

TECHNICAL ELECTIVE 1
MAE 4321
MAE 4350
COMS 2302
ECON 2305 OR IE 2308
POLS 2311

Spring Semester

TECHNICAL ELECTIVE 2
MAE 4310
MAE 4151
LANG/PHIL/CULT ELECTIVE
CREATIVE ARTS ELECTIVE
POLS 2312

SENIOR HOURS	34
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TOTAL HOURS	130
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College of Engineering

Wolf Hall, Room 204 500 West First Street

P: 817-272-2561

| maeundergrad@uta.edu | uta.edu/r



THE UNIVERSITY OF TEXAS
AT ARLINGTON

DESIGN YOUR JOURNEY



College of Engineering

Beginning the Journey

- 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 & prepare you to succeed in your major.

Trailblazing the Path

- 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.

Destination Graduation

- Interested in a master's degree? Ask your advisor about Fast Track programs.
- 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.

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

EDUCATE

EDUCATE

EDUCATE

ENGAGE

ENGAGE

ENGAGE

EXCEL

EXCEL

EXCEL

- 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.

- 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 opportunities 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 MAW Senior Banquet!

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

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FIND YOUR CAREER



College of Engineering

What career options do I have with this major?

- Aerospace Industry: Dealing with all aspects of developing aircraft and spacecraft

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

- Problem-solving skills applying principles of engineering, math, and science to complex problems.
- 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.

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 a Capstone project: Aerospace engineering majors conceptually design a complete flight vehicle, integrating aerodynamics, performance, structures, flight dynamics, and economic considerations

Visit uta.edu/majormaps for the latest version of this major map.