

PLAN FOR SUCCESS



College of Engineering

Department of Bioengineering

Bachelor of Science in Biomedical Engineering

(Tissue Engineering)

1st Year

Fall Semester

UNIV 1131 OR ENGR 1101
CHEM 1441
MATH 1426
BIOL 1441
BE 1325

Spring Semester

BE 2315
CHEM 1442
MATH 2425
PHYS 1443
ENGL 1301

Summer (Optional)

HOURS	35
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2nd Year

Fall Semester

PHYS 1444
MATH 2326
BE 3415
HIST 1301
COMS 2302

Spring Semester

EE 2240 OR CSE 2440
MATH 3319
BE 3320
MATH 3316 OR IE 3301
HIST 1302

Summer (Optional)

HOURS	33
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3rd Year

Fall Semester

BE 3308
BE 4382
BE 4368 OR BE 4364 OR BE 4372
BE 3317
POLS 2311
BE 3101 or BE 3191

Spring Semester

BE TECHNICAL ELECTIVE
BE 3310 OR 4312
BE 3301
BE 3367 OR 4365 OR 4373
POLS 2312
BE 3108

Summer (Optional)

HOURS	32
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4th Year

Fall Semester

BE 4337 OR 4314
BE 4350
BE TECHNICAL ELECTIVE
CREATIVE ART
PHIL 1304

Spring Semester

BE 4355
BE 4331 OR BE 4333
BE TECHNICAL ELECTIVE
SOCIAL/BEHAVIORAL SCIENCE

SENIOR HOURS	27
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TOTAL HOURS	127
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College of Engineering

634 Nedderman Hall Box 19019 | 416 Yates Street

P: 817-272-2561

F: 817-272-2630 | uta.edu



THE UNIVERSITY OF TEXAS
AT ARLINGTON

DESIGN YOUR JOURNEY



College of Engineering

Department of Bioengineering

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 & to prepare you to succeed in your major.

Trailblazing the Path

- Complete your pre-professional courses and get admitted to the professional program.
- Attend a "Meet and Greet" in the fall to find out about research going on in this field and help you decide which track to pursue.
- 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

- Ask your advisor about Fast Track Master's and our PhD options.
- See advisor in your final semester to make sure your UMAP is complete.
- 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 BME or COE organization so you can get to know your peers, begin to make industry connections, pursue your interests, and have fun!
- Join a UTA club or organization so you can get involved on campus and meet new people.
- Visit the International Student Center to learn about study abroad opportunities, clubs, on-campus events, and spring break community impact.
- Apply to join the Honors College.

- Participate in a medical device design competition at UTA or other universities.
- 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 Bioengineering Department Seminar Series and other special events.
- 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.

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

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FIND YOUR CAREER



College of Engineering

Department of Bioengineering

What career options do I have with this major?

- Biomedical engineer in industry (orthopedic devices, tissue engineering, biomaterials, prosthetics, medical imaging, biomedical instrumentation, pharmaceutical, etc.)
- Research and development staff scientist
- Nonprofit
- Technical and clinical support in major hospitals or medical centers
- Management in biomedical engineering industry
- Medical doctor, dentist, or attorney (with continuing advanced training in professional schools)

Workforce Skills

- Communication: Develop and articulate idea clearly and effectively across all mediums, including but not limited to written, oral, and digital communication
- Critical Thinking: Analyze issues, make decisions, and overcome problems by using sound reasoning before forming a strategy, decision, or opinion.
- 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

- Ability to identify, formulate, and solve complex engineering problems, including those associated with the interaction between living and non-living systems
- Ability to design and conduct experimentation, analyze, interpret data, use engineering judgement to draw conclusions
- Ability to communicate and function on a team effectively
- Ability to recognize ethical and professional responsibilities
- Ability to acquire and apply new knowledge as needed
- Ability to apply engineering design to produce solutions

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, students are encouraged to participate in
 - Internship Research Lab
 - MES Conference participation
 - UTA Chapter of student BMES organization

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