

## **College of Engineering**

Department of Bioengineering **Bachelor of Science in Biomedical Engineering**(Medical Imaging)

## 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

Summer (Optional)

2nd Year

BE 1105

**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

HOURS

33

35

3rd Year

Fall Semester

BE 3308 BE 4382 BE 3346 BE 3317 POLS 2311 BE 3101 or BE 3191 **Spring Semester** 

BE TECHNICAL ELECTIVE BE TECHNICAL ELECTIVE BE 3301

BE 3301 BE 3344 POLS 2312 BE 3108 Summer (Optional)

HOURS

32

4th Year

Fall Semester

BE 3352 BE 4350 BE TECHNICAL ELECTIVE CREATIVE ART PHIL 1304 Spring Semester

BE 4355 BE 4324

BE TECHNICAL ELECTIVE SOCIAL/BEHAVIORAL SCIENCE

SENIOR HOURS 27

TOTAL HOURS 127

College of Engineering

634 Nedderman Hall Box 19019 | 416 Yates Street

P: 817-272-2561

F: 817-272-2630 | uta.edu





## **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

- Participate in the Dean's Challenge.

your interests, and have fun!

break community impact.

summer job opportunities.

- Create an account on Handshake.

you get to graduation.

on campus and meet new people.

- Apply to join the Honors College

- Complete UNIV 1131 or ENGR 1101 to learn about all of the resources available to you & to prepare you to succeed in your major.

- Join a BME or COE organization so you can get to know

- Join a UTA club or organization so you can get involved

- Visit the International Student Center to learn about study

abroad opportunities, clubs, on-campus events, and spring

- Attend the College-to-Career orientation session with

Career Services and fill out the career fields of interest

- Speak with Career Services about on-campus and

- Create a resume so you can work on building it up before

your peers, begin to make industry connections, pursue

## **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
- Use your flowchart to plan what classes you want to take in the future. Use the catalog to find course descriptions.

- Participate in a medical device design competition at UTA

- Consider adding a minor.

### **Destination Graduation**

## - Ask your advisor about Fast Track Master's and our PhD

- 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.

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## **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

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- Present at Innovation Day.
- Ask a professor about getting involved with the work going
- Attend Bioengineering Department Seminar Series and other speical events.
- Attend a conference for the field that you want to work in.
- Take on a leadership position in a student organization.

- Finalize your resume so that you are ready to hand it out

go into and what you can do to be a competitive candidate.

- Setup a mock interview with the Career Development

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## or other universities. - Contact the Center for Service Learning for volunteer - 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.

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#### - 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.



## - 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

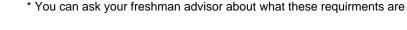
#### **College of Engineering**

at job fairs.

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## **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 engineeering 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 aquire 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
- Participate in an internship research lab, the BMES Conference, or the UTA Chapters of student BMES organizations

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

