

# PLAN FOR SUCCESS



## 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  
BE 1105

#### Spring Semester

BE 2315  
CHEM 1442  
MATH 2425  
PHYS 1443  
ENGL 1301

#### Summer (Optional)

<b>HOURS</b>	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)

<b>HOURS</b>	33
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### 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 3344  
POLS 2312  
BE 3108

#### Summer (Optional)

<b>HOURS</b>	32
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### 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

<b>SENIOR HOURS</b>	27
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<b>TOTAL HOURS</b>	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](http://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](http://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](http://uta.edu/majormaps) for the latest version of this major map.