

ABOUT THE MAJOR

If you want to impact healthcare by designing, building, & creating tools that advance human understanding, health, & quality of life - Biomedical Engineering may be the major for you. Biomedical Engineers use biological science in combination with engineering principles to design & create equipment, devices, computer systems, & software to be used in healthcare. As a student in Biomedical Engineering, your education will include biology concepts as well as training in engineering, so that you can create & deliver biobased solutions to traditional engineering problems. A degree in Biomedical Engineering will prepare you for success & leadership in industry, as well as future study in medicine, science, & engineering. The Biomedical Engineering Department is internationally recognized for its research, discovery, & invention, with research strengths in biomaterials, biomedical devices, neural engineering, & cardiovascular engineering. Regardless of your specific interest area, bioengineering is an exciting field that will allow you to combine your passions for biology & engineering while helping to improve people's lives.




LEARNING OUTCOMES

- Effectively communicate & solve problems at the interface of engineering & biology.
- Understand contemporary questions that link science, medicine, technology, & society.
- Understand & apply industry standards of ethical behavior.
- Be prepared for success in graduate programs, professional schools (including medicine & law), or in a biomedical aligned career.

PLAN & PREPARE

At the U, we plan for our students to have an Exceptional Educational Experience identified by four broad categories we call the Learning Framework: Community, Knowledge & Skills, Transformation, & Impact. This major map will help you envision, explore, design, & plan your personalized Exceptional Educational Experience with the Learning Framework at the core. In addition to assisting you in planning your coursework & navigating the requirements of your major, this map will help you incorporate other kinds of experiences to expand your knowledge, support your development, & prepare you for the future you want.

GET STARTED TODAY

-  Schedule an appointment with an advisor advising.utah.edu
-  Visit ugs.utah.edu
-  Learn more about the Learning Framework ugs.utah.edu/learning-framework



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BME

BIOMEDICAL ENGINEERING

COLLEGE OF ENGINEERING



Community



Knowledge & Skills



Transformation



Impact



THE UNIVERSITY OF UTAH
**EXCEPTIONAL
EDUCATIONAL
EXPERIENCE**
THE OFFICE OF UNDERGRADUATE STUDIES

BIOMEDICAL ENGINEERING

Use this map to explore, envision, design, & plan your Exceptional Educational Experience.

GETTING STARTED

MAKING PROGRESS

FINISHING UP

WHERE CAN I GO AFTER GRADUATION?

COURSES

- Meet with your advisor.
- Start with our Pre-major classes:
 - BME 1010 Careers in Biomedical Engineering
 - BME 1020 Fundamentals of Biomedical Engineering I
 - BME 2100 Fundamentals of Biomedical Engineering II

- Meet with your advisor often to discuss your progress, options for summer course work, & the graduation path that will work best for you.

- Keep track of your own progress by using the Degree Plan Flowcharts; your advisor can make a personalized one for you!

- Track completion of GE¹ requirements, Math & Science courses, & BME requirements.
- Schedule a meeting with your advisor to review your degree audit one semester before graduation.

- Software & hardware engineer
- Bio-materials Developer
- Medical technology developer
- Hospital equipment selector
- Innovative designer & developer Independent Consultant
- Researcher & developer Biomedical Scientist/ Researcher
- Manufacturing Engineer
- Undergraduate preparation for medicine, dentistry or law
- Equipment testing & field servicer
- Rehabilitation Engineer
- Clinical patient evaluator
- Quality Engineer
- Technical documenter
- Software Engineer
- Systems Tester
- Field Service Engineer
- Software Developer

COMMUNITY

- Attend the Get Involved Fair & Engineering Club Rush (info fairs for student organizations on campus).
- Join the BMES² Student Chapter U of U.

- Build strong study groups with your peers.
- Join an engineering student organization.

- Attend research symposiums & other Undergraduate Student Advisory Committee events.
- Check our website calendar for more events.

- Network with your fellow classmates; they could be your future coworkers!
- Join the Engineering Alumni Association.
- Support Biomedical Engineering with a donation.

KNOWLEDGE AND SKILLS

- Explore tutoring resources through the Chemistry, Math, Physics, & Biology Departments or the Learning Center.
- Interview or job shadow with someone in your field of interest.

- Apply to work as a Teaching Assistant, Learning Assistant, &/or Stockroom Attendant to build scientific, technical & communication skills.
- Obtain a position in a research lab, internship, or receive permission to use the design class project.

- Attend the STEM Job Fair in the fall to find internships.
- Join a research team; connect with your current professors or find research interest.

- Present research at national/ regional scientific conferences.
- Meet with your advisor to explore technical elective & review degree audit.

TRANSFORMATION

- Find a mentor by connecting with faculty & student leaders.
- Take a workshop through the Learning Center.
- Attend office hours to get to know your professors.

- Go on a Learning Abroad trip.
- Reach out to professors to engage in research experience.
- Analyze your study skills - What are you doing well to prepare? What could you do differently?

- Attend a wellness workshop or training through the Center for Student Wellness. More information available here.
- Create a budget with a certified financial counselor at the Financial Wellness Center.
- Attend a workshop through the Counseling Center to develop a work-life balance here.

- Take an art class for non-majors.
- Meet with a trusted faculty member to discuss your future plans.
- Finish internships or co-op experiences.

IMPACT

- Attend a Learning Abroad 101 Information Session.
- Engage in service opportunities through the Bennion Center.
- Live in the Kahlert Village.
- Meet with a Student Success Advocate.

- Participate in an Alternative Fall or Spring Break trips through the Bennion Center.
- Judge a local school's science fair.

- Live in the Crocker Science House or become an RA for the Kahlert Village.
- Grow your teamwork & communication skills while working in small groups with other classmates.

- Attend a Hinckley Forum or Frontiers of Science event offered on campus.
- Use your Arts Pass to attend events on campus or visit one of the museums in Salt Lake City.

CAREER

- Start to network with Handshake, LinkedIn, AlumniFire, etc. & get familiar with various features.
- Explore the Career & Professional Development Center's website for resources & interest assessments.

- Complete an internship or undergraduate research experience.
- Update your resume & draft a cover letter.
- Maintain connections with your networks by updating them on your progress & interests.

- Track all the experiences & skills you're gaining throughout your classes, labs, & co-curricular activities in a master resume.
- Complete a mock interview with a Career Coach or an alumni.

- Attend the STEM Career Fair for full-time employment opportunities.
- Meet with your Career Coach to create a comprehensive job search plan.