# Bachelor of Science in Metallurgical Materials & Biomedical Engineering

## Major Map | 2019-2020

### Your Class Schedule

**FRESHMAN**
- Register to take classes in this order: UNIV 1301, Foundations of Engineering; MATH 1411; CHEM; then Metallurgical Materials and Biomedical Engineering (MME) and core curriculum courses.
- Take COMM 1302.

**SOPHOMORE**
- Take MECH 2311, Mechanics of Materials; and CE 2326, Economics for Engineers and Scientists.
- Examine the critical path flow chart.

**JUNIOR**
- Focus on your upper division Metallurgical Materials and Biomedical Engineering (MME) classes.
- Examine the critical path flow chart.

**SENIOR**
- Take MME 4419, MME Design and Practice.
- Complete your major requirements and any remaining electives.

### Academic Advising

**FRESHMAN**
- Meet your PREE Advisor and attend the Intro Compliance session during orientation.
- Declare your Metallurgical Materials and Biomedical Engineering major once you register for MATH 1411 (Calculus I) or higher.

**SOPHOMORE**
- Meet with your PREE Advisor before registration.

**JUNIOR**
- Meet with your Metallurgical Materials and Biomedical Engineering (MME) advisor before registration.
- Discuss your degree plan with your advisor.
- Ask about internship opportunities and about preparing for the Fundamentals of Engineering Exam (FE).

**SENIOR**
- Meet with your Metallurgical Materials and Biomedical Engineering (MME) advisor before registration.
- Review your graduation audit with the Graduation Coordinator.

### Enriching Experiences

**FRESHMAN**
- Explore student organizations at Gold Rush.
- Experience a new culture with a student exchange program.
- Network with peers and organize a study group at the The Foundry.
- Cultivate leadership and teamwork skills at TCM Day.

**SOPHOMORE**
- Join American Foundry Society.
- Explore professional engagement opportunities with SWE and MAES/SHPE.
- Discover community involvement opportunities in your field with the Center for Civic Engagement.
- Strive for high grades to be eligible for induction into Alpha Sigma Mu, the MME Honor Society.

**JUNIOR**
- Explore unique faculty-led travel opportunities with Engineering Global Programs.
- Participate in a technical competition such as Steel Bridge, Concrete Canoe, or Mini Baja.
- Cultivate global awareness at events sponsored by the Office of International Programs.

**SENIOR**
- Cultivate a leadership role with your student organization.
- Expand your community engagement efforts by joining the Ninjaneer Service Learning Program.
- Explore research opportunities with COURI.

### Lifelong Success

**FRESHMAN**
- Discover ACES tutoring resources.
- Explore career opportunities at the Career Expo and the Engineering & Science Expo.

**SOPHOMORE**
- Visit the Career Center Satellite to develop a resume and investigate employment opportunities.
- Cultivate healthy lifestyle habits by visiting the Student Recreation Center.

**JUNIOR**
- Ask a Peer Career Advisor about internship opportunities.
- Revisit the Career Expo and the Engineering & Science Expo.
- Explore graduate programs in Engineering.

**SENIOR**
- Take the Fundamentals of Engineering (FE) Exam.
- Visit the Career Center Satellite for mock interviews and resume review.
- Apply for graduate school or explore career opportunities.

### Edge Advantages:
- Leadership
- Problem-solving
- Communication
- Entrepreneurship
- Social Responsibility
- Confidence
- Global Awareness
- Teamwork
- Critical Thinking

### Career Possibilities:
- Aerospace product and parts manufacturing
- Engineering services
- Primary metals manufacturing
- Computer and electronic product manufacturing
- Research and development

**UPDATED 06/29/18**

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**College of Engineering | Engineering Building | 915-747-6444 | Engineer@UTEP.Edu**
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<thead>
<tr>
<th>Sub #</th>
<th>Course on degree plan to substitute</th>
<th>Institution where course was taken</th>
<th>Name of Course as it appears on UTEP Transcript</th>
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**NOTES:**
* -- C or better required
** -- official substitution form available at http://engineering.utep.edu/plaza/AcademicForms/index.html

BSMME Total Hours: 128