

### **YOUR CLASS SCHEDULE**

#### · Register to take classes in this order: UNIV 1301, Foundations of Engineering; MATH 1411; CHEM; then Mettalurgical Materials and Biomedical Engineering (MME) and core curriculum courses.

Take COMM 1302.

## **ACADEMIC ADVISING**

- · 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.

## **ENRICHING EXPERIENCES**

- · 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.

## LIFELONG **SUCCESS**

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

- · Take MECH 2311, Mechanics of Materials; and CE 2326, Economics for Engineers and Scientists.
- · Examine the critical path flow chart.
- · Meet with your PREE Advisor before registration.
- Discuss your degree plan with your PREE Advisor.
- Ask about the Rising Junior Exam and the Masters of Science in Biomedical Engineering.
- · 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.
- · Visit the Career Center Satellite to develop a resume and investigate employment opportunities.
- Cultivate healthy lifestyle habits by visiting the Student Recreation Center.

- · Focus on your upper division Metallurgical Materials and Biomedical Engineering (MME) classes.
- Examine the critical path flow chart.
- · Meet with your Metallurgical Materials and Biomedical Engineering (MME) advisor before registration.
- · Discuss your degree plan with vour advisor.
- Ask about internship opportunities and about preparing for the Fundamentals of Engineering Exam (FE).
- · Explore unique faculty-led travel opportunities with Engineering Global Programs.
- · Participate in a technical competition such as Steel Bridge, Concrete Canoe, or
- Cultivate global awareness at events sponsored by the Office of International Programs.
- · Ask a Peer Career Advisor about internship opportunities.
- · Revisit the Career Expo and the Engineering & Science Expo.
- Explore graduate programs in Engineering.

- · Take MME 4419, MME Design and Practice.
- · Complete your major requirements and any remaining electives.
- Meet with your Metallurgical Materials and Biomedical Engineering (MME) advisor before registration.
- Review your graduation audit with the Graduation Coordinator
- · 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.
- · Take the Fundamentals of Engineering
- Visit the Career Center Satellite for mock interviews and resume review.
- Apply for graduate school or explore career opportunities.

UPDATED 06/29/18

### **EDGE ADVANTAGES:**

- Leadership
- · Problem-solving
- Entrepreneurship
- Communication
- Social Responsibility
- Confidence
- Global Awareness Critical Thinking
- Teamwork

#### **CAREER POSSIBILITIES:**

- Aerospace product and parts manufacturing
- Engineering services
- Primary metals manufacturing
- · Computer and electronic product manufacturing
- · Research and development



Last Name

# Bachelor of Science in **METALLURGICAL MATERIALS & BIOMEDICAL ENGINEERING** MAJOR MAP CHECKLIST | 2019-2020

First Name



Expires: 08/01/2024

M.I.

CH Sub#	MME 1205* MECH 2342* MME 1301* MME 1101* MME 2303* MME 2305* MME 2434*	Graphic and Design Fundamentals Electro Mechanical Systems Introduction to MME Design Introduction to MME Design Introduction to MME Design Lab Introduction to Materials Science and Engineering Material and Energy Balance Mechanics of Materials	Semester Completed	Final Grade	SCH	Sub #
	MECH 2342*  MME 1301*  MME 1101*  MME 2303*  MME 2305*  MME 2434*  D Major: Req  MME 3306*	Electro Mechanical Systems Introduction to MME Design Introduction to MME Design Lab Introduction to Materials Science and Engineering Material and Energy Balance Mechanics of Materials  quired Upper Division Courses (45 SCH)				
	MME 1301* MME 1101* MME 2303* MME 2305* MME 2434*  D Major: Req MME 3306*	Introduction to MME Design Introduction to MME Design Lab Introduction to Materials Science and Engineering Material and Energy Balance Mechanics of Materials  quired Upper Division Courses (45 SCH)	Semester			
	MME 1101*  MME 2303*  MME 2305*  MME 2434*  D Major: Req  MME 3306*	Introduction to MME Design Lab Introduction to Materials Science and Engineering Material and Energy Balance Mechanics of Materials  quired Upper Division Courses (45 SCH)	Semester			
	MME 2303* MME 2305* MME 2434*  D Major: Req MME 3306*	Introduction to MME Design Lab Introduction to Materials Science and Engineering Material and Energy Balance Mechanics of Materials  quired Upper Division Courses (45 SCH)	Semester			
	MME 2303* MME 2305* MME 2434*  D Major: Req MME 3306*	Introduction to Materials Science and Engineering Material and Energy Balance Mechanics of Materials  uired Upper Division Courses (45 SCH)	Semester			
	MME 2305* MME 2434*  D Major: Req  MME 3306*	Material and Energy Balance Mechanics of Materials  quired Upper Division Courses (45 SCH)	Semester			
	D Major: Req	Mechanics of Materials  quired Upper Division Courses (45 SCH)	Semester			
	D Major: Req	quired Upper Division Courses (45 SCH)	Semester		$\vdash$	_
	MME 3306*	`	Semester			
	-		Completed	Final Grade	SCH	Sub #
	MME 3308*	Rate Processes in Materials System				
$\perp$		Applied Chemical Thermodynamics				
	MME 3309*	Introduction to Electronic Materials Science				
	MME 3312*	Biomaterials				
	MME 3406*	Nanofunctional Physical Metallurgy				
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	MME 4316*	Failure Analysis				
itution	MME 4322*	Nanomaterials and Nanostructures				
	MME 4404*	Materials Processing				
	MME 4413*	Structural Characterization				
	MME 4419*	MME Design and Practice				
	E Technical E	lective (3 SCH)	Competer	Cinal		Sub
	Select and circ	cle one:	Completed		SCH	Sub #
	MME 3314*,	3321*,4330*				
CH Sub#						
	NOTES:					
	* C or bette	r required				
			lu/plaza/Acade	emicForm	ns/index	c.htm
	itution	MME 4322*  MME 4404*  MME 4413*  MME 4419*  E Technical E Select and cirr  MME 3314*,  SH Sub #  NOTES:  * C or bette	MME 4195* Senior Professional Orientation  MME 4303* Metals Processing  MME 4309* Corrosion  MME 4316* Failure Analysis  MME 4322* Nanomaterials and Nanostructures  MME 4404* Materials Processing  MME 4419* MME Design and Practice  E Technical Elective (3 SCH)  Select and circle one:  MME 3314*, 3321*,4330*  NOTES:  * C or better required	MME 4195* Senior Professional Orientation  MME 4303* Metals Processing  MME 4309* Corrosion  MME 4316* Failure Analysis  MME 4322* Nanomaterials and Nanostructures  MME 4404* Materials Processing  MME 4413* Structural Characterization  MME 4419* MME Design and Practice  E Technical Elective (3 SCH)  Select and circle one:  MME 3314*, 3321*,4330*  NOTES:  * C or better required	MME 4195* Senior Professional Orientation  MME 4303* Metals Processing  MME 4309* Corrosion  MME 4316* Failure Analysis  MME 4322* Nanomaterials and Nanostructures  MME 4404* Materials Processing  MME 4413* Structural Characterization  MME 4419* MME Design and Practice  E Technical Elective (3 SCH)  Select and circle one:  MME 3314*, 3321*,4330*  NOTES:  * C or better required	MME 4195* Senior Professional Orientation  MME 4303* Metals Processing  MME 4309* Corrosion  MME 4316* Failure Analysis  MME 4322* Nanomaterials and Nanostructures  MME 4404* Materials Processing  MME 4413* Structural Characterization  MME 4419* MME Design and Practice  E Technical Elective (3 SCH)  Select and circle one:  MME 3314*, 3321*,4330*  NOTES: