



Biomedical Engineering

Transfer New Student Conference
Fall '25





Day 2 Logistics and Details

Schedule for the Day

Time	Session	Location
8:00-8:30am	Day 2 Check-in	Virginia Brown Atrium (Zachry)
8:30-9:00am	Dean's Presentation (Students only)	
9:30-11:30am	BMEN Advising	Emerging Technologies Building 5035 (ETB)
11:30am-12:30pm	Lunch	
1:30-5:00pm	Course Registration	ETB 5035

Day 2 Agenda

- Welcome
- General Information
- Curriculum
 - Career & Track Mentoring
- Degree Planner
- High Impact Experience
- Research
- Internships/ Co-ops
- Review Individual Record
- Set up Fall '25 classes



Come Dine with us



WHERE AM I EATING
DURING NSC?



Dining
Locations
Near Us:

- Option 1
- Option 2

tx.ag/NSCDining

A group of six young women, likely students, are standing in a row outdoors. They are all wearing matching maroon short-sleeved polo shirts with white V-necks and black pleated skirts. Some of the shirts have "Student Life" or "Student" printed on them. They are all smiling and looking towards the camera. The woman on the far right is giving a thumbs up. They are standing on a paved area with greenery and trees in the background. A small table with water bottles is visible on the left.

Who to Contact When

Biomedical Engineering Advisors



Eileen Hoy
Academic Advisor IV
ehoy@tamu.edu
979-845-3539



Sofia Dettmers
Academic Advisor I
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979-458-5683

ETB Information & Access

- Biomedical Engineering offices are on the 5th floor
- Industrial Engineering offices are on the 4th floor
- ETB opens at 7 AM M-F and closes after the last class for the day.
- Study areas on 1st-3rd floors and lobby
- Lab corridor is accessible only to students who are working in a research lab



2025 Degree Plan

Freshman Year - General Freshman Engineering							
Fall Semester				Spring Semester			
Course Abbreviation	Course Name	Credit Hours	Prerequisites	Course Abbreviation	Course Name	Credit Hours	Prerequisites
CHEM 119 or 107/117*	Fund of Chem I & Lab OR Engr Chem	4		CHEM 120*	Fundamentals of Chemistry II &	4	CHEM 119 or 107/117
ENGL 104*	Lec/Lab Composition & Rhetoric	3		MATH 152*	Lab Engineering Math II	4	MATH 151
ENGR 102*	Applied Computation for Engineers	2		PHYS 206*	Physics for Engineers I	3	MATH 151
MATH 151 ₁ *	Engineering Math I	4	MATH 150	PHYS/ENGR 216*	Mechanics and Physical Systems	2	ENGR 102, MATH 151
University Core Elective ₂		3		University Core Elective ₂		3	
Total: 16				Total: 16			
Sophomore Year							
Fall Semester				Spring Semester			
Course Abbreviation	Course Name	Credit Hours	Prerequisites	Course Abbreviation	Course Name	Credit Hours	Prerequisites
BMEN 201 ^{6*}	Professional Development Essentials	3	MATH 152	BMEN 207*	Biomedical Engineering Computing	3	ENGR 102, MATH 152
BMEN 253*	Discovering Biomedical Eng Design Thinking	1		BMEN 250*	Biostatistics and Data Visualization	3	ENGR 102, MATH 152
MATH 251*	Engineering Math III	3	MATH 152	BMEN 254*	Biomedical Engineering Design I	1	BMEN 253
PHYS 207*	Physics for Engineers II	3	MATH 152, PHYS 206	COMM Elective ³		3	
PHYS/ENGR 217*	EM and Electromechanical Systems	2	MATH 152, PHYS/ENGR 216	MATH 308*	Differential Equations	3	MATH 251
VTPP 434	Physiology for Bioengineers I	4		VTPP 435*	Physiology for Bioengineers II	4	VTPP 434
Total: 16				Total: 17			
Junior Year							
Fall Semester				Spring Semester			
Course Abbreviation	Course Name	Credit Hours	Prerequisites	Course Abbreviation	Course Name	Credit Hours	Prerequisites
BMEN 321*	Circuits, Signals, and Systems	3	BMEN 207, BMEN 250, MATH 308, PHYS 207	BMEN 311*	Imaging Living Systems	3	BMEN 207
BMEN 351*	Biomedical and Health Data Science	3	BMEN 207, BMEN 250	BMEN 341*	Biotransport	3	BMEN 207*, MATH 308, PHYS
BMEN 353*	Biomedical Engineering Design II	1	BMEN 254	BMEN 343*	Biomedical Engineering Materials	3	207 BMEN 361, MATH 308
BMEN 399 ^{4*}	Engineering Professional Development	0	BMEN 207, BMEN 250	BMEN 344*	Biological Interactions and Testing	3	MATH 308, VTPP 435
BMEN 361 ^{6*}	Biomedical Engineering Mechanics	3	CHEM 120	BMEN 354*	Biomedical Engineering Design III	2	BMEN 353
CHEM 227*	Organic Chemistry I	3		University Core Elective ²		3	
University Core Elective ²		3		Total: 17			
Total: 16							
Senior Year							
Fall Semester				Spring Semester			
Course Abbreviation	Course Name	Credit Hours	Prerequisites	Course Abbreviation	Course Name	Credit Hours	Prerequisites
BMEN 453*	Analysis and Design Project I	3	BMEN 321, BMEN 344, BMEN 354, BMEN 361	BMEN 454*	Analysis and Design Project II	3	BMEN 453
Technical Electives ^{5*}		9		Technical Electives ^{5*}		6	
University Core Elective ²		3		University Core Elective ²		6	
Total: 15				Total: 15			

FOOTNOTES:

* A grade of C or better is required. C Co-requisite.

1 To be taken after consultation with an academic advisor and in reference to the math placement exam (MPE) taken before the New Student Conference.

2 To be selected from the University Core Curriculum. Of the 21 hours shown as University Core Curriculum electives, 3 must be from each Creative Arts (CA), Social and Behavioral Sciences (SBS), and Language Philosophy and Culture (LPC); 6 from U.S.

History; 3 from POLS 206; 3 from POLS 207. The required 3 hours of International and Cultural Diversity courses.

3 ENGL 210, ENGL 203, COMM 203 OR COMM 205 (choose one)

4 An approved ENGRx activity must be completed at any point prior to graduation. Please see a BMEN advisor for more information on satisfying this requirement.

5 Technical electives are to be selected in consultation with the student's advisor and track coordinator from an approved list available in Howdy and online.

6 Writing Intensive Course

⁶ Co-requisite allowed

Pathway to Medical School

- Prerequisite courses can be added to your degree planner how it works best for you.
- Prerequisite courses should be completed by the end of the fall semester junior year if not planning a gap year.
- Plan on taking MCAT in early spring of junior year
- Office of Professional School Advising is your best resource - <https://careercenter.tamu.edu/Resources/Professional-School-Advising>

Biomedical Engineering PATH TO MEDICAL SCHOOL

Pre-Medicine Requirement

English – 6 hours

Chemistry – 8 hours inorganic

Chemistry – 6 hours organic

Physics – 8 hours with lab

Biology – 8 hours advanced

Statistics – 3 hours

BMEN Curriculum Additions/Substitutions

⇔ Taken as required core electives

⇔ CHEM 119 or CHEM 107/117 & CHEM 120 in BMEN curriculum

⇔ CHEM 227 required in BMEN curriculum
CHEM 228 optional as a technical elective

⇔ PHYS 206/216 (lab), 207/217 (lab) required in BMEN curriculum

⇔ VTPP 434/435 is required in BMEN curriculum

⇔ BMEN 250 is required in BMEN curriculum

Additional Courses

⇔ Biology – 8 hours introductory
BIOL 111 in addition to BMEN curriculum
BIOL 112 in addition to BMEN curriculum

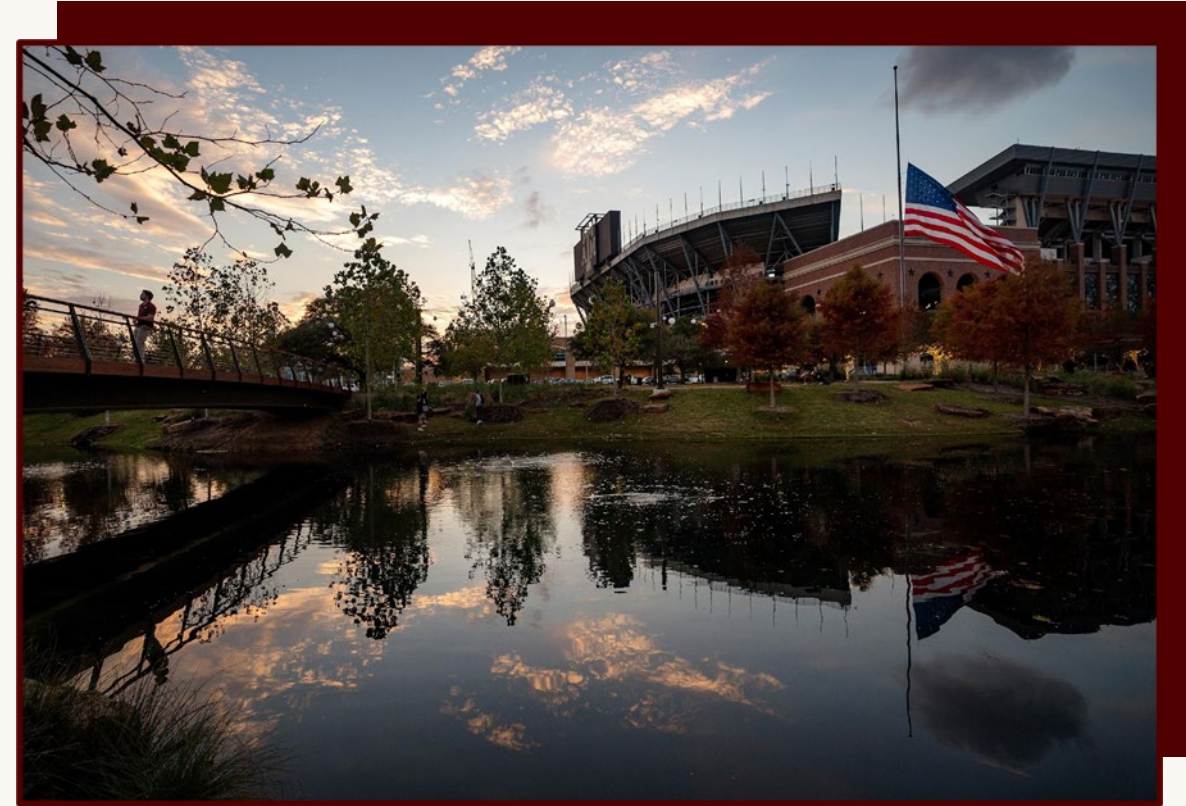
⇔ Biochemistry – 3 hours
BICH 410 in addition to BMEN curriculum

⇔ Chemistry – 2 hours organic
CHEM 237 lab in addition to BMEN curriculum
CHEM 238 lab in addition to BMEN curriculum

PBSI 107 and/or SOCI 205 are suggested prior to taking the MCAT as social and behavioral science requirement.

BMEN Tracks

- Six Focus Areas
 - Biomechanics
 - Cellular and Molecular Bioengineering
 - Computational Bioengineering
 - Regenerative Medicine
 - Medical Devices
 - Imaging, Sensing, & Digital Health



Career & Track Mentoring



Biomechanics

Applies mechanical sciences to biomaterials and biological systems at the nano-, micro-, and macro-scales. Students study the static and dynamic properties of cells, soft and hard tissues, extracellular matrix, and biomaterials. Application areas include medical device design and implantable prosthetics for treating conditions related to musculoskeletal, cardiovascular, and urological disease and aging; occupational, ergonomic, and rehabilitative aides; and instruments for quantitative physiology.



Cellular & Molecular Bioengineering

Affects cellular behavior using molecular-level interactions to understand, detect, mitigate, and improve human health. Students study critical cellular, molecular, and genetic processes, cell-biomaterial interactions, biomolecules, nano- to micro-scale devices, bioreactors, and how to design and control the mechanical, chemical, and electrical processes of cells. Applications include synthetic biology systems, biomanufacturing, diagnostic medicine (lab-on-a-chip, organ-on-a-chip, mechanosensors, etc.), preventative medicine (molecular biosensors and imaging probes, etc.), and therapeutic medicine (drug design and delivery, nanomedicine, immunoengineering, etc.).



Computational Bioengineering

The science of computational approaches to biological and medical problems, including molecular modeling, computational biomechanics, computational bioimaging, and healthcare informatics. Students apply engineering, mathematics, computer and data science, statistics, sciences, and medicine to improve human health using computational approaches to model, analyze, and understand complex biological data across atomic to whole body length scales and femtoseconds to lifetime temporal scales. Application areas include disease and injury modeling and simulation, decoding multi-omics information, pharmaceutical design, development of personalized medical information systems, and bioinformatics.



Imaging, Sensing, & Digital Health

Applies new materials, instrumentation, communication, and analysis approaches to detect and track physical and chemical indicators of health and biology. In this track, students will study the underlying physics and mathematical theory of signal generation, detection, and manipulation; design, fabrication, use, and evaluation of diagnostic systems; device interaction with cells, tissues, and organs; application of analog and digital signal analysis; and fundamentals of embedded system architecture and programming. Applications include various modalities of microscopy and clinical imaging, wearable and implantable sensors, point-of-care desktop of handheld devices, bioreactor and biomanufacturing sensing, and surgical suite sensing.



Medical Devices

Applies engineering to medicine to design, validate, and manufacture instruments, apparatus, implants, machines, tools, in vitro reagents, or similar articles to diagnose, prevent, mitigate, treat, or cure disease or other conditions, and achieves their purpose by physical, structural, or mechanical action within or on the body. Students study the medical design process, prototyping and fabrication, quality engineering, regulatory and reimbursement environments, risk identification and management, market-clinician-patient interactions, preclinical and clinical trials, and computer-aided design and simulation tools. Application areas include surgical and medical instruments, surgical implants and supplies, electro-mechanical and electro-therapeutic devices, in vitro diagnostic clinical kits, dental, auditory, and IC devices, and irradiation and imaging devices.



Regenerative Medicine

Applies cells, biomaterials, and biochemical and biomechanical factors to create functional substitutes to replace tissues or organs lost due to age, disease, injury, or congenital defects, and functional mimics for the study of biological systems. Students study the manipulation of molecular, cell, and tissue microenvironments; development and characterization of "smart" and biomimetic biomaterials that promote structure and function; bioreactors and bioprinting; testing, manufacturing, and translation of cell- and biomaterial-based products; and applications of artificial organs, drug delivery, and implanted devices. Application areas include musculoskeletal, urologic, neural, and vascular tissues and organs, as well as wound healing and hemostasis.

Career & Track Mentoring

Biomechanics Track Form

Upon completion of this form with the track mentor, email it to bmentrackadvising@tamu.edu

SCOPE: Biomechanics applies mechanical sciences to biomaterials and biological systems at the nano-, micro-, and macro-scales. In this track, students will study the static and dynamic properties of cells, soft and hard tissues, extracellular matrix, and biomaterials. Application areas include medical device design and implantable prosthetics for treating conditions related to musculoskeletal, cardiovascular, and urological disease and aging; occupational, ergonomic, and rehabilitative aides; and instruments for quantitative physiology.

Once the student portion of this form is complete, schedule an appointment with your assigned track mentor for course selection discussion and career mentoring. Track mentors: Drs. Avaz, Criscione, Graul, Hedman, S. Horn, Tian.

Name: _____ UIN: _____
TAMU Email: _____ Graduation Term: _____

Part I: Career Mentoring

To be completed by student prior to meeting

* I confirm that I have read the attached BMEN Career Mentoring Guide _____ (student initials)

What career trajectory do you currently see yourself pursuing after graduation?

☐ Industry ☐ Medical School ☐ Graduate School ☐ Military ☐ Other

Please elaborate using the questions for your respective track incorporated into the career mentoring guide (use additional pages if necessary):

Briefly elaborate on your completed activities and planned engagement (ex. BMES – VP; Stryker – internship).

	Completed	Planned
Research		
Study Abroad		
Volunteering		
Internship		
Co-op		
Shadowing		
Organization(s):		
Other:		

Please mark which resources you utilized to help you be successful in obtaining your goals upon graduation:

- ☐ Craft a profile on Texas A&M Career Center's website HireAggies.com
- ☐ Attend the SEC Career Fairs
- ☐ Attend BMES weekly meetings
- ☐ Create a resume and a cover letter and have them reviewed by the Career Center and Writing Center staff
- ☐ Build a LinkedIn account – <https://www.linkedin.com/in/>_____
- ☐ If continuing education, study for and take the appropriate entry exams (GRE, MCAT, LSAT, etc.)
- ☐ If attending professional school, meet with a mentor in the Texas A&M Office of Professional School Advising

To be completed by track mentor during meeting

Comment on the student's plans and progress as applicable.

Part II: Course Mentoring – Select 15 hours from the courses below

To be completed by student prior to meeting

Required Track Courses (6 hours)

- ☐ BMEN 463 Soft Tissue Mechanics and Finite Element Methods

AND one of:

- ☐ BMEN 457 Orthopedic Biomechanics
☐ BMEN 458 Motion Biomechanics
☐ BMEN 461 Cardiac Biomechanics

Track Courses (Select 6-9 hours)

- ☐ BMEN 432 Molecular and Cellular Biomechanics
☐ BMEN 457 Orthopedic Biomechanics
☐ BMEN 458 Motion Biomechanics
☐ BMEN 461 Cardiac Biomechanics
☐ BMEN 491 Research (up to 3 hours)
☐ MEEN 363 Dynamics and Vibrations
☐ MEEN 368 Solid Mechanics for Mechanical Design

† MEEN courses have prerequisites, but some BMEN courses may substitute. Discuss with scheduled instructor.

Other Courses (Select 0-3 hours)

- ☐ ACCT 640 Accounting Concepts & Procedures I
(ACCT 640 for MSF students only)
☐ BMEN 4XX BMEN Elective (subject to track mentor approval) _____
☐ BMEN 404 FDA Good Laboratory and Clinical Practices
☐ BMEN 469 Entrepreneurial Issues in Biomedical Engineering
☐ CHEM 228 Organic Chemistry II
☐ ENGR 385 Co-Op
☐ ENGR 410 Global ENGR Design (Only for students pursuing Int'l ENGR certification)
☐ VTPP 401 History of Medicine in Europe
☐ VTPB 410 Cell Mechanisms of Disease

If requesting a course not listed above, list here:

Course Number	Course Name	# of Hours	Track Mentor Initials	Dir. of UG Programs Initials

To be completed by the track mentor (if applicable): The approval of a deviation is made by the Director of Undergraduate Programs who takes into consideration the recommendation of the track mentor. Please explain why the deviation from the approved list is appropriate for this student.

Approved and discussed by:

_____ Student signature and date	_____ Director of Undergraduate Programs signature and date (if deviating)
_____ Track Mentor printed name	_____ Track Mentor signature and date

Degree Planner


- Demo video and guides available in Howdy
- Log in to Howdy and go to My Dashboard
- Click on My Record
- Then click on Undergraduate Degree Planner
- Agree to Terms of Use
- Continue to Degree Plan

Curriculum Information

Primary Curriculum

Program: BS BMEN
Catalog Term: Fall 2023 - College Station
Level: Undergraduate
Campus: College Station
College: Engineering
Degree: Bachelor of Science
Major: Biomedical Engineering
Department: Biomedical Engineering

Latest Degree Plan Approval Status

Degree Plan	Program	Submit Date	Advisor Action Date	Status	Comment
3	BS-BMEN	25-SEP-2023	27-SEP-2023	Approved	

On 05/08/2024 01:25 PM the student checked the degree plan against **BS-BMEN**

This student has **57** planned course(s) on their degree plan.

☒ Degree Plan for your Primary Program - BS-BMEN

☒ Agree to Terms of Use

Continue to Degree Plan

Degree Planner Continued

Curriculum Info	Approval	View Plan	Degree Evaluation	Template	PreReq Check	Course History	Links
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Degree Evaluation Results including Planned Courses (Generated: Sep 07, 2017 10:29 am)

Program Evaluation

Limitation

Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation

Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Degree :

Bachelor of Science (BS BMEN)

Catalog Term :

Fall 2017 - College Station

Majors :

Biomedical Engineering

Minors :

	Met	Credits	Courses		
		Required	Used	Required	Used
Total Required :	No	128.000	113.000		43
Overall GPA :	Yes	2.00	4.00		

Expand all

Area Description	Met Indicator	Progress Bar
+ Major Coursework (41.00 CR)	Met(with Planned Courses)	4 37
+ Supporting Coursework (13.00 CR)	Met(with Planned Courses)	10 3
+ Technical Electives (15.00 CR)	Not Met	15
+ Communication (6.00 CR)	Met	6
+ Mathematics (8.00 CR)	Met	8
+ Life and Physical Sciences (24.00 CR)	Met(with Planned Courses)	20 4
+ Language, Philosophy & Culture (3.00 CR)	Met(with Planned Courses)	3
+ Creative Arts (3.00 CR)	Met	3
+ Social and Behavioral Sciences (3.00 CR)	Met	3
+ Citizenship (12.00 CR)	Met(with Planned Courses)	9 3
+ Work Not Applied		
+ High Impact Experience	Not Met	

Degree Planner Cont.

Second Year									
Fall 2021					Spring 2022				
	Add	Course	Hrs	Term		Add	Course	Hrs	Term
	<input checked="" type="checkbox"/>	BMEN 101	1	<input type="button" value="v"/>		<input checked="" type="checkbox"/>	BMEN 211	3	<input type="button" value="v"/>
	<input checked="" type="checkbox"/>	BMEN 207	3	<input type="button" value="v"/>		<input checked="" type="checkbox"/>	BMEN 253	1	<input type="button" value="v"/>
	<input checked="" type="checkbox"/>	ENGR 217	2	<input type="button" value="v"/>		<input checked="" type="checkbox"/>	CHEM 227	3	<input type="button" value="v"/>
	<input checked="" type="checkbox"/>	MATH 251	3	<input type="button" value="v"/>		<input checked="" type="checkbox"/>	MATH 308	3	<input type="button" value="v"/>
	<input checked="" type="checkbox"/>	PHYS 207	3	<input type="button" value="v"/>		<input checked="" type="checkbox"/>	VTPP 435	4	<input type="button" value="v"/>
	<input checked="" type="checkbox"/>	VTPP 434	4	<input type="button" value="v"/>		Total:		14	
Total: 16									
Additional Information					Additional Information				
Additional Information					Additional Information				
BMEN 101 fulfills one of two "writing intensive" courses.					Students should consider also taking three hours of University Core Curriculum.				
ENGR/PHYS 217 is crosslisted, either may be taken									

Third Year				
Fall 2022				
	Add	Course	Hrs	Term
	<input checked="" type="checkbox"/>	BMEN 305	1	<input type="text" value=""/>
	<input checked="" type="checkbox"/>	BMEN 321	3	<input type="text" value=""/>
	<input checked="" type="checkbox"/>	BMEN 341	3	<input type="text" value=""/>
	<input checked="" type="checkbox"/>	BMEN 343	3	<input type="text" value=""/>
	<input checked="" type="checkbox"/>	BMEN 350	3	<input type="text" value=""/>
Total:			13	
Additional Information				
Additional Information				
Students should consider also taking three hours of University Core Curriculum.				
Students can choose to participate in an activity from an approved list (such as undergraduate research) to satisfy their ENGRx requirement, if not already met. Talk to your advisor for more information.				
Spring 2023				
	Add	Course	Hrs	Term
	<input checked="" type="checkbox"/>	BMEN 344	3	<input type="text" value=""/>
	<input checked="" type="checkbox"/>	BMEN 345	1	<input type="text" value=""/>
	<input checked="" type="checkbox"/>	BMEN 353	1	<input type="text" value=""/>
	<input checked="" type="checkbox"/>	BMEN 361	3	<input type="text" value=""/>
	<input checked="" type="checkbox"/>	BMEN 420	3	<input type="text" value=""/>
Total:			11	
Additional Information				
Additional Information				
Students should take three hours of Technical Electives after consulting with the Academic Advisor.				
Students should also consider also taking three hours of University Core Curriculum.				

Fourth Year				
Fall 2023				
Add	Course	Hrs	Term	
<input checked="" type="checkbox"/>	BMEN 452	3	2023 Fall	
<input checked="" type="checkbox"/>	BMEN 453	2	2023 Fall	
<input checked="" type="checkbox"/>	BMEN 465	1	2023 Fall	
Total:		6		
Additional Information				
Additional Information				
Students should take six hours of Technical Electives after consulting with their Track Advisor.				
Students should consider also taking three hours of University Core Curriculum.				

Spring 2024				
Add	Course	Hrs	Term	
<input checked="" type="checkbox"/>	BMEN 450	1	2024 Spring	
<input checked="" type="checkbox"/>	BMEN 454	2	2024 Spring	
		Total:	3	
Additional Information				
Additional Information				
BMEN 450 fulfills one of two "writing intensive" courses.				
Students should take six hours of Technical Electives after consulting with their Track Advisor.				
Students should consider also taking six hours of University Core Curriculum.				

Curriculum Info	Approval	Edit Plan	View Plan	Degree Evaluation	Template	PreReq Check	Course History	Links
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Degree Evaluation Results including Planned Courses (Generated: Aug 31, 2016 10:03 am)

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Degree :Bachelor of Science (BS BMEN)

Catalog Term :Fall 2015 - College Station

Majors :Biomedical Engineering

Minors :

Met	Credits		Courses	
	Required	Used	Required	Used
Total Required :	No	128.000	107.000	41
Overall GPA :	Yes	2.00	4.00	

Expand all

Area Description	Met Indicator	Progress Bar
+ Major Coursework (41.00 CR)	Met(with Planned Courses)	4 37
+ Supporting Coursework (28.00 CR)	Not Met	7 6 15
+ Communication (6.00 CR)	Not Met	6
+ Mathematics (8.00 CR)	Met	8
+ Life and Physical Sciences (24.00 CR)	Met(with Planned Courses)	20 4
+ Language, Philosophy & Culture (3.00 CR)	Met(with Planned Courses)	3
+ Creative Arts (3.00 CR)	Met(with Planned Courses)	3
+ Social and Behavioral Sciences (3.00 CR)	Met	3
+ Citizenship (12.00 CR)	Met(with Planned Courses)	9 3
= Work Not Applied		

Progress Bar

Taken/Registered

Planned

Not Satisfied

*Numbers mean credit hours.

Degree Planner Final Checks

Curriculum Info

Approval

View Plan

Degree Evaluation

Template

PreReq Check

Course History

Links

Degree Evaluation Results including Planned Courses (Generated: Sep 07, 2017 10:29 am)

Program Evaluation

Limitation

Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation

Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Degree :

Bachelor of Science (BS BMEN)

Catalog Term :

Fall 2017 - College Station

Majors :

Biomedical Engineering

Minors :

	Met	Credits Required	Used	Courses Required	Used
Total Required :	No		128.000	113.000	43
Overall GPA :	Yes		2.00	4.00	

Expand all

Area Description	Met Indicator	Progress Bar
✦ Major Coursework (41.00 CR)	Met(with Planned Courses)	4 37
✦ Supporting Coursework (13.00 CR)	Met(with Planned Courses)	10 3
✦ Technical Electives (15.00 CR)	Not Met	15
✦ Communication (6.00 CR)	Met	6
✦ Mathematics (8.00 CR)	Met	8
✦ Life and Physical Sciences (24.00 CR)	Met(with Planned Courses)	20 4
✦ Language, Philosophy & Culture (3.00 CR)	Met(with Planned Courses)	3
✦ Creative Arts (3.00 CR)	Met	3
✦ Social and Behavioral Sciences (3.00 CR)	Met	3
✦ Citizenship (12.00 CR)	Met(with Planned Courses)	9 3
✦ Work Not Applied		
✦ High Impact Experience	Not Met	

- If there are any areas in red, you need to correct the issue or explain in the comment box
- Check for overloads in a semester
- The tech electives are listed on the Career & Track Forms for each track in Canvas
- Watch for warning triangles
- Click on the Prereq Check tab for any unmet prerequisites

Curriculum Info	Approval	Edit Plan	View Plan	Degree Evaluation	Template	PreReq Check	Course History	Links									
<p>All course prerequisites must be fulfilled by the term in which a course is planned to be taken. Below are planned courses which have unfulfilled prerequisites. These errors may be corrected by adding the missing prerequisite courses to your degree plan or by moving the planned course to a term which is after the prerequisite course.</p> <p>Note: 'Concurrency: N' indicates the prerequisite course must be taken in a term prior to the planned course. 'Concurrency: Y' indicates the prerequisite course may be taken in the same term as the planned course.</p> <table><tr><th>Course</th><th>Planned Term</th><th>Prerequisites</th></tr><tr><td colspan="3">All prerequisites have been met for your planned courses.</td></tr><tr><td colspan="3"><input type="button" value="Add Additional Courses to Degree Plan"/></td></tr></table>									Course	Planned Term	Prerequisites	All prerequisites have been met for your planned courses.			<input type="button" value="Add Additional Courses to Degree Plan"/>		
Course	Planned Term	Prerequisites															
All prerequisites have been met for your planned courses.																	
<input type="button" value="Add Additional Courses to Degree Plan"/>																	

6

[Print](#)

Degree Planner Submission

- University required students to submit an updated degree plan annually between March 1st & September 30th
- We suggest submitting during the summer before the fall semester starts or at the beginning of September

+ University Writing Requirement	Met
+ Int'l & Cult Diversity	Met
+ Foreign Language	Met
+ Residence Requirement	Met
+ GPR-Major	Met

Expand all

Submit Degree Plan for Advisor Approval

Provide comments below including explanations for requirements which are not met.

Student Comments:

Enter your comment here

Submit Degree Plan for Approval

Course Source Legend:

- R - Registered Course
- H - Completed Course at Texas A&M University
- T - Completed Transfer Course or Credit by Exam
- E - High School Foreign Language
- P - Planned Texas A&M University Course
- S - Planned Transfer Course





High Impact Experience

- Purpose
 - Get students out of the classroom to get hands-on experience
- What counts?
 - Study Abroad, Aggies Invent, Aggie Challenge, Internships, Co-ops, etc.
 - Have you done something else? Talk to an advisor
- **Signing up for BMEN 399**
- Complete the Google form in Canvas the semester following completion

INDUSTRY	RESEARCH
<ul style="list-style-type: none">• Co-ops• Summer Enrichment Experience• Internships• Career Fairs• BME Project Showcase	<ul style="list-style-type: none">• Single and multi-semester opportunities• Volunteer, get paid or receive class credit• Mentoring from faculty and grad students

STUDENT ORGANIZATIONS

There are more than 1,100 student organizations offered through the university.
Popular groups for biomedical engineering students include:




Research

Joining a lab

- See our faculty labs listed on our website
- Reach out with a professional email and attach your resume
- Search other departments' websites

Signing up for credit

- Discuss credit hours with your PI
- Rule of thumb: 1 credit hour = a minimum of 3 hours per week in lab
- Submit a form each semester

 **BIOMEDICAL ENGINEERING**
TEXAS A&M UNIVERSITY

Undergraduate BMEN Research Approval Form

BMEN 291 BMEN 491

This form must be completed and turned in to the BMEN Advising Office for you to be registered.

Student Name: UIN: Major:

Email Address:

Semester and year you are requesting for enrollment:

Semester: Year:

Honors Credit: Credit Hours Requested:

Printed Name of your Supervising Faculty Member (MUST be BMEN faculty or affiliated BMEN faculty)

By signing below, I understand I am responsible for paying any tuition and fees associated with the addition of this credit.

Student Signature (1): Date:

To be completed by Faculty for Research

Brief Description of Proposed Project (attach proposal if necessary):

Supervising Faculty Member's Signature (2) Co-Supervising Faculty Member's Signature

After form is completed and signed by faculty project supervisor, please bring to a BMEN Academic Advisor for review. If approved, they will register you for this course.

To be completed by Advisor

Approved: Date Registered:

Section Number: CRN: Student notified:

(1) Student signature indicates agreement to complete all safety training requirements
(2) When project is interdisciplinary



Internships & Co-ops

Internships:

- Completed over summer
- Some part-time during fall/spring

Co-ops:

- Usually 6 or 12 months
- Will include at least 1 fall or spring
- Will be considered full-time

Where to find opportunities:

- BMEN Undergraduate listserv
- BMEN Career Fair
- College of Engineering Career Fairs
- BMEN Summer Enrichment Experience
- Career Center
- LinkedIn Resume Bank

Thanks & Gig 'em!

Contact Us



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