

Biological and Agricultural Engineering

STUDENT HANDBOOK 2022-2023



HELPFUL DEGREE PLANNING
RESOURCES INSIDE

GET INVOLVED WITH A
BAEN/AGSM STUDENT GROUP

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WELCOME

To the department of Biological and Agricultural Engineering



As a student in this department, you are advised to use this handbook (along with other important sources of official information) to aid in your successful navigation of our program. While we have worked diligently to make sure that this information is as accurate as possible, please note that changes in information, deadlines, and curriculum can occur and you should plan regular visits with your academic advisor to ensure that you are staying on track for your degree

requirements. Also, please be aware that each student has the responsibility to be fully acquainted with and to comply with the Texas A&M University Student Rules. Official information sources include:

The Undergraduate Catalog

<https://catalog.tamu>

University Student Rules

<https://student-rules.tamu.edu/>

Schedule of Courses

<https://howdy.tamu.edu/>

The BAEN Undergraduate Website

<https://baen.tamu.edu/>

The Biological & Agricultural Engineering Undergraduate Office will use your TAMU student email for all communication (this account will also be your official form of communication with the BAEN Department and Texas A&M University, so be sure to check your TAMU email on a daily basis!)

SOCIAL MEDIA

Twitter - @tamubaen

Facebook - @tamubaen

Instagram - @tamubaen

CONTACT US

BAEN undergraduate office

333 Spence St.

SCTS 303

College Station TX - 77843

979-845-3931

<https://baen.tamu.edu>

303 Scoates Hall

In the College of Agriculture and Life Sciences we have aligned our academic advising to better support students during their time at Texas A&M University. We have assembled a diverse and knowledgeable advisor community dedicated to providing our students with high-quality academic advising services.

Our advisors are grouped into seven “advising centers” based on location, courses of study and/or related commonalities.



Meet your Director & Advisor

Dr. Elena Castell-Perez



Director of BAEN
Undergraduate Program
Associate Dept. Head
Professor
311 – Scoates Hall
979-862-7645
elena.castell-perez@ag.tamu.edu

Mr. Russell McGee



Director of AGSM
Undergraduate Program
Lecturer
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979- 845-3659
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Ashlea Schroeder



Senior Academic
Advisor 303H
Scoates Hall
979-845-0609
aschroeder@tamu.edu
BAEN & AGSM

NEED HELP?

Drop-in appointment periods are when advisors will offer a time for students without an appointment to come in on a first-come, first served basis to have their questions answered.

Since advisors are trying to help students move through the line quickly, drop-in appointments are for quick questions only. If offered, upcoming drop-in times will be posted in the weekly newsletter and be visible in Navigate.



Meeting with your academic advisor

GOOD THINGS TO KNOW ABOUT

Did you know it's always a good idea to plan to meet with your academic advisor at least once a semester to make sure you're on track for your degree? Your academic advisor is a partner in your academic journey as you move through and graduate from Texas A&M University and can help you explore your interests, select courses, develop your degree plan, and meet your degree requirements. Academic advisors can also connect you with academic and personal support programs, co-curricular opportunities, and career options.

Here's what your advisor will expect from you as a student:

- Attend academic advising appointments prepared. Bring all advising related materials and questions and be sure to do your research to make sure the answers to your questions aren't easily found elsewhere.
- Clarify your personal values and goals.
- Activate and daily check your TAMU e-mail account for communications from the University faculty, staff, and administration and read the weekly newsletter for updates.
- Check for registration holds and eligibility in HOWDY and know the academic calendar.
- Use campus resources.
- Ask questions if you do not understand an issue or have a concern.
- Accept responsibility for your decisions and actions that affect your educational progress and goals.
- Contact your advisors yourself (i.e. advisors cannot provide information about a student or their record to parents or other individuals due to FERPA regulations)
- If emailing, use your TAMU student account, include your UIN, and provide enough context for your advisor to understand the issue (allow at least 24-48 hours for a response).

**In the event you are unable to attend a scheduled appointment, please be sure to cancel your appointment in Navigate. 3 "No-Shows" will prevent a student from scheduling appointments for the rest of the semester.*

TIP: During peak advising times (preregistration, start of the semester, etc.), most appointments will be set to the 15 minute "Preregistration" option in Navigate to help as many students as possible.

Schedule Appointments



Scheduled appointments can be booked using the Navigate feature in Howdy. Appointments fill up quickly, so plan on possibly having to book your appointment at least 1-2 weeks in advance. There are several different appointment types available (General Advising, Minor, Q-Drop, etc.), and students have the option to select either a virtual or in-person meeting. **ALWAYS BE SURE TO READ THE COMMENTS SECTION BEFORE CONFIRMING YOUR APPOINTMENT BOOKING!**

Degree Planner



While your degree planner isn't "set in stone" and you can always make changes as you go along, this feature in Howdy will help you make sure you are planning to take all of your prerequisites in the right order. Students will have an annual hold placed on their account that will not be removed until an advisor has verified that the plan is on track for graduation. Since the degree planner hold can prevent you from registering for classes, you'll want to be sure and submit your planner early since it can take 2-4 weeks on average for an advisor to review the planned coursework. Be sure to look for the degree planner tutorials and then set up an advising appointment to go over how you can personalize your degree towards your career interests!

Use NAVIGATE

To schedule your advising appointments with SCTS
Advising Hub




College of Ag & Life Sciences
Navigate – 2 easy ways to schedule

Visit [Howdy](#)

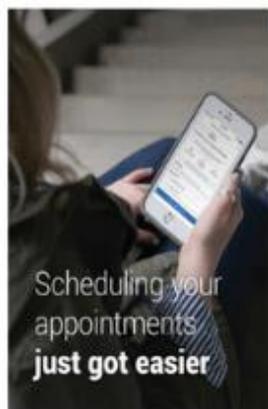
- Go to **My Record** tab 
- Click: **Navigate – Schedule Advising Appointments**
- Select: 
- Select:
 - Type Appt. - **Advising Texas A&M University**
 - College/Reason – **AG – Agriculture & Life Sciences Undergraduate Advising**
- Choose:
 - Reason for Appointment – ex. **AG – General Advising**
 - Location by major – ex. **AGSM/BAEN – see Additional Details**

Appointment Day & Time
Review Appointment Details

Don't forget to click 

Download [Navigate Student app](#)

Schedule and track appointments in the app!



Download today! Win Prizes!

- Search [Navigate Student](#) in the app stores
- Select **Texas A&M - College Station**
- Log in using your NetID and password
- Click  to schedule

Scheduling your appointments just got easier



See full tutorial here:
[EAB NAVIGATE Student Appointment Training](#)



GET SOCIAL WITH US



@tamu.baen



@tamu.baen

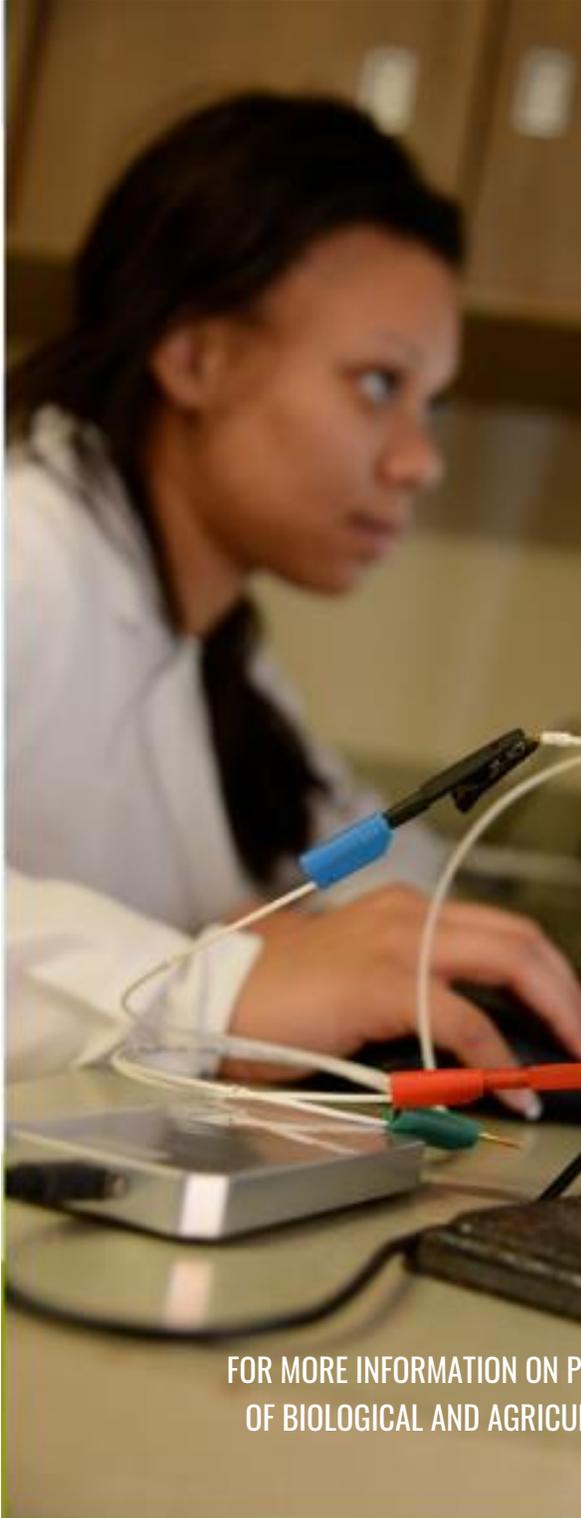


@tamu.baen

ABOUT BAEN



WHO HIRES



Biological and Agricultural Engineering Majors? *IN A WORD: ANYONE!*

STUDENTS CAN APPLY FOR
ANY JOB REQUIRING A DEGREE
WITH EXPERIENCE IN ENGINEERING

AECOM, Ardent Mills ,
Blue Bell Creameries,
Cargill , Case IH, Caterpillar,
PepsiCo, Kellogg's, Kraft, HEB,
Honeywell, Halliburton, Cargill,
M&M Mars, ADM, IDS Engineering
Lockwood, Kubota, John Deer,
Martin Marietta Materials,
FUJIFilm, Smucker's, Tetra Pak,
Anheuser Busch, TxDOT, Trane, USDA
and many more!

FOR MORE INFORMATION ON POTENTIAL CAREERS FOR MAJORS IN THE DEPARTMENT
OF BIOLOGICAL AND AGRICULTURAL ENGINEERING, PLEASE SEE THE BAEN WEBSITE
FACT SHEETS.

Bachelor of Science in
BIOLOGICAL AND
AGRICULTURAL ENGINEERING



Based on a survey taken in Fall 2021 by the Texas A&M University Career Center, students graduating with a degree in Biological & Agricultural Engineering reported an average starting salary of \$70,000, with the highest starting salary reported at \$100,000.

BAEN Degree Plan - 2022

BIOLOGICAL & AGRICULTURAL ENGINEERING UNOFFICIAL DEGREE PLAN

STUDENT'S NAME: _____

Catalog 2022

STUDENT'S ID#: _____

DATE: _____

FACULTY ADVISOR'S NAME: _____

For students entering during the 2022-2023 school year. See undergraduate catalog for requirements and course descriptions.
Foreign Language Requirements: 2 yrs. HS or 1 yr. College. Total credits required: 127

GR	COURSE	CR.	PREREQUISITE	GR	COURSE	CR.	PREREQUISITE
FRESHMAN							
_____	ENGL 104 (3-0)	3		_____	ENGL 210 (3-0)	3	
_____	ENGR 102 (1-3)	2	MATH 151*	_____	PHYS 206 (3-0)	3	MATH 151;
_____	MATH 151 (3-2)	4	MATH 150 or >22 on TAMU MPE	_____	ENGR 216 (1-3)	2	MATH 151; ENGR 102; PHYS 206*
_____	CHEM 107 (3-0)	3	CHEM 117*	_____	POLS 206 (3-0)	3	
_____	CHEM 117 (0-3)	1	CHEM 107*	_____	MATH 152 (3-2)	4	MATH 151
_____	American Hist. ^{1,2}	3					
		<u>16</u>				<u>15</u>	
SOPHOMORE							
_____	BAEN 201 (2-3)	3	ENGR 102, MATH 151, CHEM 107/117	_____	CHEM 222 (3-0)	3	CHEM 107
_____	MEEN 221 (2-2)	3	MATH 251*; PHYS 206	_____	BAEN 301 (2-3)	3	MEEN 221*
_____	BIOL 111 (3-3)	4		_____	BAEN 320 (2-2)	3	MEEN 221; MATH 251*
_____	MATH 251 (3-0)	3	MATH 152	_____	CVEN 305 (3-0)	3	MEEN 221
_____	PHYS 207 (3-0)	3	MATH 152, PHYS 206, ENGR 217*	_____	MSEN 222 (3-0)	3	CHEM 107; PHYS 206
_____	ENGR 217 (1-3)	2	MATH 152, PHYS 206/216, PHYS 207*	_____	MATH 308 (3-0)	3	MATH 251*
		<u>18</u>				<u>18</u>	
JUNIOR							
_____	BAEN 302* (2-3)	3	BIOL 111, CHEM 222*	_____	BAEN 365 (2-3)	3	BAEN 340; CVEN 305*
_____	BAEN 340 (3-0)	3	MEEN 221, BAEN 320*	_____	BAEN 366 (3-0)	3	BAEN 320, 340, 365*; MATH 308
_____	BAEN 354 (2-3)	3	MSEN 222	_____	BAEN 370 (2-2)	3	ECEN 215
_____	BAEN 375 (3-0)	3	CVEN 305	_____	MATH Elect. ³	3	
_____	ECEN 215 (2-2)	3	MATH 251; PHYS 207	_____	POLS 207 (3-0)	3	
		<u>15</u>				<u>15</u>	
SENIOR							
_____	BAEN 479 (3-0)	3	BAEN 340, 365, (366 or 370), 354*, 375*	_____	BAEN 480* (0-6)	3	BAEN 479
_____	BAEN 399 ⁵	0		_____	BAEN Elect. ³	3	
_____	Lang, Phil, & Cult. ^{1,2}	3		_____	Tech. Elect. ³	3	
_____	BAEN Elect. ³	3		_____	American Hist. ^{1,2}	3	
_____	ENGR Elect. ³	3		_____	Creative Arts Elec. ^{1,2}	3	
_____	Soc. Sci. Elec. ^{1,2}	3				<u>15</u>	
		<u>15</u>					

* Must Co-Register

Total Degree Hours 127

ICD/CD²: _____

Notes: Grade Requirement: A grade of C or better is required for all courses in engineering, math, and science.

1. To be selected from the University Core Curriculum.

2. The 3 hours of international and cultural diversity and 3 hours of cultural discourse courses, as required for graduation, may be met in the curriculum. Students may select Language, Philosophy, and Culture, Social and Behavioral Sciences, Creative Arts, or American History Electives that also meet the ICD/CD requirement.

3. To be selected from departmental list of approved courses.

4. All undergraduate students must take at least two (2) specific courses in their major designated as writing intensive.

5. All engineering students are required to complete a high-impact experience in order to graduate. The list of possible high-impact experiences is available in the BAEN advising office.

RECOMMENDED ELECTIVES

Environmental and Natural Resources Engineering Emphasis			Food Engineering Emphasis			Bioprocess Engineering Emphasis		Agricultural Engineering Emphasis (Machine Systems, Post Harvest Processing, Renewable Energy)		
Mathematics Electives										
Select 3 hours of Mathematics Electives										
MATH 417	STAT 211	MATH 304	CHEN 320	MATH 304	STAT 211	CHEN 320	MATH 417	MEEN 357	MATH 417	MATH 304
						MATH 304	STAT 211	STAT 211		
Technical Electives**										
Select 0 - 3 hours of science or engineering electives										
BESC 320	ESSM 444	RENr 405	BICH 303	NFSC 313	NFSC 410	BICH 303	BIOL 351	AGSM 473	ESSM 351	POSC 427
BESC 367	ESSM 459	SCSC 301	BICH 410	NFSC 326	NFSC 457	BICH 410	BIOL 451	ANSC 320	GEOG 390	RENr 405
BESC 401	GEOG 390	SCSC 405	NFSC 305	NFSC 327	NFSC 470			ANSC 412	POSC 309	SCSC 301
BESC 402	GEOG 410	SCSC 455	NFSC 307	NFSC 406	NFSC 487			BESC 357	POSC 326	SCSC 311
BESC 403			NFSC 312					MMET 307		
Biological and Agricultural Engineering Electives										
Select 6-12 hours from 400 level Biological and Agricultural Engineering Courses										
BAEN 460	BAEN 468	BAEN 477	BAEN 422			BAEN 417	BAEN 431	BAEN 412	BAEN 427	BAEN 477
BAEN 464	BAEN 469		BAEN 427			BAEN 422	BAEN 465	BAEN 414	BAEN 464	
BAEN 465	BAEN 471					BAEN 427	BAEN 471	BAEN 422	BAEN 465	
Engineering Electives **										
Select 0-3 hours from 300 or 400 level engineering courses:										
CVEN 301	CVEN 339	CVEN 455	BAEN 417	CHEN 451	SENG 310	CHEN 455	SENG 310	ENGR 333	MEEN 363	MEEN 442
CVEN 303	CVEN 402	CVEN 458	BAEN 431	CHEN 455	SENG 312	ENGR 333	SENG 321	ISEN 303	MEEN 364	MEEN 444
ENGR 333	CVEN 450	CVEN 462	BAEN 471	CHEN 460	SENG 321	ISEN 303		MEEN 360	MEEN 441	
CVEN 336			BAEN 465							

BAEN CLASSES AND REQUIREMENTS

BAEN 201 Analysis of Biological and Agricultural Engineering Problems: Grade of C or better in ENGR 102; grade of C or better in MATH 151; grade of C or better in CHEM 107 and CHEM 117; or CHEM 102 and CHEM 112, or CHEM 120.

BAEN 301 Biological and Agricultural Engineering Fundamentals I: Grade of C or better in MEEN 221 or concurrent enrollment.

BAEN 302 Biological and Agricultural Engineering Fundamentals II: Grade of C or better in BIOL 113 or BIOL 111; grade of C or better in CHEM 222 or CHEM 227 or concurrent enrollment.

BAEN 320 Engineering Thermodynamics: Grade of C or better in MEEN 221 or CVEN 221; grade of C or better in MATH 251 or MATH 253 or concurrent enrollment.

BAEN 340 Fluid Mechanics: Grade of C or better in MEEN 221; grade of C or better in BAEN 320 or concurrent enrollment.

BAEN 354 Engineering Properties of Biological Materials: Grade of C or better in MEEN 222/MSEN 222.

BAEN 365 Unit Operations for Biological and Agricultural Engineering: Grade of C or better in BAEN 340; grade of C or better in CVEN 305 or concurrent enrollment; junior or senior classification.

BAEN 366 Transport Processes in Biological Systems: Grade of C or better in BAEN 320, BAEN 340, and BAEN 365 or concurrent enrollment; grade of C or better in MATH 308; junior or senior classification.

BAEN 370 Measurement & Control of Biological Systems & Agricultural Processes: Grade of C or better in ECEN 215.

BAEN 375 Design Fundamentals for Agricultural Machines and Structures: Grade of C or better in CVEN 305.

BAEN 412 Hydraulic Power: Grade of C or better in BAEN 340 or equivalent, or approval of instructor.

BAEN 414 Renewable Energy Conversions: Grade of C or better in BAEN 320 or equivalent, or approval of instructor.

BAEN 417 Fundamentals of Nanoscale Biological Engineering: Senior classification in engineering OR approval of instructor.

BAEN 422 Unit Operations in Food Processing: Grade of C or better in CHEN 205 and CHEN 304, or CVEN 305.

BAEN 427 Engineering Aspects of Packaging: Junior or senior classification or approval of instructor.

BAEN 431 Fundamentals of Bio-separations: Grade of C or better in BAEN 302, BMEN 282, CHEN 282, or CHEN 482.

BAEN 460 Principals of Environmental Hydrology: Grade of C or better in BAEN 340.

BAEN 464 Irrigation and Drainage Engineering: Grade of C or better in BAEN 340.

BAEN 465 Design of Biological Waste Treatment System: Grade of C or better in BIOL 113 or BIOL 111 and CHEM 222 or CHEM 227, or BAEN 302.

BAEN 468 Soil and Water Conservation Engineering: Grade of C or better in BAEN 340.

BAEN 469 Water Quality Engineering: Grade of C or better in BAEN 340 or equivalent.

BAEN 471 Bioreactor Engineering: Grade of C or better in CHEN 282, CHEN 482, or BAEN 302; junior or senior classification or approval of instructor.

BAEN 477 Air Pollution Engineering: Grade of C or better in BAEN 340, CVEN 311/EVEN 311, or MEEN 344.

BAEN 479 Biological and Agricultural Engineering Design I: Grade of C or better in BAEN 340 and BAEN 365; grade of C or better in BAEN 366 or BAEN 370; Grade of C or better in BAEN 354 and BAEN 375 or concurrent enrollment.

BAEN 480 Biological and Agricultural Engineering Design II: Grade of C or better in BAEN 479.

BAEN 400-478, 485 OR 489 Seminar, Directed Studies, Internship, Research, Special Topics

BAEN Classes by Semester

While there is no guarantee for when a specific class will be offered, here's a quick summary of which semesters certain classes tend to be available!

COURSE TITLE	FALL	SPRING	SUMMER
BAEN 201	X		
BAEN 301		X	
BAEN 302	X		
BAEN 320	X	X	X-ONLINE
BAEN 340	X		
BAEN 354	X		
BAEN 365		X	
BAEN 366		X	
BAEN 370		X	
BAEN 375	X		
BAEN 412		X	
BAEN 414	X		
BAEN 417			
BAEN 422	X		
BAEN 427		X	
BAEN 431		X	
BAEN 460	X		
BAEN 464	X		
BAEN 465		X	X-BELGIUM Study Abroad ONLY
BAEN 468		X	
BAEN 469	X		
BAEN 471	X		
BAEN 477		X	X-BELGIUM Study Abroad ONLY
BAEN 479	X		
BAEN 480		X	
BAEN 491	X	X	X

ABOUT AGSM



WHO HIRES

Agricultural Systems Management



**Agricultural Systems
Management Majors?
*IN A WORD: ANYONE!***

**STUDENTS CAN APPLY FOR
ANY JOB REQUIRING A DEGREE
WITH EXPERIENCE IN AGRICULTURAL/FOOD SYSTEMS**

**John Deer, Holt Caterpillar, ASCO,
Blue Bell Creameries,
Cargill , Purina, Chick-Fil-A,
PepsiCo, M&M Mars, Kraft, HEB,
Arden Mills, Cargill,
First Investors Corp.,
Agrilogic, Oppenheimer Group,
Miner Corp., IDS Engineering,
Texas Cotton Ginners Assoc., ADM,
Holmes Foods, Texas Air System
and many more!**

**FOR MORE INFORMATION ON POTENTIAL CAREERS FOR MAJORS IN THE DEPARTMENT
OF BIOLOGICAL AND AGRICULTURAL ENGINEERING, PLEASE SEE THE BAEN WEBSITE
FACT SHEETS.**

Bachelor of Science in
AGRICULTURAL SYSTEMS
MANAGEMENT



Based on a survey taken in Fall 2019 by the Texas A&M University Career Center, students graduating with a degree in Agricultural Systems Management reported an average starting salary of \$46,625, with the highest starting salary reported at \$59,500.

AGSM Degree Plan - 2022

Agricultural Systems Management UNOFFICIAL DEGREE PLAN

STUDENT'S NAME: _____

Catalog 2022

STUDENT'S UIN: _____

DATE: _____

FACULTY ADVISOR'S NAME: _____

For students entering during the 2022-2023 university year. See undergraduate catalog for requirements and course descriptions. Foreign Language Requirements: 2 yrs. HS or 1 yr. College. Total credits required: 125

GR	COURSE	CR.	PREREQUISITE	GR	COURSE	CR.	PREREQUISITE
FRESHMAN							
_____	AGSM 125 (0-2)	1		_____	Free Elective ^{3,4}	3	
_____	AGSM 201 (2-2)	3		_____	MMET 105 (0-6)	2	
_____	ENGL 104 (3-0)	3		_____	MATH 142 (3-0)	3	
_____	MATH 140 (3-0)	3		_____	POLS 206 (3-0)	3	
_____	CHEM 119 (3-3)	4		_____	Lang, Phil, & Cult ^{1,2}	3	
		<u>14</u>		_____	ECON 202 (3-0)	<u>3</u>	
						<u>17</u>	
SOPHOMORE							
_____	ACCT 209 ³ (3-0)	3		_____	ACCT 210 (3-0)	3	ACCT 209
_____	AGSM 301 (3-0)	3	MATH 140 and MATH 142	_____	COMM 203 (3-0)	3	
_____	POLS 207 (3-0)	3		_____	ECON 203 (3-0)	3	ECON 202
_____	PHYS 201 (3-3)	4		_____	Creative Arts ^{1,2}	3	
_____	ENGL 210 (3-0)	<u>3</u>	ENGL 104	_____	AGEC 344 ⁴ (3-0)	or	U3/U4
		<u>16</u>		_____	MGMT 209 ³ (3-0)	<u>3</u>	
						<u>15</u>	
JUNIOR							
_____	AGEC 330 ⁴ (3-0)	or	ECON 202, ACCT 209; U3/U4	_____	AGSM 310 (2-2)	3	PHYS 201, AGSM 201, AGSM 301 ⁴
_____	FINC 409 ³ (3-0)	3	U3/U4	_____	AGSM 315 (2-2)	3	PHYS 201
_____	AGEC 340 ⁴ (3-0)	or	U3/U4	_____	AGSM 325 (2-2)	3	AGSM 201
_____	MGMT 309 ³ (3-0)	3	U3/U4	_____	AGSM 360 (3-0)	3	U3/U4
_____	STAT 302 (3-0)	or	MATH 141	_____	Life & Physical Sci	<u>3</u>	
_____	STAT 303 (3-0)	3	MATH 141			<u>15</u>	
_____	AGSM Directed Elective ⁶	3					
_____	Am. Hist. Elect ^{1,2}	<u>3</u>					
		<u>15</u>					
SENIOR							
_____	Tech. Elective ^{2,5}	3		_____	AGSM 440 (W) (2-	3	AGSM 439, COMM 203
_____	AGSM 403 (2-2)	3	AGSM 310, 315	_____	AGEC 314 ⁴ (3-0)	or	U3/U4
_____	AGSM 439 (W) (3-0)	3	ENGL 210, AGSM 301, 310, 325, 335*, 337*, 403*	_____	MKTG 409 ³ (3-0)	3	U3/U4
_____	AGSM 470 (2-2)	3	AGSM 325	_____	AGSM Directed Elective ⁶	3	
_____	AGSM 473 (3-0)	or	AGSM 301	_____	Am. Hist. Elect ^{1,2}	3	
_____	ECCB 351 (2-2)	<u>3</u>	U3/U4	_____	Tech. Elective ^{2,4,5}	<u>3</u>	
		<u>15</u>		_____	Tech. Elective ^{2,5}	<u>3</u>	
						<u>18</u>	

* Must Co-Register

Total Degree Hours 125

ICD²:CD²:

Notes: Grade Requirement: A grade of C or better is required for all Common Body Knowledge (CBK) courses (ACCT 209, AGSM 301, 439, 440, CHEM 119, ECON 202, MATH 140 & 142, and PHYS 201) or equivalents.

1. To be selected from the University Core Curriculum.

2. The 3 hours of international and cultural diversity and 3 hours of cultural discourse courses, as required for graduation, may be met in the curriculum. Students may select Language, Philosophy, and Culture, Creative Arts, Technical Electives, or American History Electives that also meet the ICD/CD requirement.

3. A minor in BUSI may be obtained by completing the noted courses, plus ISTM 209. Each of these courses must be completed with a "C" or better.

4. A minor in AGECE may be obtained by completing the noted courses, plus AGECE 105. Each of these courses must be completed with a "C" or better.

5. Technical electives must be selected in consultation with the student's advisor and from the current list of approved electives published by the department.

6. The two (2) AGSM Directed Electives must be chosen from AGSM 335, 337, 435, 477, or 489

AGSM CLASSES AND REQUIREMENTS

AGSM 105 The World Has a Drinking Problem - Global Water Scarcity

AGSM 201 Agricultural Energy and Power Systems

AGSM 301 Systems Analysis in Agriculture: Grade of C or better in MATH 140, MATH 141, and MATH 142 or MATH 151.

AGSM 310 Agricultural Machinery Management: AGSM 201; grade of C or better in AGSM 301 or concurrent enrollment.

AGSM 315 Food Process Engineering Technology: Grade of C or better in PHYS 201 or PHYS 218, or approval of instructor. Cross Listing: NFSC 315/AGSM 315.

AGSM 325 Agri-Industrial Applications of Electricity: AGSM 201; AGSM majors or minors only.

AGSM 335 Water and Soil Management: Grade of C or better in MATH 140 or MATH 141; grade of C or better in CHEM 101 and CHEM 111; or approval of instructor.

AGSM 337 Technology for Environmental and Natural Resource Engineering: Grade of C or better in MATH 140 or MATH 141 and MATH 142 or AGSM 301.

AGSM 360 Occupational Safety Management: Junior or senior classification.

AGSM 403 Processing and Storage of Agricultural Products: AGSM 310 and AGSM 315/NFSC 315; or approval of instructor.

AGSM 417 Food Process Engineering Technology II: AGSM 315/NFSC 315 or FSTC 315. Cross Listing: FSTC 417/AGSM 417.

AGSM 435 Irrigation Principles and Management: Grade of C or better in MATH 140 or MATH 141; grade of C or better in CHEM 101 and CHEM 111.

AGSM 439 Management of Agricultural Systems: Grade of C or better in AGSM 301; ANGL 210, AGSM 310, and AGSM 325; AGSM 335; AGSM 337, and AGSM 403 or concurrent enrollment; must be taken prior to AGSM 440; AGSM majors only.

AGSM 440 Management of Agricultural Systems II: COMM 203; grade of C or better in AGSM 439; should be taken last spring semester prior to graduation.

AGSM 470 Agricultural Electronics and Control: AGSM 325; or approval of instructor.

AGSM 473 Project Management for Agricultural Systems Technology: Grade of C or better in AGSM 301; senior classification.

AGSM Classes by Semester

While there is no guarantee for when a specific class will be offered, here's a quick summary of which semesters certain classes tend to be available!

COURSE TITLE	FALL	SPRING	SUMMER
AGSM 105	X	X	
AGSM 125	X		
AGSM 201	X	X	
AGSM 301	X	X	
AGSM 310		X	
AGSM 315	X	X	
AGSM 325		X	
AGSM 335	X		
AGSM 337	X		X-BELGIUM Study Abroad ONLY
AGSM 360		X	X
AGSM 403	X		
AGSM 417			
AGSM 435			
AGSM 439	X		
AGSM 440		X	
AGSM 470	X		
AGSM 473	X		
AGSM 477			X-BELGIUM Study Abroad ONLY
AGSM 489/437			X-MAY-MESTER



Use this list of departments to begin your search (and always be sure to check prerequisites and restrictions to make you are able to take the classes you are thinking about!)

- Agricultural Economics (AGEC)
- Agricultural Systems Management (AGSM)
- Animal Science (ANSC)
- Bioenvironmental Sciences (BESC)
- Communication (COMM)
- Economics (ECON)
- Engineering Design Graphics (ENDG)
- Entomology (ENTO)
- Ecology and Conservation Biology (ECCB)
- Food Science and Technology (FSTC)
- Geography (GEOG)
- Geology (GEOL)
- Horticulture Sciences (HORT)
- Poultry Science (POSC)
- Recreation, Park, and Tourism Sciences (RPTS)
- Rangeland, Wildlife, and Fisheries Management (RWFM)*
- Soil and Crop Sciences (SCSC)



Minor and internship
coursework can also be used
towards this category

Transfer students should check
with their advisor to see if they
have completed transfer courses
that can be accepted here

AGSM Technical Electives

Agricultural Economics	Prerequisites	Animal Science	Prerequisites
AGEC 314 Marketing Agricultural and Food Products	AGEC 105 or 3 hours of economics; and junior or senior classification	ANSC 303/NUTR 303 Principles of Animal Nutrition	ANSC 107 and ANSC 108; CHEM 222 or CHEM 227 or equivalent
AGEC 316 Building Customer Relations in AgriFood Selling		ANSC 307/FSTC 307 Meats	ANSC 107 and ANSC 108.
AGEC 325 Principles of Farm and Ranch Management	AGEC 105 or ECON 202; junior or senior non-agricultural economics, nonagribusiness majors only; and knowledge of Excel.	ANSC 317 Meat Selection, Evaluation and Grading	ANSC 107 and ANSC 108
AGEC 340 Agribusiness Management	AGEC 105 or 3 hours of economics; and junior or senior classification.	ANSC 318 Feeds and Feeding	ANSC 303/NUTR 303.
AGEC 344 Food and Agricultural Law	Junior or senior classification	ANSC 320 Animal Nutrition and Feeding	Junior or senior classification or approval of instructor; restricted to students in the college of agriculture and life sciences.
AGEC 350 Environmental and Natural Resource Economics	Junior or senior classification	ANSC 337 Meat Merchandising	ANSC 307/FSTC 307; junior or senior classification
AGEC 401 Global Agri-Industries and Markets: Study Abroad	AGEC 105 or 3 hours of economics; junior or senior classification or approval of department head.	ANSC 402 Exploring Animal Industries	Junior or senior classification
AGEC 402 Survey of International Agricultural Economics: Study Abroad	AGEC 105 or 3 hours of economics; junior or senior classification or approval of department head.	ANSC 412 Swine Production and Management	Junior or senior classification or approval of instructor
AGEC 408 Economics of Foreign Intervention, Conflict, & Development		ANSC 414 Sheep and Goat Production and Management	Junior or senior classification or approval of instructor
AGEC 413 Agricultural Cooperatives	AGEC 105; AGECE 314; and junior or senior classification.	ANSC 431 Equine Marketing and Development	Junior or senior classification or approval of instructor
AGEC 416 Sales Management and Advanced Techniques		ANSC 437 Marketing and Grading of Livestock and Meats	Junior or senior classification.
AGEC 422 Land Economics	AGEC 105 or 3 hours economics; and junior or senior classification	ANSC 439 Feedlot Risk Management	junior or senior classification or approval of instructor
AGEC 429 Agricultural Policy	AGEC 105, ECON 202 or ECON 203; ENGL 103 or ENGL 104; and junior or senior classification	ANSC 447 Advanced Meat Science and Technology	ANSC 307/FSTC 307; CHEM 222 or approval of instructor; junior or senior classification.
AGEC 452 International Trade and Agriculture	AGEC 105 or 3 hours of economics; and junior or senior classification	Bioenvironmental Sciences	Prerequisites
AGEC 453 International Agribusiness Marketing	AGEC 105 or 3 hours of economics; and junior or senior classification	BESC 314 Pathogens, the Environment and Society	Junior or senior classification
Agricultural Systems Management	Prerequisites	BESC 320 Water and the Bioenvironmental Sciences	Junior or senior classification.
AGSM 435 Irrigation Principles and Management	AGSM 335, AGSM 301, MATH 141	BESC 402 Microbial Processes in Bioremediation	One semester of organic chemistry
		BESC 403 Sampling and Environmental Monitoring	Junior or senior classification or approval of instructor

Communication	Prerequisites
COMM 315 Interpersonal Communication	Junior or senior classification.
COMM 320 Organizational Communication	Junior or senior classification.
COMM 330 Technology and Human Communication	
COMM 335 Intercultural Communication	Junior or senior classification.
GEOL 410 Hydrogeology	Junior or senior classification or approval of instructor
GEOL 420 Environmental Geology	GEOL 101 or GEOG 203; junior or senior classification or approval of instructor
Horticultural Sciences	Prerequisites
HORT 311/FSTC 311 Principles of Food Processing	FSTC 201; junior or senior classification or approval of department head or instructor
HORT 315 Issues in Horticulture	HORT 201 and HORT 202
Poultry Science	Prerequisites
POSC 308 Avian Anatomy and Physiology	BIOL 111; POSC 201; junior or senior classification or approval of instructor
POSC 326 Commercial Egg Industry	Junior or senior classification or approval of instructor
POSC 427 Animal Waste Management	Junior or senior classification or approval of instructor
Recreation, Parks, & Tourism Sciences	Prerequisites
RPTS 307 Methods of Environmental Interpretation	
RPTS 460/RENR 460 Nature, Values, and Protected Areas	RPTS 307 or RPTS 316; or 9 hours of credit in natural resource courses

Renewable Natural Resources	Prerequisites
RENR 375 Conservation of Natural Resources	
RENR 405 GIS for Environmental Problem Solving	RENR 201 or approval of instructor ESSM 351-Case Studies or other
RENR 410 Ecosystem Management	RENR 205, or approval of instructor
RENR 460/RPTS 460 Nature, Values, and Protected Areas	RPTS 307 or approval of instructor credit in natural resource courses
RENR 470 Environmental Impact Assessment	Senior classification or approval of instructor
Soil and Crop Sciences	Prerequisites
SCSC 301 Soil Science	Junior or senior classification or approval of instructor
SCSC 310 Soil Morphology and Interpretations	SCSC 301 or approval of instructor
SCSC 330 Social and Ethical Aspects of International Cropping Systems	Junior or senior classification or approval of instructor
SCSC 455 Environmental Soil and Water Science	SCSC 301 or approval of instructor
Wildlife and Fisheries Sciences	Prerequisites
WFSC 423 Aquaculture	
WFSC 428 Wetland Ecosystem Management	Junior or senior classification or approval of instructor

Terms and Definitions

Technical Elective: Requirement can be met by ANY class from the College of Agriculture and Life Sciences, coursework counting towards a minor, study abroad coursework, internship coursework, or transfer coursework. See the "Technical Electives List" under Agricultural Systems Management Degree Plan on pages 19-21.

AGSM Directed Elective: You may select from the following courses: AGSM 335, AGSM 337, AGSM 477, and AGSM 489. If you plan to study abroad with the AGSM study abroad program, DO NOT take AGSM 337 in the Fall or Spring Semester. The study abroad Belgium program will cover AGSM 337 and 477 during the summer.

General Elective: Any class other than KINE 198/199 (one hour of KINE 198/199 may be accepted towards this area but will need to check with an academic advisor). This is a good degree area to incorporate minor coursework, study abroad, or internship. This is typically covered by ISTM 209 or AGECE 105 for AGSM students.

Internships: A student can use an internship to meet degree requirements for General Elective or Technical Elective. In order to receive credit for an internship, must be approved with all paperwork completed PRIOR to the start of the internship. A max of three (3) hours of internship credit can be used towards degree requirements.

Study Abroad: may be used towards General Elective, Technical Elective, or AGSM Directed Elective. If participating in a study abroad experience through the BAEN department, study abroad can be used towards the AGSM Directed electives.

Common Course Substitutions

- The Marketing Elective can be met with AGEC 314 or MKTG 409
- The Management Elective can be met with AGEC 340 or MGMT 309
- The Business Law Elective can be met with AGEC 344 or MGMT 209
- The Financial Elective can be met with AGEC 330 or FINC 409
- The Statistics Elective can be met with STAT 302 or STAT 303

General Tips

- AGSM majors can easily double minor in either AGEC or BUSI & ENTR
- Highly recommend NOT leaving STAT 302/303 for your last semester
- Pay attention to the course prerequisite order (prerequisites may not be taken concurrently, so students will want to complete them in a timely manner in order to graduate by planned semester).
- core.tamu.edu displays the list of acceptable options for the core coursework categories
- The "Template" and "Pre-Req Check" tabs in the degree planner has a lot of helpful notes for arranging your coursework
- Want to avoid lines? The best time to visit with your academic advisor is in February and October!

Quick
Question?



Did you know
Scoates Hall was
built in 1932,
making the building
90 years old?

ENHANCING YOUR AGSM MAJOR WITH

Minors

Did you know that AGSM majors have 2 easily built-in minors based on required course work? Your course work is built so that you can easily pursue a minor in Agricultural Economics (AGEC) or Business (BUSI). You may also look into a minor in Facilities Management (FCMG) and Entrepreneurship (ENTR).

While you don't necessarily have to pick a minor, the minors listed above are easily added to your course work and will benefit you in your career. You can find the list of university approved minors here.

https://registrar.tamu.edu/Registrar/media/REGI_SpecPDFDocs/UniversityApprovedMinors.pdf

AGEC	BUSI	ENTR	FCMG
AGEC 105 AGEC 314 AGEC 330 AGEC 340 AGEC 300-400 Level Electives (6)	ACCT 209 FINC 409 ISTM 209 MGMT 209 MGMT 309 MKTG 409	AGEC 105 AGEC 315 ENGL 210 AGSM 439 AGSM 440	COSC 450* COSC 474* ACCT 209 MGMT 309 ARCH 421* GEOG 390
*Recommend AGEC 315 to compliment ENTR minor requirements			*Tech electives for AGSM
18 hours	18 hours	15 hours	18 hours

MINOR REQUIRED CLASSES AND PRE-REQUISITES

AGEC

AGEC 105 Introduction to Agricultural Economics

AGEC 314 Marketing Agricultural and Food Products: AGECE 105 or 3 hours of economics; junior or senior classification

AGEC 330 Financial Management in Agriculture: AGECE 105 or 3 hours of economics; ACCT 209 or ACCT 22; junior or senior classification

AGEC 340 Agribusiness Management: AGECE 105 or 3 hours of economics; junior or senior classification

AGEC 300-400 Electives (6)

BUSI

ACCT 209 Survey of Accounting Principles

FINC 409 Survey of Finance Principles: Junior or senior classification; for students other than business and agribusiness

ISTM 209 Business Information Systems Concepts: For students other than business and agribusiness majors

MGMT 209 Principles of Business Regulations and Law: Sophomore classification: for students other than business and agribusiness majors

MGMT 309 Survey of Management: Junior classification; for students other than business and agribusiness majors

MKTG 409 Principles of Marketing: Junior classification; for students other than business and agribusiness majors

ENTR

AGEC 105 Introduction to Agricultural Economics

AGEC 315 Food and Agricultural Sales: Junior or senior classification

ENGL 210 Technical and Professional Writing

AGSM 439 Management of Agricultural Systems I: Grade of C or better in AGSM 301; ENGL 210, AGSM 310, & AGSM 325; AGSM 335; AGSM 337 & AGSM 403 or concurrent enrollment; must be taken prior to AGSM 440; AGSM majors only

AGSM 440 Management of Agricultural Systems II: COMM 203; grade of C or better in AGSM 439; should be taken last spring semester prior to graduation

FCMG

COSC 450 Facility Management Principles and Practices: Admission to upper level in construction science or minor in facility management

COSC 474 Facility Management Internship: COSC 450; approval of internship faculty coordinator

ACCT 209 Survey of Accounting Principles

MGMT 309 Survey of Management: Junior classification; for students other than business and agribusiness majors

ARCH 421 Energy and Sustainable Architecture: Junior and senior classification or approval of instructor

GEOG 390 Principles of Geographic Information Systems: Junior and senior classification

SCHOLASTIC INFORMATION



AP COURSES MINIMUM SCORE LIST

Exam Name	Minimum Score	Credit	Equivalent Course
AP 2-D Art and Design	3	3	ARTS 103
AP 2-D Art and Design	4	6	ARTS 103, 111
AP 3-D Art and Design	3	3	ARTS 103
AP Art History	4	6	ARTS 149 and 150
AP Art History	3	3	ARTS 149
AP Biology	3	3	BIOL 113
AP Biology	4	8	BIOL 111, 112
AP Calculus AB	3	3	MATH 142
AP Calculus AB	4	4	MATH 151
AP Calculus BC	4	8	MATH 151, 152
AP Calculus BC	3	3	MATH 151
AP Chemistry	4	8	CHEM 119, 120
AP Chemistry	3	4	CHEM 119
AP Chinese Language and Culture	3	8	CHIN 101, 102
AP Chinese Language and Culture	4	14	CHIN 101, 102, 201, 202
AP Comparative Govern. and Politics	3	3	POLS 229
AP Computer Science A	3	4	CSCE 110
AP Computer Science Principles	3	4	CSCE 110
AP Drawing	4	6	ARTS 103, 111
AP Drawing	3	3	ARTS 103
AP English Language and Composition	4	6	ENGL 104, 241
AP English Language and Composition	3	3	ENGL 104
AP English Literature and Composition	4	6	ENGL 104, 203
AP English Literature and Composition	3	3	ENGL 104
AP Environmental Science	3	3	GEOS 105
AP European History	3	3	HIST 102
AP French Language and Culture	3	8	FREN 101, 102
AP French Language and Culture	4	14	FREN 101, 102, 201, 202
AP German Language and Culture	4	14	GERM 101, 102, 201, 202
AP German Language and Culture	3	8	GERM 101, 102
AP Human Geography	3	3	GEOG 201
AP Italian Language and Culture	3	8	ITAL 101, 102
AP Italian Language and Culture	4	14	ITAL 101, 102, 201, 202
AP Japanese Language and Culture	4	16	JAPN 101, 102, 201, 202

AP Japanese Language and Culture	3	8	JAPN 101, 102
AP Latin	3	8	CLAS 121 and 122
AP Latin	4	14	CLAS 121, 122, 221, 222
AP Macroeconomics	3	3	ECON 203
AP Microeconomics	3	3	ECON 202
AP Music Theory	3	3	MUSC 102
AP Physics 1	4	4	PHYS 201
AP Physics 1	3	4	PHYS 205
AP Physics 2	4	4	PHYS 202
AP Physics 2	3	3	PHYS 205
AP Physics C: Electricity and Magnetism	3	4	PHYS 207
AP Physics C: Mechanics	3	4	PHYS 206
AP Psychology	3	3	PSYC 107
AP Spanish Language and Culture	4	11	SPAN 101, 102, 201
AP Spanish Language and Culture	3	8	SPAN 101, 102
AP Spanish Language and Culture	5	14	SPAN 101, 102, 201, 202
AP Spanish Literature and Culture	5	6	SPAN 202, 320
AP Spanish Literature and Culture	3	3	SPAN 202
AP Statistics	3	3	STAT 201
AP United States Govern. and Politics	3	3	POLS 206
AP United States History	3	6	HIST 105, 106
AP World History: Modern	3	3	HIST 104

Department of Biological and Agricultural Engineering

SCHOLARSHIPS

The Department of Biological & Agricultural Engineering offers a number of scholarships to continuing students in our department (departmental scholarships are not offered to incoming students). The criteria for each scholarship offered by the Department of Biological & Agricultural Engineering varies widely: in addition to the overall GPR, financial need, extra-curricular activities, and leadership requirements, some scholarships consider professional career interest, residency in a particular county in the state, and participation in departmental clubs. See <https://baen.tamu.edu/academics/undergraduates/scholarships/> for a list of departmental scholarships and their unique requirements. Applications are available online at <https://scholarships.tamu.edu/> at the end of September or in early October. The deadline for submitting an application is February 1. You will need to select the “Continuing Students” link. For more information regarding departmental scholarships, students may contact the BAEN Undergraduate Office.

*Students who are interested in departmental scholarships should begin their club involvement within the Department of Biological & Agricultural Engineering

GPA

REQUIREMENTS HOW DO I KNOW WHAT GRADE I NEED?

BAEN MAJORS

AGSM MAJORS

3 GPA categories

Major

Term

Overall

At Texas A&M University, the minimum GPA to be in good academic standing is a 2.0. Therefore, students in the BAEN and AGSM majors will need to have at least a 2.0 or above in EVERY GPA category to remain in good academic standing. Except in the case of ECON 202 and any minor coursework (which requires a C or higher), a grade of D is considered passing; HOWEVER, you'll need to check on how receiving this grade would impact your GPA categories. So if you want to know "Can I make a D in my class and still be okay?" the answer is: it depends!

Overall GPA= Average of all classes taken at TAMU/TAMU Institutions

Term GPA= Average of all classes in a single semester (like Fall 2021, etc.)

Major GPA= Average of all classes with the "major" designation



Department of Biological & Agricultural Engineering Dismissal Policy

TAMU Student Rules Sections 12.1 through 12.1.4 define scholastic deficiency, and 12.2 through 12.2.4 provides university rules regarding students who are scholastically deficient.

Dismissal

A student will receive a Block/Dismissal letter and a hold will be put on the student's account (blocked from continued enrollment in the Department of Biological & Agricultural Engineering) when his/her cumulative GPR falls significantly below 2.0 (10+ grade points) overall or the semester GPR is 10+ grade points below 2.0, or if they fail to meet previous probation terms.

Depending on the circumstances of the block, student may be allowed to appeal the block/dismissal; however, there is NO guarantee that the appeal will be accepted. If a student has previously appealed a block/dismissal, then he/she is not allowed to appeal this decision again, resulting in **Permanent Block**. Appeals are carefully considered taking into account such circumstanced, but not limited to how great the deficiency is, a student's lengthy illness, a death or major illness of an immediate family member, absences due to legal proceedings, learning disabilities.

For an appeal to be considered, the student must provide an emailed letter stating the adverse circumstance(s) contributing to his/her poor academic performance. This must be sent to the appropriate program coordinator in the Department of Biological and Agricultural Engineering.

Scholastic Probation

A student will receive a Scholastic Probation letter when his/her overall or semester GPR falls below a 2.0 and the grade deficit is not greater than ten (10). Grade deficiencies of greater than ten (10) overall during any given semester will result in a Block/Dismissal letter.

Students receiving a Scholastic Probation letter must meet each of the following requirements:

- Make up the total grade point deficiency indicated in the Scholastic Probation letter
- Receive no grade below a "C"; I, W, and Q's can be counted as an "F" in terms of probation
- Enroll in appropriate courses for their major that will allow the student to make up his/her grade points
- Utilize the Academic Success Center, as outlined in their probation letter

PLEASE NOTE:

- Students who fail to meet ALL the requirements stipulated above will be blocked from further enrollment in the Department of Biological and Agricultural Engineering.
- Students are not allowed to continue on probation (nor will they be admitted to the program) if they have 2 or more consecutive semesters below 2.0.
- Students are allowed to appeal a Block/Dismissal ONE TIME; we believe in second chances, but not third, fourth, etc.
- To be able to graduate from Texas A&M University (TAMU), a student must have at least a 2.0 GPR overall, in major, and in CBK courses.

How to Calculate Grade point Deficits

The University uses variance points to determine whether students are placed on scholastic probation. Students' grades are weighed based on the number of credit hours of a class and the grade they earn. To remain in good academic standing, students must earn at least a 11 011 in variance points in both their semester and overall GPA. The more positive points students have, the less susceptible they will be to scholastic probation. Students on scholastic probation have negative variance points and must earn positive points the next fall or spring semester. Earning A's and B's will add points to the overall variance while earning D's and F's will remove points from the overall variance. Earning a "C" does not earn either positive or negative variance points, because a C is considered a 2.0 and a 2.0 GPA is considered "good" academic standing. The number listed on a student's probation letter (C+6, for example) is the number of positive points that must be earned.

Variance points earned per class based on semester credit hours (SCH)

Grade	1 Credit Hours	2 Credit Hours	3 Credit Hours	4 Credit Hours
A	+2	+4	+6	+8
B	+1	+2	+3	+4
C, S	0	0	0	0
D	-1	-2	-3	-4
F or U	-2	-4	-6	-8

Sample Student Schedule

Grade	SCH	GRADES	POINTS
MATH 151	4	C	0
PHYS 218	4	C	0
ENGR 111	2	B	2
POLS 207	3	D	-3
TOTAL	13	-4	1

The student in the table above would be on C+I probation because they are 1 grade point BELOW a 2.0 GPA. Students on semester probation must earn \geq 2.0 GPA the next semester.

Texas A&M University: University Dismissal Policy

- The Undergraduate Studies Office will filter and sort AOC Data for each college immediately following the posting of final grades each semester.
- Those students falling at or below the grade point threshold level listed below will be identified.

Classification	U1	U2	U3	U4
Threshold	-18	-18	-14	-10

- Undergraduate Studies will send a roster of those students in each college that fall at or below the dismissal threshold to the respective AOC Dean (Dr. Mary Bryk, College of Agriculture and Life Sciences).
- AOC Deans will have two business days to review their dismissal roster and identify any students who are eligible to be exempted from this dismissal action. Unless exemptions are noted and returned to Undergraduate Studies within the two-day review period, all students identified will receive dismissal letters from the Associate Provost for Undergraduate Studies.
- Dismissal letters will be sent to all identified students who have not been exempted by their college. Notification of dismissal will be sent via email to the students TAMU email account and a hard copy via regular mail to the student's permanent address.
- Registration holds will be placed on all dismissed students for a period of one calendar year.
- The current appeal process remains in place and applies to the university-level dismissal.
- Students will initiate their appeal with their college AOC Dean. If a student chooses to pursue an appeal beyond the college, Student Rule 57, <http://student-rules.tamu.edu/rule57> , will provide guidelines for the appeal.

Core Curriculum

University Core Curriculum requirements are associated with your catalog year! When looking at degree requirements, be sure to pull up your specific catalog. This may mean you need to click 'Archives' when pulling up the catalog.

<https://catalog.tamu.edu/>



Once you open your specific catalog, you will find the Core Curriculum by clicking on the following steps...

General Information > University Core Curriculum

In addition to the catalog, you can use <https://core.tamu.edu/> but you are responsible for confirming the core courses listed on this site by viewing the catalog at <https://catalog.tamu.edu/>

Dropping Courses

Q-Drops

1.18.4 Undergraduate students will normally be permitted four Q-drops during their undergraduate studies; however: State law prohibits students from having more than six dropped courses from all state institutions attended during their undergraduate career. Q-drops in one-hour courses will not count in the Texas A&M limit of four but will be included in the State-mandated limit of six dropped courses. If a lecture and companion lab are dropped at the same time, this will count as one Q-drop rather than two. Students should plan to submit Q-drops prior to noon on the day of the deadline in order to allow enough time for processing the request before the system closes at 5 pm.

For more information, visit: <https://student-rules.tamu.edu/rule01/>

WITHDRAWING

Please refer to <https://student-rules.tamu.edu/rule17/> for more information regarding withdrawals. The official withdrawal form can be found in Howdy under the “My Record” tab; however, please be sure to consult with an advisor before withdrawing from the University. The deadline to withdraw without documentation is the last day to Q-drop (see TAMU Academic Calendar). A student may be allowed to withdraw after the Q-drop deadline, but only in the event of unusual or extenuating circumstances.

Enhance Your Student Experience



Student Organization



American Society of Agricultural & Biological Engineers (ASABE)

The Texas A&M ASABE is dedicated to serving the premier pre-professional engineers in the fields of Biological & Agricultural Engineering and Agricultural & Systems Management with a means for developing leadership, making network connections, and socializing with others who share their passions.

[STUACT online ASABE](#)

AGSM Student Club

Dedicated to advancing the pre-professional development of its members. The club is involved in many activities throughout the year which help students gain valuable experience in professionalism, community service, and involvement. The AGSM club is a wonderful place to start building a strong professional background in the technical management field.

[STUACT online AGSM](#)



MORE DETAILS CAN BE FOUND AT: <https://studentactivities.tamu.edu/>

More on Student Organization



Texas A&M Aggie Pullers

Open to any student who attends TAMU. The Texas A&M Aggie Pullers has a wide variety of student participation, ranging from ag leadership, systems management, to engineering. Aggie Pullers requires a broad spectrum of intellectual minds and people who can think outside of the box to solve problems. Members during the year are appointed different positions that are gained by volunteering and taking leadership as the year goes on. There are several chances for members to enhance their abilities as leaders, managers, and designers that will serve them in their future careers at Texas A&M University. [STUACT online Aggies Pullers](#)

C.O.A.L.S. Student Council

Offers students the opportunity to become involved with the College of Agriculture and Life Sciences on a larger scale and serve as leaders on the council, college, university, state, and nation. Members of this organization act as liaisons between the student body and the Dean's office. COALS council provides for excellent professional development and looks great on a resume.

[COALS Student Council](#)



MORE DETAILS CAN BE FOUND AT: <https://studentactivities.tamu.edu/>

More on Student Organization



Alpha Epsilon

The national honor society of Biological & Agricultural Engineering. The object of the society is to recognize those individuals who exemplify the character, leadership, knowledge, and expertise of a professional in Biological and Agricultural Engineering and to promote the profession. Selection for the Texas Phi Chapter of Alpha Epsilon is limited to the top fourth junior class, the top third of the senior class, and graduate students who have completed 12 hours with a GPA of 3.3 or greater.



**BIOLOGICAL AND
AGRICULTURAL ENGINEERING**
TEXAS A & M UNIVERSITY

Biological and Agricultural Engineering

FAST TRACK

REQUIREMENTS

- Minimum requirement cumulative GPR of 3.3
- Junior classification.
- Intent to pursue graduate work in BAEN.
- Approval of the Associate Head for Academic Programs.
- Identification of major professor for those students pursuing a thesis-based graduate degree.

STEPS TO APPLY

- Make appointment to speak with Ashlea Schroeder during student's Junior year via Navigate to discuss options and requirements above
- Complete application for the BAEN Fast Track Program

ONCE ADMITED

- Complete Petition for Undergraduate Student to Enroll in Graduate Course
- Enroll in one graduate course each semester during the student's senior year.
- Apply to the Texas A&M University Department of Biological and Agricultural Engineering graduate program. For details on graduate school application and requirements

Contact Ashlea Schroeder, aschroeder@tamu.edu.

For more information [click here](#)



Department of Biological and Agricultural Engineering

Texas A&M University

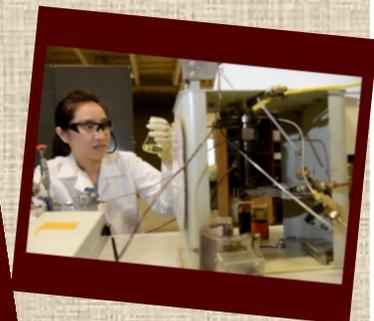
BIOLOGICAL AND AGRICULTURAL ENGINEERING

HONORS PROGRAM



The BAEN Honors program is offered to qualify, academically-talented, and highly motivated students. Students in this program have the opportunity to enrich their college experience through a scholastically challenging curriculum and an inquiry-based learning process. In addition, students are provided with opportunities to network with peers in the program and participate in events that will help them develop at a professional level.

For more information about the program (including course requirements), please visit: <https://engineering.tamu.edu/academics/eh/program/baen-track/requirements.html> or contact your academic advisor.



HONOR CHECKLIST

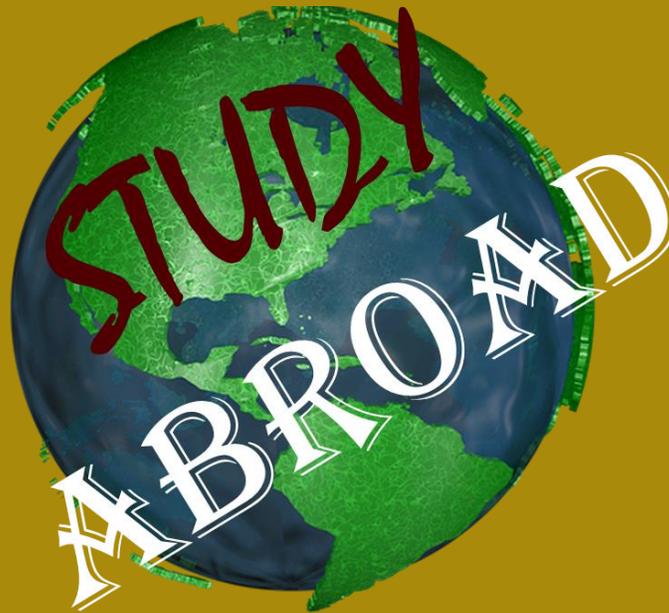
Hours	Course	Course name	Grade	Semester
	ENGR 102	ENGINEERING LAB I - COMPUTATION		
	ENGR 181	ENGINEERING HONORS SEMINAR I		
	ENGR 216	EXP. PHYSICS AND ENGINEERING LAB II - MECHANICS		
	ENGR 217	EXP. PHYSICS AND ENGINEERING LAB II – ELECTRICITY AND MAGNETISM		
	BAEN 201	ANALYSIS OF BIOLOGICAL AND AGRICULTURAL ENGR. PROBLEMS		
	BAEN 302	BIOLOGICAL AND AGRICULTURAL ENGR. FUNDAMENTAL II		
	BAEN 320	ENGINEERING THERMODYNAMICS		
	BAEN 340	FLUID MECHANICS		
	BAEN 354	ENGINEERING PROPERTIES OF BIOLOGICAL MATERIALS		
	BAEN 366	TRANSPORT PROCESS IN BIOLOGICAL SYSTEMS		
	BAEN 491	RESARCH - HONORS		

*Any course offered by the College of Science (e.g., biology, chemistry, mathematics, physics, or statistics) can be used to fulfill Engineering Honors requirements, if it is approved as part of the student's degree plan.

18 hours* of honors coursework, 12 hours must be ENGR or BAEN coursework

- 1 hour of ENGR 181 (H)
- 4-6 hours of BAEN 491 (H)
 - Complete thesis with URSP
- 3.5 overall; 3.25 in honors courses
 - No grade lower than a B in honors coursework
- No honor code violations

BAEN Department Study Abroad



WITH THE DEPARTMENT OF
BIOLOGICAL & AGRICULTURAL
ENGINEERING!

DID YOU KNOW?

The Department of Biological & Agricultural Engineering offers two study abroad trips every summer?

Belgium Study Abroad

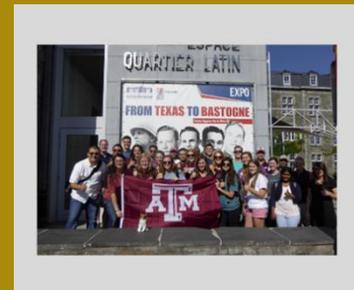
Katholieke Universiteit Leuven
Sponsored by Biological and Agricultural Engineering



A faculty lead summer program for Engineers and non- engineers focused on Environmental Science and Engineering.

What makes this program different from most study abroad programs is the freedom of traveling to any country in Europe on the weekends.

To learn more about the program click [here](#)





June 26-July 29, 2023



Global Engagement
Valencia, Spain

Study Abroad

VALENCIA, SPAIN 2023

**FOOD ENGINEERING AND TECHNOLOGY FACULTY-LED
SCIENCE AND ENGINEERING MAJORS**

A summer program for Biological & Agricultural Engineering (BAEN), Chemical Engineering (CHEN), Agricultural Systems management (AGSM), Food Science and Technology (FSTC) students.

PROGRAM HIGHLIGHTS

- Live and study in the exciting seaside city of Valencia, Spain!
- Courses taught at the prestigious Polytechnic University of Valencia (UPV)
- Attend lectures and practical sessions at the UPV facilities, visit local food processing industries, and participate in hands-on workshops
- Free weekends for independent travel

To learn more about the program click [here](#)





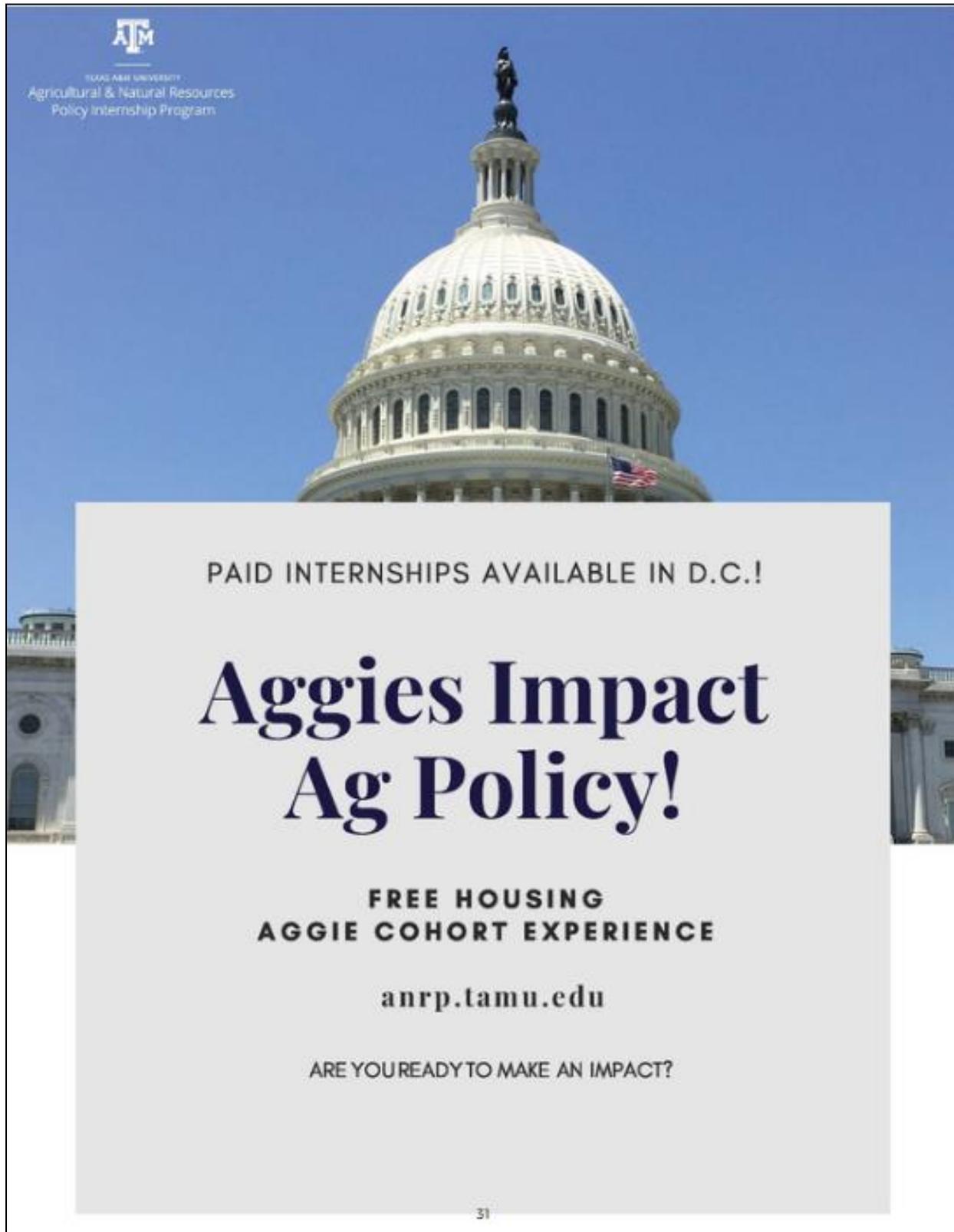
INDUSTRIAL INTERNSHIP

Industry internships allow students to work with a company to gain additional instruction in an intended career field. Although you will need to visit with an advisor to determine whether or not internship credit can be used in your degree plan, most students are able to complement their degree by completing an internship!

Overview: The AGSM Committee will approve up to 3 hours of technical elective academic credit for qualifying summer internships in the AGSM BS Degree at Texas A&M University. Students must adhere to the following requirements to earn credit for an internship as a technical elective towards the BS Degree.

- 1.) **Pre-approval:** The student must submit an application for credit to the AGSM Director for approval before the internship begins.
- 2.) **Credit Hour Determination:** No more than 3 hours of technical elective credit will be granted for a pre-approved internship.
- 3.) **Completion Requirements:**
 - Complete the internship in good standing with provider and the department.
 - Performance evaluation completed by the internship provider (supervisor).
 - Written report submitted to the AGSM Committee.
 - Oral presentation approved by the AGSM Committee to an AGSM class, meeting, or similar activity.

Police Internship Program

A photograph of the Texas State Capitol dome in Austin, Texas, under a clear blue sky. The dome is white with a gold top and a statue on top. An American flag is visible on the right side of the dome.

ATM
TEXAS A&M UNIVERSITY
Agricultural & Natural Resources
Policy Internship Program

PAID INTERNSHIPS AVAILABLE IN D.C.!

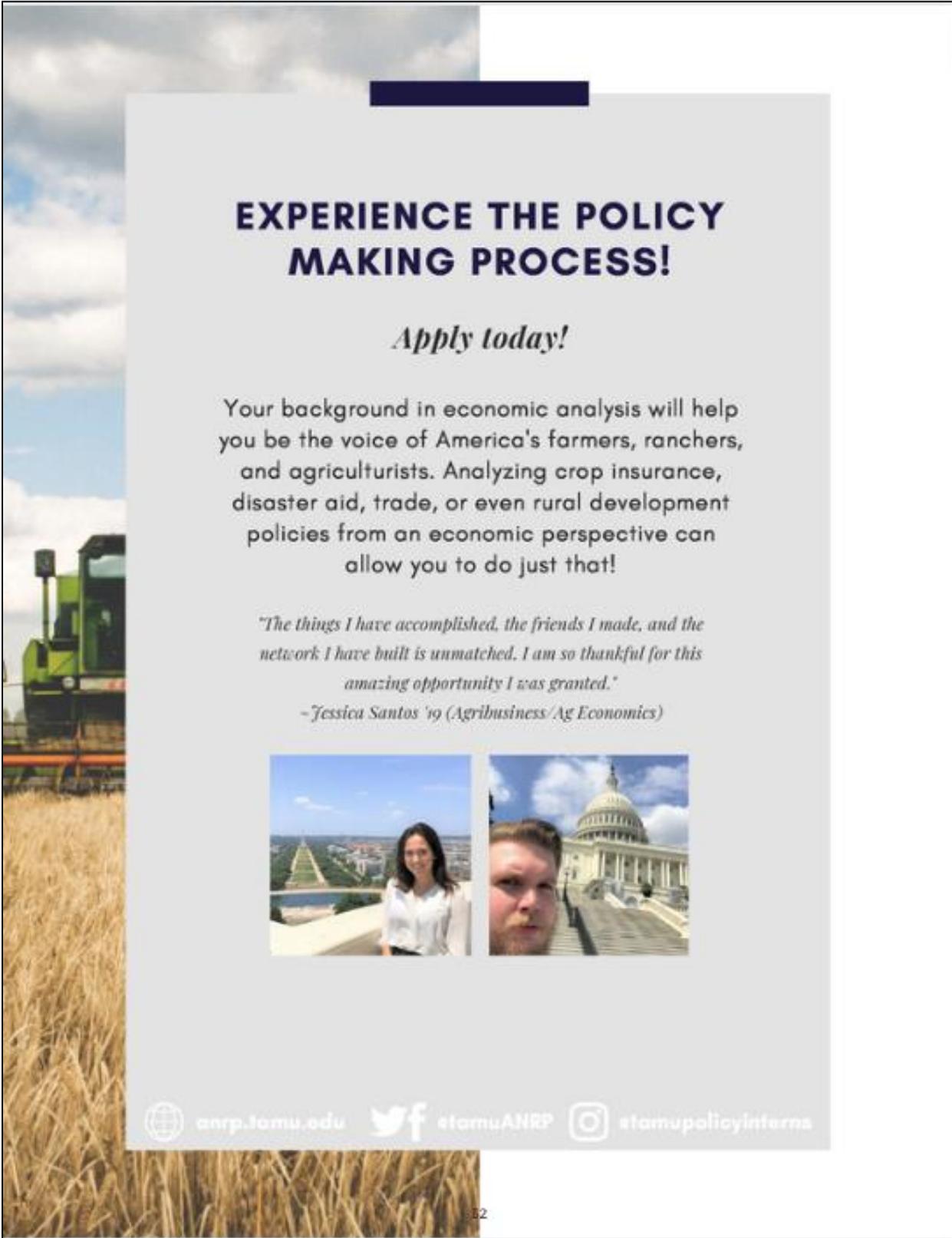
Aggies Impact Ag Policy!

**FREE HOUSING
AGGIE COHORT EXPERIENCE**

anrp.tamu.edu

ARE YOU READY TO MAKE AN IMPACT?

31



EXPERIENCE THE POLICY MAKING PROCESS!

Apply today!

Your background in economic analysis will help you be the voice of America's farmers, ranchers, and agriculturists. Analyzing crop insurance, disaster aid, trade, or even rural development policies from an economic perspective can allow you to do just that!

"The things I have accomplished, the friends I made, and the network I have built is unmatched. I am so thankful for this amazing opportunity I was granted."

- Jessica Santos '19 (Agribusiness/Ag Economics)

 anrp.tamu.edu
 [etamuANRP](https://twitter.com/etamuANRP)
 [etamupolicyinterns](https://www.instagram.com/etamupolicyinterns)

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TAMU PROCEDURES



Communication

TAMU Email

It is your responsibility to check your TAMU email multiple times a day!

Please use your official TAMU student email when contacting us so that we can verify that it is you. Read all emails we send you completely and carefully. We know that you receive numerous emails daily from different sources, but you are responsible for reading everything sent from us. We will send out emails regarding registration, job fairs, special events, and important announcements. You can go to gateway.tamu.edu to unsubscribe from email lists. You cannot unsubscribe from AGEC emails.

Log In > Email Settings > Change Email Subscriptions

Don't
forget!

ALWAYS INCLUDE YOUR UIN IF
CONTACTING AN ACADEMIC
ADVISOR





As a current student, you have access to academic, billing, and financial aid information with your Net ID and password in the Howdy portal.



Your My Profile section inside Howdy has many tools including (but not limited to):

- **Degree Evaluation**
- **Undergraduate Degree Planner**
- **Credit by Examination**

Credits By Examination

Advanced Placement and International Baccalaureate credit. Students should check with an advisor before accepting any AP/IB credit. All scores from all tests (SAT/ACT/AP/IB/MPE/etc.) that have been received at Texas A&M are available in the "Prior Education and Testing" menu of the "My Profile."

Transcripts

A listing of all courses on record at Texas A&M. This includes current coursework (in progress) and completed coursework. Students are able to print unofficial transcripts from the "Grades and Transcripts" section in the "My Record" tab. Students may also request official Texas A&M transcripts at the same location (there will be a fee associated with ordering an official transcript).

Registration Holds

Students are responsible for continuously checking for holds on their account. Holds can prevent you from registering for classes, so be sure to check your account on a regular basis!

How to check holds in Howdy:

(log in via your TAMU email)

<https://drive.google.com/file/d/1gePPhkKTe3dUhlM6gQ9T8fBOKOhvqfKS/view?usp=sharing>

You will have some holds to take care of early in your first semester.

Hint: Take care of these **before midterms!**

Bacterial Meningitis

You must submit your evidence of vaccination before your NSC. You cannot register for your first semester until you have completed this requirement!

<https://admissions.tamu.edu/meningitis.aspx>

High School Transcript

Be sure to submit your official high school transcript before the first week of classes!

Students that do not complete this will not be able to make changes to their schedule or register for second-semester classes.

Title IX Training (a.k.a. Haven Training)

Part of being able and ready to assist a fellow Aggie comes from an understanding of the issues surrounding behaviors associated with sexual harassment and sexual violence. As a result of this need for education, and a desire to work towards a safer community for all members, TAMU is requiring all incoming students to engage in our online education program called Haven. You are asked to complete this education in two parts: pre and post education. After an intersession of 30 days, you will receive an email notification to complete Part 2. You must complete this prior to preregistration for your second semester at TAMU.

<https://studentlife.tamu.edu/directorsoffice/titleixtraining/>

Degree Planner Hold

Degree planners take an average of 2-4 weeks to process, so always be sure to submit yours early so that your hold can be removed before it affects registering for classes!

The Undergraduate Degree Planner is a course planning tool designed to facilitate the timely completion of your degree at Texas A&M University and to assist in planning the courses required to fulfill your degree program requirements. To start using the Degree Planner, students can log into Howdy and select the "Degree Planner" icon at the top of the screen (the planner can also be accessed by clicking on the My Record tab and finding the Undergraduate Degree Planner channel on the right column).

All new students with 30+ credit hours are required to complete, submit, and get their Degree Planner approved prior to preregistration for their second TAMU semester.

All continuing students must edit, submit, and get their Degree Planner approved by September 30th of every year until graduation.

How to Complete Your Degree Planner:

Part 1: TAMU Degree Planner <https://youtu.be/-1A7qIKyFQE>

Part 2: AGEC & AGBU Degree Planner Help <https://youtu.be/jnafQ-SXdiA>

TIP: Remember, the degree planner tool in Howdy is an unofficial evaluation and may not correctly reflect your remaining coursework. After your planner is approved, always be sure to check your advisor's comments about the corrections that should be made!

Things to Know About

Registering for Classes

Here's a few tips to help you get the classes you need!

- Building a Registration Worksheet in the Registration portal in Howdy can help you save time when trying to register for classes. Students can select "Classes From Worksheet", "Add All", and then "Submit" to try to register for multiple classes when their registration time begins instead of trying to add classes one by one (note: be sure to select "View Sections" before adding a class to your worksheet!)
- When considering a class section, always click on the course title to check:
 - Prerequisites=classes that have to be completed before taking this course
 - Restrictions=what students can take this particular section (if you don't match the restrictions for the section you are looking at, check the restrictions on a different section of the class)
 - Instructor/Meeting Times: where the class is located (i.e. will you have enough time to make it back and forth between classes)
- Unless you are an honors student, avoid trying to register for sections with "HNR" in the title

Types of Registration Periods

- **Pre-Registration** = Early start on registration for currently enrolled students based on attributes/classification
- **Open Registration** = Any current student can make changes
- **Add-Drop Week** = First week of classes (see Academic Calendar for dates)

TIP: Remember to check your Pre-Registration time ticket in the My Profile tab in Howdy each semester so you don't miss your head-start on registering for classes!

Success Tools

To better understand your academic requirements for graduation, you should be using all the tools below.

Be sure to use them each semester!

Academic Calendar

This is a schedule of all of the events that occur in an academic year. This includes important deadlines!

<https://registrar.tamu.edu/Catalogs,-Policies-Procedures/Academic-Calendar>

Undergraduate Catalog

The Undergraduate and Graduate and Professional catalogs provide information about the academic programs of Texas A&M University to students, prospective students, faculty, and staff of the University. This includes information concerning admissions, academic regulations and requirements, services available to students, academic offerings, and a list of the administrative officers and faculty of the University.

<https://catalog.tamu.edu/>

Graduation

graduation.tamu.edu

- A minimum of 36 hours of 300-and/or 400-level course work must be successfully completed in residence at Texas A&M University. At least 12 of these 36 semester hours must be “in the major.”
- Students must have a minimum GPR of at least a 2.0 overall, in major and (for Agribusiness majors) in CBK course work.
- Students must have settled all financial obligations to the university and completed the graduation application in Howdy.
- Detailed requirements for graduation are listed in the Undergraduate Catalog and in the Texas A&M University Student Rules, Rule 14.
- For helpful information in preparing for graduation, see the “**Graduation Checklist**” included on the website listed above.
- To graduate with Latin Honors, a student must complete at least 60 passed hours at Texas A&M University or Texas A&M University at Galveston (excluding Credit by exam and Graduate Level courses) and meet the following GPR requirements:

Summa Cum Laude: 3.9 or above

Magna Cum Laude: 3.70 through 3.899

Cum Laude: 3.5 through 3.699



Aggie Ring Information

<https://www.aggienetwork.com/ring/>

- 90 total completed undergraduate or professional hours
- 45 completed institution undergraduate or professional hours
- 2.0 minimum cumulative GPR
- Must not be on academic probation, suspension, dismissal, expulsion, or on honor violation probation from Texas A&M University

Please visit the Aggie Ring website at <http://www.aggienetwork.com/ring/qualifications.aspx> or contact the Ring Office at 979-845-1050 for more information.

Helpful Links



BAEN HOME

[HTTP://BAEN.TAMU.EDU/](http://baen.tamu.edu/)

COLLEGE OF AGRICULTURE & LIFE SCIENCES

<https://aglifesciences.tamu.edu/>

HOWDY

[HTTP://HOWDY.TAMU.EDU/](http://howdy.tamu.edu/)



REGISTRAR

[HTTP://REGISTRAR.TAMU.EDU](http://registrar.tamu.edu)

SCHOLARSHPS & FINANCIAL AID

[HTTP://FINANCIALAID.TAMU.EDU/](http://financialaid.tamu.edu/)

STUDENT RULES

[HTTP://STUDENT-RULES.TAMU.EDU/](http://student-rules.tamu.edu/)



TAMU HOME

[HTTP://TAMU.EDU/](http://tamu.edu/)

TAMU ONLINE CATALOG

[HTTP://CATALOG.TAMU.EDU/](http://catalog.tamu.edu/)

ACADEMIC STUDENT SUCCESS CENTER

[HTTP://SUCCESSCENTER.TAMU.EDU/](http://successcenter.tamu.edu/)



CAREER CENTER

[HTTP://CAREERCENTER.TAMU.EDU/](http://careercenter.tamu.edu/)

TAMU OFFICE OF PROFESSIONAL SCHOOL

ADVISING

[HTTP://OPSA.TAMU.EDU/](http://opsa.tamu.edu/)

WRITING CENTER

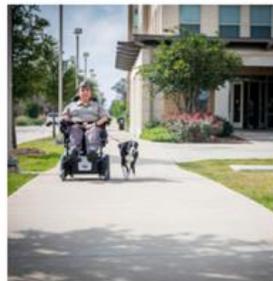
[HTTP://WRITINGCENTER.TAMU.EDU/](http://writingcenter.tamu.edu/)

ON CAMPUS RESOURCES

Full list is found at <https://studentaffairs.tamu.edu/students/>



COUNSELING & PSYCHOLOGICAL SERVICES
CAPS.TAMU.EDU
@TAMUCAPS
@TAMU_CAPS



DISABILITY RESOURCES



ACADEMIC SUCCESS CENTER
ASC.TAMU.EDU
@SUCCESSAMU



STUDENT ASSISTANCE SERVICES
STUDENTLIFE.TAMU.EDU/SAS
@TAMU_STUDENTLIFE



AGEC WRITING CENTER
AGLS 210J



MATH LEARNING CENTER
MLC.TAMU.EDU
@TAMUMATHHELP



UNIVERSITY WRITING CENTER
WRITINGCENTER.TAMU.EDU
@TAMUWC



UNIVERSITY LIBRARIES
LIBRARY.TAMU.EDU
@TAMULIBRARIES



MULTICULTURAL SERVICES

DMS.TAMU.EDU
@DMSTAMU



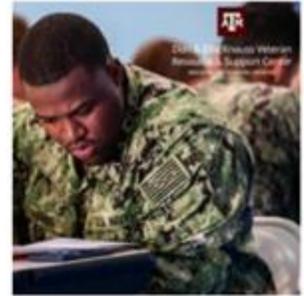
LGBTQ+ PRIDE CENTER

STUDENTLIFE.TAMU.EDU/LGBTQ
@TAMULGBTQ



WOMEN'S RESOURCE CENTER

STUDENTLIFE.TAMU.EDU/WRC
@TAMUWRC



VETERANS RESOURCE & SUPPORT CENTER

AGGIEVETERANS.TAMU.EDU
@VRSC.TAMU



INTERNATIONAL STUDENT SERVICES

ISS.TAMU.EDU
@TAMUISS



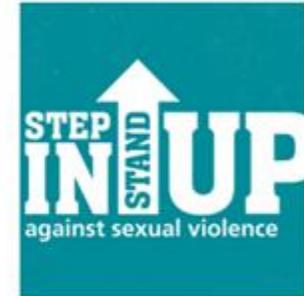
STUDENT HEALTH SERVICES

SHS.TAMU.EDU
@TAMU_SHS



CAREER CENTER

CAREERCENTER.TAMU.EDU
@HIREAGGIES



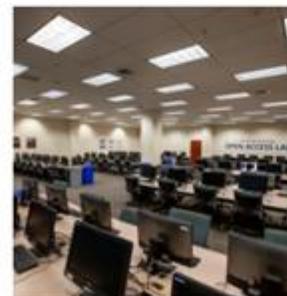
SEXUAL ASSAULT RESOURCES

TITLEIX.TAMU.EDU
STEPINSTANDUP.TAMU.EDU



SCHOLARSHIPS & FINANCIAL AID

FINANCIALAID.TAMU.EDU
@TAMUSFAID



DIVISION OF INFORMATION TECHNOLOGY

IT.TAMU.EDU
@TAMUIT



STUDENT BUSINESS SERVICES

SBS.TAMU.EDU



EDUCATION ABROAD

ABROAD.TAMU.EDU
@TAMUABROAD
@ABROADTAMU