TEXAS A&M UNIVERSITY

DEPARTMENT OF BIOLOGICAL AND AGRICULTURAL ENGINEERING

STUDENT HANDBOOK

FOR

BIOLOGICAL AND AGRICULTURAL ENGINEERING

&

AGRICULTURAL SYSTEMS MANAGEMENT

MAJORS

2017-2018; 2018-2019; 2019-2020; 2020-2021

http://baen.tamu.edu/academics/undergraduates/

979-845-3931

Departmental of Biological and Agricultural Engineering
Program Coordinators and Academic Advisors

The Department of Biological and Agricultural Engineering typically staffs two full-time academic advisors for the undergraduate and graduate programs, two program directors, and an associate department head for undergraduate studies. Currently, our undergraduate advising office is located in Scoates Hall (SCTS), suite 303. Appointments for the undergraduate advisor are made through NAVIGATE on the My Record tab in Howdy.

OFFICE HOURS, by appointment (email/Navigate)

Dr. Patricia Smith
Director of BAEN
Undergraduate Program
Associate Department Head
Professor

Mr. Russell McGee
Director of AGSM
Undergraduate Program
Lecturer

Mrs. Ashlea Schroeder
Academic Advisor IV
SCTS 303H
979-845-0609
aschroeder@tamu.edu (preferred contact)

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 information sources, for your successful navigation through this program. **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:

1. The *Undergraduate Catalog* (http://www.tamu.edu/admissions/catalogs/)
2. *University Student Rules* (http://student-rules.tamu.edu/)
3. *Schedule of Classes* http://howdy.tamu.edu
4. The BAEN undergraduate program web site http://baen.tamu.edu/academics/undergraduates/

NOTE: Regular (semester) meetings with your assigned faculty advisor are required.

OFFICIAL FORMS OF COMMUNICATION

Texas A&M University Student Rule 1.2 says, **"To avoid missing important communications from the university, it is the student's responsibility to keep the registrar informed of current local and permanent addresses. Communications mailed to either address of record, or to a student's official TAMU email account, will be deemed to be adequate notice."**

1. Keep your local and permanent addresses updated using your Howdy Portal.
2. Since your TAMU E-Mail account is an official form of communication you should check this account on a daily basis.
3. The Biological and Agricultural Engineering Undergraduate Advising Office also uses TAMU E-Mail for communicating important information with short deadlines or of an urgent nature such as notifying students at the end of a semester that they have been dismissed from this Department.
4. You can follow us on Facebook: Department of Biological & Agricultural Engineering, Texas A&M University
5. TAMU E-Mail Help Desk: helpdesk@tamu.edu or call 979-845-8300.

Undergraduate Degree Programs

Biological and Agricultural Engineering

BIOLOGICAL & AGRICULTURAL ENGINEERING
UNOFFICIAL DEGREE PLAN

STUDENT'S NAME: _____ Catalog 2017

STUDENT'S ID#: _____ DATE: _____

FACULTY ADVISOR'S NAME: _____

For students entering during the 2017-2018 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		___	BIOL 113 (3-3)	4	
___	ENGR 111 (1-3)	2	MATH 151*	___	PHYS 218 (3-3)	4	MATH 151
___	MATH 151 (3-2)	4		___	POLS 206 (3-0)	3	
___	CHEM 107 (3-0)	3		___	ENGR 112 (1-3)	2	ENGR 111, MATH 151
___	CHEM 117 (0-3)	1		___	MATH 152 (3-2)	4	MATH 151
		13				17	
			SOPHOMORE				
___	BAEN 201 (2-3)	3	ENGR 111, MATH 151, CHEM 107/117 or 102/112	___	CHEM 222 (3-0)	3	CHEM 107/117
___	MEEN 221 (2-2)	3	MATH 251*; PHYS 218	___	BAEN 301 (2-3)	3	MEEN 221*
___	MEEN 222 (3-0)	3	CHEM 107; PHYS 218	___	BAEN 320 (2-2)	3	MEEN 221; MATH 251*
___	MATH 251 (3-0)	3	MATH 152	___	CVEN 305 (3-0)	3	MEEN 221; MEEN 222*
___	PHYS 208 (3-3)	4	MATH 152; PHYS 218	___	ENGL 210 (3-0)	3	ENGL 104
		16		___	MATH 308 (3-0)	3	MATH 251
						18	
			JUNIOR				
___	BAEN 302 (2-3)	3	BIOL 113, CHEM 222*	___	BAEN 365 (2-3)	3	BAEN 340; CVEN 305*
___	BAEN 340 (3-0)	3	MEEN 221	___	BAEN 366 (3-0)	3	BAEN 320, 340, 365*; MATH 308
___	BAEN 354 (2-3)	3	MEEN 222	___	BAEN 370 (2-2)	3	ECEN 215
___	BAEN 375 (3-0)	3	CVEN 305	___	MATH Elect.[3]	3	
___	ECEN 215 (2-2)	3	MEEN 221; PHYS 208; MATH 308*	___	POLS 207 (3-0)	3	
		15		___	American Hist. El.[1,2]	3	
						18	
			SENIOR				
___	BAEN 479 (2-2)	3	BAEN 340, 365, (366 or 370), 354*, 375*	___	BAEN 480 (1-5)	3	BAEN 479
___	ENGR 482 (2-2)	3	U3 or U4	___	BAEN Elect.[3]	3	
___	BAEN Elect.[3]	3		___	Tech. Elect.[3]	3	
___	ENGR Elect.[3]	3		___	American Hist. El.[1,2]	3	
___	Soc. Sci. Elec.[1, 2]	3		___	Creative Arts Elec. [1, 2]	3	
		15				15	

* May Co-Register

Total Degree Hours 127

ICD[2]: _____

_____

ENGR X: _____

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 6 hours of international and cultural diversity courses, as required for graduation, may be met in the curriculum. Students may select Social and Behavioral Sciences, Creative Arts, or American History Electives that also meet the ICD requirement.
3. To be selected from departmental list of approved electives.

All Catalogs Before 2018

Courses that require a "C or better" in Biological and Agricultural Engineering

- BAEN (all required and elective courses with this acronym; ~14-18 classes)
- ENGL 104
- ENGR 111, 112
- MATH 151, 152, 251, and 308
- PHYS 208, 218
- CHEM 107/117
- MEEN 221 and MEEN/MSEN 222
- CVEN 305
- ECEN 215
- MATH elective (MATH 304, STAT 211, etc)
- ENGR/PHIL 482
- BIOL 113 or equivalent
- CHEM 222 or equivalent
- Any other engineering elective or technical elective (list of courses on recommended electives sheet)
- The degree evaluation is the official keeper of course requirements, and will list everything that requires a "C" or better

Courses that students could receive credit for in the BAEN program with a "D or better"

- POLS 206 and 207
- ENGL 210
- American HIST electives (105, 106, 226, etc)
- Social Science elective
- Creative Arts elective

BIOLOGICAL & AGRICULTURAL ENGINEERING
UNOFFICIAL DEGREE PLAN

STUDENT'S NAME: _____ Catalog 2018

STUDENT'S ID#: _____ DATE: _____

FACULTY ADVISOR'S NAME: _____

For students entering during the 2018-2019 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		___	BIOL 113 (3-3)	4	
___	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
		13				16	
			SOPHOMORE				
___	BAEN 201 (2-3)	3	ENGR 102, MATH 151, CHEM 107/117 or 102/112	___	CHEM 222 (3-0)	3	CHEM 107
___	MEEN 221 (2-2)	3	MATH 251*; PHYS 206	___	BAEN 301 (2-3)	3	MEEN 221*
___	MEEN 222 (3-0)	3	CHEM 107; PHYS 206	___	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*	___	ENGL 210 (3-0)	3	
___	ENGR 217 (1-3)	2	MATH 152, PHYS 206/216, PHYS 207*	___	MATH 308 (3-0)	3	MATH 251*
		17				18	
			JUNIOR				
___	BAEN 302 (2-3)	3	BIOL 113, 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	MEEN/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 208 or PHYS 207	___	POLS 207 (3-0)	3	
		15		___	American Hist. El.[1,2]	3	
						18	
			SENIOR				
___	BAEN 479 (3-0)	3	BAEN 340, 365, (366 or 370), 354*, 375*	___	BAEN 480 (0-6)	3	BAEN 479
___	ENGR 482 (2-2)	3	U3 or U4	___	BAEN Elect.[3]	3	
___	BAEN Elect.[3]	3		___	Tech. Elect.[3]	3	
___	ENGR Elect.[3]	3		___	American Hist. El.[1,2]	3	
___	Soc. Sci. Elec.[1, 2]	3		___	Creative Arts Elec. [1, 2]	3	
		15				15	

* Must Co-Register

Total Degree Hours 127

ICD[2]: _____

_____

ENGR X: _____

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 6 hours of international and cultural diversity courses, as required for graduation, may be met in the curriculum. Students may select Social and Behavioral Sciences, Creative Arts, or American History Electives that also meet the ICD requirement.
3. To be selected from departmental list of approved electives.

BIOLOGICAL & AGRICULTURAL ENGINEERING
UNOFFICIAL DEGREE PLAN

STUDENT'S NAME: _____ Catalog 2019

STUDENT'S ID#: _____ DATE: _____

FACULTY ADVISOR'S NAME: _____

For students entering during the 2019-2020 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
		13				15	
			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 113 (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*	___	MEEN 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*
		18				18	
			JUNIOR				
___	BAEN 302 (2-3)	3	BIOL 113, 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	MEEN/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 208 or PHYS 207	___	POLS 207 (3-0)	3	
		15		___	American Hist.	3	
						18	
			SENIOR				
___	BAEN 479 (3-0)	3	BAEN 340, 365, (366 or 370), 354*, 375*	___	BAEN 480 (0-6)	3	BAEN 479
___	Lang. Phil & Cult[1]	3		___	BAEN Elect.[3]	3	
___	BAEN Elect.[3]	3		___	Tech. Elect.[3]	3	
___	ENGR Elect.[3]	3		___	American Hist.	3	
___	Soc. Sci. Elec.[1, 2]	3		___	Creative Arts Elec.	3	
		15				15	

* Must Co-Register

Total Degree Hours 127

ICD/CD[2]: _____

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ENGR[IX]: _____

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 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 electives.

BIOLOGICAL & AGRICULTURAL ENGINEERING
UNOFFICIAL DEGREE PLAN

STUDENT'S NAME: _____ Catalog 2020

STUDENT'S ID#: _____ DATE: _____

FACULTY ADVISOR'S NAME: _____

For students entering during the 2020-2021 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				15	
		16					
			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*
		18				18	
			JUNIOR				
___	BAEN 3024 (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	MEEN/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 208 or PHYS	___	POLS 207 (3-0)	3	
		15				15	
			SENIOR				
___	BAEN 479 (3-0)	3	BAEN 340, 365, (366 or 370), 354*, 375*	___	BAEN 4804 (0-6)	3	BAEN 479
___	BAEN 3995	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				15	
		15					

* Must Co-Register

Total Degree Hours 127

ICD/CD[2]: _____

_____

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.

Courses that require a "C or better" in Biological and Agricultural Engineering

- BAEN (all courses with this acronym; ~14 classes)
- ENGL 104
- ENGR 102, 216, 217
- MATH 151, 152, 251, and 308
- PHYS 206 and 207
- CHEM 107/117
- BIOL 111
- CHEM 222
- MEEN 221
- MSEN 222
- CVEN 305
- ECEN 215
- MATH elective (MATH 304, STAT 211, etc)
- Any other engineering elective or technical elective (list of courses on recommended electives sheet)

Courses that students could receive credit for in the BAEN program with a "D or better"

- POLS 206 and 207
- ENGL 210
- American HIST electives (105, 106, 226, etc)
- Social Science elective
- Visual and Performing Arts elective
- Language Philosophy and Culture

Biological and Agricultural Engineering

(BAEN) Course Descriptions

201. Analysis of Biological and Agricultural Engineering Problems (3-2). Credit 3. Overview of Biological and Agricultural Engineering discipline through case studies and engineering design problems; introduction to engineering design utilizing computer programming, 3-D computer-aided modeling and 2-D engineering drawings; introduction to manufacturing processes. Prerequisites: ENGR 102; MATH 151; CHEM 107/117 or CHEM 102/112 or CHEM 120

301. Biological and Agricultural Engineering Fundamentals I. (3-2). Credit 3. Fundamental engineering concepts related to agricultural systems including the environment (soil, water, and air), plant and animal production systems and processing, and associated machines and facilities; application of techniques for data collection and analysis to problems in biological and agricultural engineering; design of experiments and communication of experimental results. Prerequisite: MEEN 221 or registration therein.

302. Biological and Agricultural Engineering Fundamentals II. (3-2). Credit 3. Fundamentals of microbiology and biochemistry as they apply to biological and agricultural engineering systems to produce useful products and/or benign wastes; topics include microbiology, chemistry of biomolecules, microbial metabolism, bioenergetics, kinetics, mass transfer, bioreactor design, bioprocesses, and downstream processing. Prerequisites: BIOL 111; CHEM 222 or registration therein.

320. Engineering Thermodynamics. (2-2). Credit 3. First and second laws of thermodynamics; properties of pure substances; analysis of closed and open systems; applications to steady-flow and non-flow processes; power and refrigeration cycles; psychrometrics. Prerequisites: MEEN 221, MATH 251 or registration therein; junior or senior classification.

340. Fluid Mechanics. (3-0). Credit 3. Fundamentals of fluid properties; basic conservation principles of momentum, energy and continuity; flow through closed conduits; open channel flow; principles of turbomachines and compressible flow. Prerequisites: MEEN 221; BAEN 320; junior classification.

354. Engineering Properties of Biological Materials. (2-3). Credit 3. Relationships between composition, structure and properties of biological materials; definition and measurement of mechanical, physical, thermal and other material properties; variability of properties; application of properties to engineering analysis and design of biological and agricultural processes and systems. Prerequisite: MSEN 222.

365. Unit Operations for Biological and Agricultural Engineering. (2-3). Credit 3. Theoretical and practical understanding of basic unit operations required to design processes and equipment in the agricultural, biological, environmental, and food industries, with unique constraints presented by biological and agricultural systems considered in design of all units. Prerequisites: BAEN 340; CVEN 305 or registration therein; junior or senior classification.

366. Transport Processes in Biological Systems. (3-0). Credit 3. Basic principles governing transport of energy and mass; application of these principles to analysis and design of processes involving biological, environmental and agricultural systems. Prerequisites: BAEN 320; BAEN 340; BAEN 365 or registration therein; MATH 308; junior or senior classification.

370. Measurement and Control of Biological Systems and Agricultural Processes. (2-2). Credit 3. Theory and application of sensors and techniques in the design of systems for automatic control in biological systems and agricultural production and processing; sensor operation; signal processing,; control techniques; automation and robotics. Prerequisite: ECEN 215.

375. Design Fundamentals for Agricultural Machines and Structures. (3-0). Credit 3. Applications of stress/strain relationships and failure theory to the design of agricultural machines and structures; structural properties of engineering materials; finite element analysis and computer aided engineering design. Prerequisite: CVEN 305.

479. Biological and Agricultural Engineering Design I. (3-0). Credit 3. Capstone design project selection from problems posed by biological and agricultural engineers in industrial practice; completion of project feasibility study and outline; design philosophy, teamwork and communication; economics; product liability and reliability; use of standards and codes; goal setting, professional development, and time management; project to be completed in BAEN 480. Prerequisites: BAEN 340, 365; BAEN 366 or 370 (must have one of the two); BAEN 354 and BAEN 375 can be taken concurrently with BAEN 479

480. Biological and Agricultural Engineering Design II. (0-6). Credit 3. Continuation of engineering design experience through team solution of design problem developed in BAEN 479; preparation of design solution under supervision of biological and agricultural engineering staff and clients; critical evaluation of results by students; staff and industrial consultants. Prerequisites: BAEN 479; senior classification; BAEN 366 or 370 (only one of the two) can be taken concurrently with BAEN 480

Elective Courses:

412. Hydraulic Power. (2-2). Credit 3. Hydraulic power systems; energy and power relationships; hydraulic fluid properties; frictional loses in pipelines; hydraulic pumps, cylinders, valves and motors; servo and proportional valves; circuit design and analysis; conductors, fittings and ancillary devices; maintenance of hydraulic systems; pneumatic components and circuits; electrical controls and fluid logic; electro-hydraulic systems. Prerequisites: BAEN 340 and 375.

414. Renewable Energy Conversions. (2-2). Credit 3. Energy/power systems through engineering and technical aspects of quantifying and designing the suitability of several types of renewable energy resources; new insights of vast resources that future engineers can harness to augment diminishing supplies of non-renewable energy. Prerequisite: BAEN 320, BAEN 366 or equivalent, or approval of instructor.

417. Fundamentals of Nanoscale Biological Engineering (3-0). Credit 3. Nanostructures, nanofabrication methods, instrumentation and applications pertinent to Biological, Food and Bioenergy systems; identification and utilization of key tools available for fabricating, manipulating and analysis of nanostructures used in biological engineering applications. Prerequisite: Senior classification in engineering or approval of instructor.

422. Unit Operations in Food Processing. (2-2). Credit 3. Design of food process engineering systems; basic concepts of rheology and physical properties of foods; fundamentals of heat and mass transfer and process control. Prerequisites: CHEN 205 and 304, or CVEN 305. Cross-listed with CHEN 422.

427. Engineering Aspects of Packaging. (3-0). Credit 3. Introduction to properties and engineering aspects of materials for use as components of a package and/or packaging system; principles of design and development of packages; evaluation of product-package-environment interaction mechanisms; testing methods; environmental concerns; regulations. Prerequisite: Senior classification or approval of instructor.

431. Fundamentals in Bioseparations. (3-0). Credit 3. Design principles and application of chemical engineering unit operations to the production of therapeutic and bioactive molecules. Prerequisite BAEN 302. Cross-listed with CHEN 431

460. Principles of Environmental Hydrology. (3-0). Credit 3. Hydrologic cycle; precipitation, evaporation, evapotranspiration, infiltration, percolation, runoff, streamflow; groundwater and surface water flow; transport of contaminants in surface water; measurement and analysis of hydrologic data for engineering design. Prerequisites: BAEN 340; senior classification.

464. Irrigation and Drainage Engineering. (2-2). Credit 3. Engineering principles and design of both surface and pressurized irrigation systems; introduction to the design of surface and subsurface drainage systems including crop water requirements, soil moisture, irrigation scheduling, surface irrigation, sprinkler irrigation, trickle irrigation, pumps, pipelines, irrigation canals, irrigation wells, and surface and subsurface drainage. Prerequisite: BAEN 340.

465. Design of Biological Waste Treatment Systems. (3-0). Credit 3. Management and treatment of high organic content wastes, with emphasis on agricultural and food processing wastes; engineering design of biological waste treatment processes; regulatory aspects affecting management of agricultural wastes. Prerequisites: BAEN 365; junior or senior classification.

468. Soil and Water Conservation Engineering. (2-2). Credit 3. Engineering principles of soil and water conservation; open channel flow principles, hydraulic grade stabilization, erosion control, storm water management, design of structures for floodwater routing, culvert design, design of waterways and agricultural reservoirs, stream bank protection, water quality assessment, groundwater flow, surface water modeling. Prerequisites: BAEN 340; CVEN 305.

469. Water Quality Engineering. (3-0). Credit 3. Nonpoint source pollution processes including transport mechanisms and contaminant fate; design of best management practices for abating nonpoint source pollution. Prerequisites: BAEN 340 or equivalent; CVEN 305.

471. Bioreactor Engineering (3-0). Credit 3. Fundamentals of microbial and enzyme kinetics; basic biochemical reaction theory and reactor systems; heterogeneous reactions and transport considerations in enzyme and cell reactors, and immobilized systems; bioreactor design considerations in bioprocessing. Prerequisite BAEN 302. Cross-listed with CHEN 471.

477. Air Pollution Engineering. (3-0). Credit 3. Design of air pollution abatement equipment and systems to include cyclones, bag filters and scrubbers; air pollution regulations; permitting; dispersion modeling; National Ambient Air Quality Standards. Prerequisite: CVEN 305 or equivalent. Cross-listed with MEEN 477.

Catalogs before 2018

College of Engineering (ENGR)

111. Foundations of Engineering I. (1-3). Credit 2. Introduction to the engineering profession, ethics, and disciplines; development of skills in teamwork, problem solving and design; other topics included, depending on the major, are: emphasis on computer applications and programming; visualization and CAD tools; introduction to electrical circuits, semiconductor devices, digital logic, communications and their applications in systems; Newton's laws, unit conversions, statistics, computers, Excel; basic graphics skills; visualization and orthographic drawings. Corequisite: MATH 151;

112. Foundations of Engineering II. (1-3). Credit 2. Continuation of ENGR 111. Topics include, depending on the major: emphasis on computer applications and programming and solids modeling using CAD tools or other software; fundamentals of engineering science. advanced graphic skills. Prerequisite: ENGR 111, MATH 151.

Mechanical Engineering (MEEN)

221. Statics and Particle Dynamics. (3-0). Credit 3. Application of the fundamental principles of Newtonian mechanics to the statics and dynamics of particles; equilibrium of trusses, frames, beams and other rigid bodies. Prerequisites: Admission to upper division in an engineering major; MATH 251 or MATH 253 or registration therein; PHYS 218.

***222. Materials Science. (3-0). Credit 3.** Mechanical, optical, thermal, magnetic and electrical properties of solids; differences in properties of metals, polymers, ceramics and composite materials in terms of bonding and crystal structure. Prerequisites: CHEM 102, or CHEM 104 and CHEM 114, or CHEM 107 and CHEM 117; PHYS 218.

***MSEN 222 is the same course as MEEN 222** – either are acceptable in the BAEN Curriculum

Civil Engineering (CVEN)

305. Mechanics of Materials. (3-0). Credit 3. Applications of conservation principles and stress/deformation relationships for continuous media to structural members; axially loaded members; thin-walled pressure vessels; torsional and flexural members; shear; moment; deflection of members; combined loadings; stability of columns; nonsymmetrical bending, shear center; indeterminate members; elastic foundations. Prerequisite: CVEN 221 or MEEN 221.

Electrical Engineering (ECEN)

215. Principles of Electrical Engineering. (2-2). Credit 3. Fundamentals of electric circuit analysis and introduction to electronics for engineering majors other than electrical and computer engineering. Prerequisites: PHYS 208; admission to upper level in an engineering major. Corequisite: MATH 308.

2018 catalog & newer

College of Engineering (ENGR)

102 Engineering Lab I – Computation Credits 2. 1 Lecture Hour. 3 Lab Hours.
Introduction to the design and development of computer applications for engineers; computation to enhance problem solving abilities; basic concepts of software design through the implementation and debugging of student-written programs; introduction to engineering majors, career exploration, engineering practice within realistic constraints, e.g. economic, environmental, ethical, health and safety, and sustainability; pathways to success in engineering.
Prerequisites: Grade of C or better in MATH 151, or concurrent enrollment; admission to the college of engineering.

216/PHYS 216 Experimental Physics and Engineering Lab II – Mechanics Credits 2. 1 Lecture Hour. 3 Lab Hours.
Description and application of laws of physical motion to the solution of science and engineering problems; using sensing, control and actuation for experimental verification of physics concepts while solving engineering problems.
Prerequisites: Grade of C or better in MATH 151 or MATH 171 or equivalent; grade of C or better in ENGR 102; grade of C or better and concurrent enrollment in PHYS 206.
Cross Listing: PHYS 216/ENGR 216.

217/PHYS 217 Experimental Physics and Engineering Lab III - Electricity and Magnetism Credits 2. 1 Lecture Hour. 3 Lab Hours.
Electromagnetism and electromechanical systems; use of sensing, control and actuation to demonstrate key physical relationships through the transducer relationships linking pressure, temperature and other physical stimuli to changes in electric and magnetic fields.
Prerequisites: Grade of C or better in MATH 152 or MATH 172, or equivalent; grade of C or better in PHYS 206 or equivalent; grade of C or better in PHYS 216/ENGR 216 or ENGR 216/PHYS 216; grade of C or better and concurrent enrollment in PHYS 207.
Cross Listing: PHYS 217/ENGR 217.

Mechanical Engineering (MEEN)

221 Statics and Particle Dynamics Credits 3. 3 Lecture Hours.
Application of the fundamental principles of Newtonian mechanics to the statics and dynamics of particles; equilibrium of trusses, frames, beams and other rigid bodies.
Prerequisites: For non-mechanical engineering majors; admission to an engineering major; Grade of C or better in PHYS 206 or PHYS 218; grade of C or better in MATH 251 or MATH 253, or concurrent enrollment.

222 Materials Science Credits 3. 3 Lecture Hours. → Now only MSEN 222
Mechanical, optical, thermal, magnetic and electrical properties of solids; differences in properties of metals, polymers, ceramics and composite materials in terms of bonding and crystal structure.
Prerequisites: Grade of C or better in CHEM 102 and CHEM 112, or CHEM 104 and CHEM 114, or CHEM 107 and CHEM 117; grade of C or better in PHYS 206 or PHYS 218.
Cross Listing: MSEN 222/MEEN 222.

Civil Engineering (CVEN)

305 Mechanics of Materials Credits 3. 3 Lecture Hours.
Applications of conservation principles and stress/deformation relationships for continuous media to structural members; axially loaded members; thin-walled pressure vessels; torsional and flexural members; shear; moment; deflection of members; combined loadings; stability of columns; nonsymmetrical bending, shear center; indeterminate members; elastic foundations.
Prerequisites: Grade of C or better in CVEN 221, MEEN 221 or MEEN 225.

Electrical Engineering (ECEN)

ECEN 215 Principles of Electrical Engineering Credits 3. 2 Lecture Hours. 2 Lab Hours.
Fundamentals of electric circuit analysis and introduction to electronics for engineering majors other than electrical and computer engineering.
Prerequisites: Grade of C or better in MATH 251 and PHYS 207 or PHYS 208.

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

NOTES:

TRIAL SCHEDULE

MWF	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	TR
8:00						8:00
9:10						9:35
10:20						
11:30						11:10
12:40						12:45
1:50						
3:00						2:20
4:10						3:55
5:45						
						5:30

TRIAL SCHEDULE

MWF	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	TR
8:00						8:00
9:10						9:35
10:20						
11:30						11:10
12:40						12:45
1:50						
3:00						2:20
4:10						3:55
5:45						
						5:30

Agricultural Systems Management

Agricultural Systems Management
UNOFFICIAL DEGREE PLAN

STUDENT'S NAME: _____ Catalog 2017

STUDENT'S UIN: _____ DATE: _____

FACULTY ADVISOR'S NAME: _____

For students entering during the 2017-2018 university year. See undergraduate catalog for requirements and course descriptions.
Foreign Language Requirements: 2 yrs. HS or 1 yr. College. Total credits required: 124

GR	COURSE	CR.	PREREQUISITE	GR	COURSE	CR	PREREQUISITE
				FRESHMAN			
___	AGSM 201 (2-2)	3		___	**ISTM 209**[3] (3-0)	3	
___	AGSM 125 (0-2)	1		___	MMET 105 (0-6)	2	
___	ENGL 104 (3-0)	3		___	MATH 142 (3-0)	3	
___	MATH 141 (3-0)	3		___	POLS 206 (3-0)	3	
___	CHEM 101(3-0)	3		___	Lang, Phil, & Cult[1,2]	3	
___	CHEM 111 (0-3)	1		___	ECON 202 (3-0)	3	
		14				17	
				SOPHOMORE			
___	**ACCT 209**[3] (3-0)	3		___	ACCT 210 (3-0)	3	ACCT 209
___	AGSM 301 (3-0)	3	MATH 141 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	3	
___	ENGL 210 (3-0)	3	ENGL 104	___	AGEC 344 (3-0)	**or**	U3/U4
		16		___	**MGMT 209**[3] (3-0)	**or**	
				___	MGMT 212 (3-0)	3	
						15	
				JUNIOR			
___	AGEC 330 (3-0)	**or**	ECON 202, ACCT 209; U3/U4	___	AGSM 310 (2-2)	3	AGSM 301; AGEC 330
___	**FINC 409**[3] (3-0)	3	U3/U4	___	AGSM 315 (2-2)	3	PHYS 201
___	AGEC 340 (3-0)	**or**	U3/U4	___	AGSM 325 (2-2)	3	
___	**MGMT 309**[3] (3-0)	3	U3/U4	___	AGSM 360 (3-0)	3	
___	AGSM 335 (3-0)	3	AGSM 301	___	Life & Physical Sci	3	
___	STAT 302 (3-0)	**or**	MATH 141			15	
___	STAT 303 (3-0)	3	MATH 141				
___	Am. Hist. Elec[1,2] (3-	3					
		15					
				SENIOR			
___	AGEC 315 (3-0)	**or**	U3/U4	___	AGSM 440 **(W)** (1-5)	3	AGSM 335, 337, 403, 439, & 470
___	Tech. Elective[2,4]	3		___	**MKTG 409**[3] (3-0)	**or**	U3/U4
___	AGSM 337 (3-0)	3	AGSM 301	___	AGEC 314 (3-0)	3	U3/U4
___	AGSM 403 (2-2)	3	AGSM 310, 315	___	AGSM 473 (3-0)	3	AGSM 301
___	AGSM 439 **(W)** (1-2)	3	AGSM 301, 315, 325, and 360	___	Tech. Elective[2,4]	3	
___	AGSM 470 (2-2)	3	AGSM 325	___	Tech. Elective[2,4]	3	
___	Am. Hist. Elect[1,2] (3-	3				15	
		18					

Total Degree Hours 125

ICD[2]:

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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 101/111, ECON 202, MATH 141 & 142, and PHYS 201) or equivalents.

1. To be selected from the University Core Curriculum.
2. The 6 hours of international and cultural diversity 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 requirement.
3. A minor in business may be obtained by completing the noted courses. Each of these courses must be completed with a "C" or better
4. Technical electives must be selected in consultation with the student's advisor and from the current list of approved electives published by the department.

Agricultural Systems Management
UNOFFICIAL DEGREE PLAN

STUDENT'S NAME: _____ Catalog 2018

STUDENT'S UIN: _____ DATE: _____

FACULTY ADVISOR'S NAME: _____

For students entering during the 2018-2019 university year. See undergraduate catalog for requirements and course descriptions. Foreign Language Requirements: 2 yrs. HS or 1 yr. College. Total credits required: 124

GR	COURSE	CR.	PREREQUISITE	GR	COURSE	CR	PREREQUISITE
			FRESHMAN				
___	AGSM 201 (2-2)	3		___	**ISTM 209**[3] (3-0)	3	
___	AGSM 125 (0-2)	1		___	MMET 105 (0-6)	2	
___	ENGL 104 (3-0)	3		___	MATH 142 (3-0)	3	
___	MATH 141 (3-0)	3		___	POLS 206 (3-0)	3	
___	CHEM 101(3-0)	3		___	Lang, Phil, & Cult[1,2]	3	
___	CHEM 111 (0-3)	1		___	ECON 202 (3-0)	3	
		14				17	
			SOPHOMORE				
___	**ACCT 209**[3] (3-0)	3		___	ACCT 210 (3-0)	3	ACCT 209
___	AGSM 301 (3-0)	3	MATH 141 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	3	
___	ENGL 210 (3-0)	3	ENGL 104	___	AGEC 344 (3-0)	**or**	U3/U4
		16		___	**MGMT 209**[3] (3-0)	**or**	
				___	MGMT 212 (3-0)	3	
						15	
			JUNIOR				
___	AGEC 330 (3-0)	**or**	ECON 202, ACCT 209; U3/U4	___	AGSM 310 (2-2)	3	AGSM 201, AGSM 301*
___	**FINC 409**[3] (3-0)	3	U3/U4	___	AGSM 315 (2-2)	3	PHYS 201
___	AGEC 340 (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
___	AGSM 335 (3-0)	3	MATH 141, CHEM 101/111	___	Life & Physical Sci	3	
___	STAT 302 (3-0)	**or**	MATH 141			15	
___	STAT 303 (3-0)	3	MATH 141				
___	Am. Hist. Elec[1,2] (3-	3					
		15					
			SENIOR				
___	AGEC 315 (3-0)	**or**	U3/U4	___	AGSM 440 **(W)** (1-5)	3	AGSM 439, COMM 203
___	Tech. Elective[2,4]	3		___	**MKTG 409**[3] (3-0)	**or**	U3/U4
___	AGSM 337 (3-0)	3	MATH 141 and 142 or AGSM 301	___	AGEC 314 (3-0)	3	U3/U4
___	AGSM 403 (2-2)	3	AGSM 310, 315	___	AGSM 473 (3-0)	3	AGSM 301
___	AGSM 439 **(W)** (1-2)	3	ENGL 210, AGSM 301, 310, 325, 335*, 337*, 403*	___	Tech. Elective[2,4]	3	
___	AGSM 470 (2-2)	3	AGSM 325	___	Tech. Elective[2,4]	3	
___	Am. Hist. Elect[1,2] (3-	3				15	
		18					

* Must Co-Register

Total Degree Hours 125

ICD[2]:

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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 101/111, ECON 202, MATH 141 & 142, and PHYS 201) or equivalents.

1. To be selected from the University Core Curriculum.
2. The 6 hours of international and cultural diversity 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 requirement.
3. A minor in business may be obtained by completing the noted courses. Each of these courses must be completed with a "C" or better
4. Technical electives must be selected in consultation with the student's advisor and from the current list of approved electives published by the department.

Agricultural Systems Management
UNOFFICIAL DEGREE PLAN

STUDENT'S NAME: _____ Catalog 2019

STUDENT'S UIN: _____ DATE: _____

FACULTY ADVISOR'S NAME: _____

For students entering during the 2019-2020 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	
		14		___	ECON 202 (3-0)	3	
						17	
				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)	3	ENGL 104	___	AGEC 344[4] (3-0)	**or**	U3/U4
		16		___	**MGMT 209**[3] (3-0)	**or**	
				___	MGMT 212 (3-0)	3	
						15	
				JUNIOR			
___	AGEC 330[4] (3-0)	**or**	ECON 202, ACCT 209; U3/U4	___	AGSM 310 (2-2)	3	PHYS 201, AGSM 201, AGSM 301*
___	**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	3	
___	STAT 303 (3-0)	3	MATH 141			15	
___	AGSM Directed Elective[6]	3					
___	Am. Hist. Elect[1,2]	3					
		15					
				SENIOR			
___	AGEC 315[4] (3-0)	**or**	U3/U4	___	AGSM 440 **(W)** (2-3)	3	AGSM 439, COMM 203
___	Tech. Elective[2,5]	3		___	AGEC 314[4] (3-0)	**or**	U3/U4
___	AGSM 403 (2-2)	3	AGSM 310, 315	___	**MKTG 409**[3] (3-0)	3	U3/U4
___	AGSM 439 **(W)** (3-0)	3	ENGL 210, AGSM 301, 310, 325, 335*, 337*, 403*	___	AGSM Directed Elective[6]	3	
___	AGSM 470 (2-2)	3	AGSM 325	___	Am. Hist. Elect[1,2]	3	
___	AGSM 473 (3-0)	**or**	AGSM 301	___	Tech. Elective[2,4,5]	3	
___	ESSM351/RENR 405	3	U3/U4	___	Tech. Elective[2,5]	3	
		15				18	

* Must Co-Register

Total Degree Hours 125

ICD[2]:

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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 140/141 & 142/151, 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 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 AGEC may be obtained by completed the noted courses, plus AGEC 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. AGSM Directed Electives must be chosen from a specific list approved by the department.

Agricultural Systems Management
UNOFFICIAL DEGREE PLAN

STUDENT'S NAME: _____ Catalog 2020

STUDENT'S UIN: _____ DATE: _____

FACULTY ADVISOR'S NAME: _____

For students entering during the 2020-2021 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	
		14		___	ECON 202 (3-0)	3	
						17	
				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)	3	ENGL 104	___	AGEC 344 [4] (3-0)	**or**	U3/U4
		16		___	**MGMT 209** [3] (3-0)	3	
						15	
				JUNIOR			
___	AGEC 330 [4] (3-0)	**or**	ECON 202, ACCT 209; U3/U4	___	AGSM 310 (2-2)	3	PHYS 201, AGSM 201, AGSM 301*
___	**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	3	
___	STAT 303 (3-0)	3	MATH 141			15	
___	AGSM Directed Elective [6]	3					
___	Am. Hist. Elect [1,2]	3					
		15					
				SENIOR			
___	AGEC 315 [4] (3-0)	**or**	U3/U4	___	AGSM 440 **(W)** (2-3)	3	AGSM 439, COMM 203
___	Tech. Elective [2,5]	3		___	AGEC 314 [4] (3-0)	**or**	U3/U4
___	AGSM 403 (2-2)	3	AGSM 310, 315	___	**MKTG 409** [3] (3-0)	3	U3/U4
___	AGSM 439 **(W)** (3-0)	3	ENGL 210, AGSM 301, 310, 325, 335*, 337*, 403*	___	AGSM Directed Elective [6]	3	
___	AGSM 470 (2-2)	3	AGSM 325	___	Am. Hist. Elect [1,2]	3	
___	AGSM 473 (3-0)	**or**	AGSM 301	___	Tech. Elective [2,4,5]	3	
___	ESSM351/RENR 405	3	U3/U4	___	Tech. Elective [2,5]	3	
		15				18	

* Must Co-Register

Total Degree Hours 125

ICD [2]:

_____

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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 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 AGEC may be obtained by completed the noted courses, plus AGEC 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, or 477

Agricultural Systems Management (AGSM) Course Descriptions

125 Introduction to Agricultural Systems Management Credit 1. 2 Lab Hours.
Introduction to technical management of agricultural systems using management projects presented by agricultural managers from industry; problem definition, information search, idea generation and development of management solutions.
Prerequisite: Freshman or sophomore classification or approval of instructor; majors only.

201 Agricultural Energy and Power Systems Credits 3. 2 Lecture Hours. 2 Lab Hours.
(AGRI 2301) Agricultural Energy and Power Systems. A study of the types of power and energy sources used in agricultural equipment and systems; management considerations for selecting, operating and maintaining internal combustion engines, electric equipment and motors, and renewables as power sources.

301 Systems Analysis in Agriculture Credits 3. 3 Lecture Hours.
Operations research and systems theory applied to management problems in food and agricultural industries; linear programming, queuing theory, simulation and critical path method; provides the knowledge and computer skills to better manage resources for the evolving agricultural industries.
Prerequisites: Grade of C or better in MATH 140 or MATH 141 and MATH 142 or MATH 151.

310 Agricultural Machinery Management Credits 3. 2 Lecture Hours. 2 Lab Hours.
Selection of a matched complement of power units and machines for farming operations; consider constraints such as crops, season, weather, personnel and capital; apply systems techniques such as linear programming, optimization, queuing theory and inventory models; utilize available software programs and learn to develop electronic spreadsheets and other customized software.
Prerequisites: AGSM 201; grade of C or better in AGSM 301 or concurrent enrollment.

315 Food Process Engineering Technology Credits 3. 2 Lecture Hours. 2 Lab Hours.
Elementary mechanics, physical and thermal properties of food and processing materials, heat transfer, mass and energy balances, psychrometrics (properties of air), insulation.
Prerequisites: Grade of C or better in PHYS 201 or PHYS 218, or approval of instructor.
Cross Listing: NFSC 315/AGSM 315.

325 Agri-Industrial Applications of Electricity Credits 3. 2 Lecture Hours. 2 Lab Hours.
Elements of electric current generation and transmission, applications of electric heating, lighting and power, wiring, motors, energy rates, meter reading, safety rules and regulations.
Prerequisite: AGSM 201; AGSM majors or minors only.

335 Water and Soil Management Credits 3. 2 Lecture Hours. 3 Lab Hours.
Elementary principles of surface and ground water supply, flood control, water distribution systems and irrigation systems; principles of drainage, soil conservation and erosion control; elementary surveying, chaining, leveling and mapping applied to agricultural and natural resource needs; illustrated by practical examples of terracing and farm pond design.
Prerequisite: 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.

337 Technology for Environmental and Natural Resource Engineering Credits 3. 3 Lecture Hours.
For the nonengineering student in the environmental and management sciences; concentrates on the application of technology for solving local environmental problems while considering global issues; reduction of water, air and hazardous waste pollutants; legislative issues and modeling.
Prerequisites: Grade of C or better in MATH 140 or MATH 141 and MATH 142 or AGSM 301.

360 Occupational Safety Management Credits 3. 3 Lecture Hours. 0 Lab Hours.
Safety considerations in the work environment, including safety mandates, safety mission, personal and business liability, fire, chemical, dust, machine noise, personal protective devices; design and implementation of safety programs.
Prerequisite: Junior or senior classification.

403 Processing and Storage of Agricultural Products Credits 3. 2 Lecture Hours. 2 Lab Hours.
Factors influencing the nature of biological materials and the preservation of quality throughout the harvesting, handling and processing system; a systems approach to cereal grains includes principles of drying, quality deterioration, storage, conveying and handling; processing of fiber crops.
Prerequisites: AGSM 310 and AGSM 315/NFSC 315; or approval of instructor.

417 Food Process Engineering Technology II Credits 3. 3 Lecture Hours.
Applications of basic engineering concepts to understand common unit operations in the food (and related) industry.
Prerequisites: AGSM 315/NFSC 315 or FSTC 315.
Cross Listing: FSTC 417/AGSM 417.

435 Irrigation Principles and Management Credits 3. 2 Lecture Hours. 3 Lab Hours.
Principles of irrigation and management for efficient use of water; soil-water-plant relationships; methods of application; power and labor requirements; automated systems and components.
Prerequisites: Grade of C or better in MATH 140 or MATH 141; grade of C or better in CHEM 101 and CHEM 111.

439 Management of Agricultural Systems I Credits 3. 3 Lecture Hours.
Application of agricultural systems management principles in solving realistic problems faced by agribusiness managers; project selection from problems posed by biological and agricultural industrial consultants; project feasibility study and outline; management and application philosophy; teamwork and communication, economics; product liability and reliability; standards and codes; goal setting and time management.
Prerequisites: Grade of C or better in AGSM 301; ENGL 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.

440 Management of Agricultural Systems II Credits 3. 2 Lecture Hours. 3 Lab Hours.
Management of agricultural systems through team solution of management problems posed by agribusiness managers, farmers, extension specialists and other industry consultants; application of management principles to give experience in solving realistic problems faced by agribusiness managers; critical evaluation of results by students, staff and consultants.
Prerequisites: COMM 203; grade of C or better in AGSM 439; should be taken last spring semester prior to graduation.

470 Agricultural Electronics and Control Credits 3. 2 Lecture Hours. 2 Lab Hours.
Technology of electronic systems in agricultural production and processing, sensors, actuators, and controllers, controller hardware and computer bases.
Prerequisite: AGSM 325; or approval of instructor.

473 Project Management for Agricultural Systems Technology Credits 3. 3 Lecture Hours.
Development of fundamental skill set in project management; basic knowledge of project management methods, tools and techniques; includes organization and life cycle, management processes, integration management, time management, cost management, quality management, communications management, risk management, procurement management, stakeholder management.
Prerequisites: Grade of C or better in AGSM 301; senior classification.

Agricultural Economics
(AGEC)

314. Marketing Agricultural and Food Products. (3-0). Credit 3. General introductory course covering operations involved in movement of agricultural commodities from farmer to consumer, essential marketing functions of buying, selling, transportation, storage, financing, standardization, pricing, and risk bearing. Prerequisites: AGEC 105 or 3 hours of economics; and junior or senior classification.

315. Food and Agricultural Sales. (3-0). Credit 3. Principles of professional sales techniques used in food and agricultural firms; develop a professional sales presentation; study current agribusiness industry professional salespersons. Prerequisite: Junior or senior classification.

330. Financial Management in Agriculture. (3-0). Credit 3. Principles of financial management of farms, ranches, livestock operations, and other agribusiness firms; financial statement analysis, investment analysis, firm growth, risk management, cost of capital, income taxes, business organization, estate planning, legal aspects of borrowing, and sources and terms of agricultural loans. Prerequisites: AGEC 105 or 3 hours of economics; ACCT 209 or ACCT 229; and junior or senior classification.

340. Agribusiness Management. (3-0). Credit 3. Systematic analysis of agribusiness firm-level decision making using a broad array of management concepts, managing agribusiness firms and their unique problems and opportunities, and exposure to decision making in agribusiness environment. Prerequisites: AGEC 105 or 3 hours of economics; and junior or senior classification.

344. Food and Agricultural Law. (3-0). Credit 3. Legal problems relevant to agribusiness; torts, fencing laws, liability for agricultural pollution, irrigation water rights, corporations and partnerships. Prerequisite: Junior or senior classification.

Economics
(ECON)

202. (ECON 2302) Principles of Economics. (3-0). Credit 3. Elementary principles of economics; the economic problem and the price system; theory of demand, theory of production and the firm, theory of supply; the interaction of demand and supply.Course Descriptions/Economics 629

203. (ECON 2301) Principles of Economics. (3-0). Credit 3. Measurement and determination of national income, employment, and price; introduction to monetary and fiscal policy analysis; the effects of government deficits and debt, exchange rates and trade balances. Prerequisite: ECON 202 or approval of undergraduate advisor.

Management
(MGMT)

209. Business, Government and Society. (3-0). Credit 3. Impact of the external environment-legal, political, economic and international-on business behavior; market and non-market solutions to contemporary public policies confronting business persons examined including antitrust law, employment and discrimination law, product safety regulation, consumer protection and ethics. May not be used to satisfy degree requirements for majors in business. Prerequisites: Sophomore classification; for students other than business and agribusiness majors.

309. Survey of Management. (3-0). Credit 3. Survey for non-business majors of the basic functions and responsibilities of managers; includes the environmental context of management, planning and decision making, organization structure and design, leading and managing people, and the controlling process; issues of globalization, ethics, quality and diversity integrated throughout the course. May not be used to satisfy degree requirements for majors in business. Prerequisites: Junior classification; for students other than business and agribusiness majors.

Marketing
(MKTG)

409. Principles of Marketing. (3-0). Credit 3. Survey of the basic concepts and decisions associated with product, promotion, distribution, and pricing; focuses on developing marketing strategies that contribute to building long-term customer relationships and achieving the organization's objectives. May not be used to satisfy degree requirements for a major in business. Prerequisites: Junior classification; for students other than business and agribusiness majors.

Statistics
(STAT)

302. Statistical Methods. (3-0). Credit 3. Intended for undergraduate students in the biological sciences. Introduction to concepts of random sampling and statistical inference; estimation and testing hypotheses of means and variances; analysis of variance; regression analysis; chi-square tests. Credit will not be allowed for more than one of STAT 301, STAT 302 or STAT 303. Prerequisite: MATH 141 or MATH 166 or equivalent.

303. Statistical Methods. (3-0). Credit 3. Intended for undergraduate students in the social sciences. Introduction to concepts of random sampling and statistical inference, estimation and testing hypotheses of means and variances, analysis of variance, regression analysis, chi-square tests. Credit will not be allowed for more than one of STAT 301, STAT 302 or STAT 303. Prerequisite: MATH 141 or MATH 166 or equivalent.

AGSM TECHNICAL ELECTIVES LIST	
Course Name	**Prerequisites**
Agricultural Economics	
AGEC 314 Marketing Agricultural and Food Products	AGEC 105 or 3 hours of economics; and junior or senior classification
AGEC 316 Building Customer Relations in AgriFood Selling	
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.
AGEC 340 Agribusiness Management	AGEC 105 or 3 hours of economics; and junior or senior classification.
AGEC 344 Food and Agricultural Law	Junior or senior classification
AGEC 350 Environmental and Natural Resource Economics	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.
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.
AGEC 408 Economics of Foreign Intervention, Conflict, & Development	
AGEC 413 Agricultural Cooperatives	AGEC 105; AGEC 314; and junior or senior classification.
AGEC 416 Sales Management and Advanced Techniques	
AGEC 422 Land Economics	AGEC 105 or 3 hours economics; and junior or senior classification
AGEC 429 Agricultural Policy	AGEC 105, ECON 202 or ECON 203; ENGL 103 or ENGL 104; and junior or senior classification
AGEC 452 International Trade and Agriculture	AGEC 105 or 3 hours of economics; and junior or senior classification
AGEC 453 International Agribusiness Marketing	AGEC 105 or 3 hours of economics; and junior or senior classification
Agricultural Systems Management	
AGSM 435 Irrigation Principles and Management	AGSM 335, AGSM 301, MATH 141
Animal Science	
ANSC 303/NUTR 303 Principles of Animal Nutrition	ANSC 107 and ANSC 108; CHEM 222 or CHEM 227 or equivalent
ANSC 307/FSTC 307 Meats	ANSC 107 and ANSC 108.
ANSC 317 Meat Selection, Evaluation and Grading	ANSC 107 and ANSC 108
ANSC 318 Feeds and Feeding	ANSC 303/NUTR 303.
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.
ANSC 337 Meat Merchandising	ANSC 307/FSTC 307; junior or senior classification
ANSC 402 Exploring Animal Industries	Junior or senior classification
ANSC 412 Swine Production and Management	Junior or senior classification or approval of instructor
ANSC 414 Sheep and Goat Production and Management	Junior or senior classification or approval of instructor
ANSC 431 Equine Marketing and Development	Junior or senior classification or approval of instructor
ANSC 437 Marketing and Grading of Livestock and Meats	Junior or senior classification.
ANSC 439 Feedlot Risk Management	junior or senior classification or approval of instructor
ANSC 447 Advanced Meat Science and Technology	ANSC 307/FSTC 307; CHEM 222 or approval of instructor; junior or senior classification.
Bioenvironmental Sciences	
BESC 314 Pathogens, the Environment and Society	Junior or senior classification
BESC 320 Water and the Bioenvironmental Sciences	Junior or senior classification.
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	
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.

COMM 350 Theories of Mediated Communication	Any lower-division communication course, or junior classification, or approval of instructor
COMM 443 Communication and Conflict	Any lower-division communication course, or junior classification, or approval of instructor
Economics	
ECON 311 Money and Banking	ECON 203
ECON 322 Applied Microeconomic Theory	ECON 202. May not be counted toward a major in economics
Engineering Design Graphics	
ENDG 407/MMET 307 Computer Design Graphics	ENDG 105 or ENGR 112 or equivalent
ENDG 408 Computer Graphics	ENDG 105 or ENDG 407 or ENGR 112
Entomology	
ENTO 315 Biotechnology and Society	Junior or senior classification or approval of instructor
ENTO 320 Honey Bee Biology	Junior or senior classification or approval of instructor
ENTO 322 Insects and Human Society	Junior or senior classification
ENTO 401 Principles of Integrated Pest Management	ENTO 201 or ENTO 208
Food Science and Technology	
FSTC 305 Fundamental Baking	CHEM 222 or 227 or approval of department head
FSTC 307/ANSC 307 Meats	ANSC 107 and 108 or approval of department head
FSTC 311/HORT 311 Principles of Food Processing	FSTC 201; junior or senior classification or approval of department head or instructor
FSTC 312/DASC 312 Food Chemistry	FSTC 201; CHEM 227; CHEM 237 or approval of department head or instructor
FSTC 326/DASC 326 Food Bacteriology	BIOL 206 or approval of instructor; junior or senior classification
FSTC 330/DASC 330 Dairy and Food Technology	
FSTC 331/DASC 331 Dairy and Food Technology	FSTC 330/DASC 330 or approval of department head
FSTC 446/HORT 446 Commercial Fruit and Vegetable Processing	FSTC 311/HORT 311
FSTC 457/ANSC 457 Hazard Analysis and Critical Control Point System	FSTC 326/DASC 326 or approval of instructor
Ecosystem Science and Managment	
ESSM 305 Watershed Analysis and Planning	Junior or senior classification
ESSM 308 Fundamentals of Environmental Decision-Making	Junior or senior classification or approval of instructor
ESSM 314 Principles of Rangeland Management Around the World	Junior or senior classification or approval of instructor
ESSM 351 Geographic Information Systems for Resource Management	Junior or senior classification or approval of instructor ***cross listed with RENR 405-can only take one or the other
ESSM 398 Interpretation of Aerial Photographs	Junior or senior classification or approval of instructor
ESSM 405 Forest Resource Assessment and Management	Senior classification or approval of instructor
ESSM 444 Remote Sensing of the Environment	Junior or senior classification or approval of instructor
ESSM 459 Programming for Spatial Data Applications	ESSM 351 or equivalent, junior or senior classification or approval of instructor
Geography	
GEOG 330 Resources and the Environment	
GEOG 361 Remote Sensing in Geosciences	Junior or senior classification
GEOG 390 Principles of Geographic Information Systems	Junior or senior classification
GEOG 398 Interpretation of Aerial Photographs	Junior or senior classification or approval of instructor
GEOG 475 Advanced Topics in GIS (Geographic Information Systems)	GEOG 390 or equivalent
Geology	
GEOL 320 Geology for Civil Engineers	Sophomore classification
GEOL 352/GEOG 352 GNSS in the Geosciences	Junior or senior classification; approval of instructor

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	
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	
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, and Tourism Sciences	
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	
RENR 375 Conservation of Natural Resources	
RENR 405 GIS for Environmental Problem Solving	RENR 201 or equivalent or approval of instructor ***cross listed with ESSM 351-can only take one or the other
RENR 410 Ecosystem Management	RENR 205, senior classification or approval of instructor
RENR 460/RPTS 460 Nature, Values, and Protected Areas	RPTS 307 or RPTS 316; or 9 hours of credit in natural resource courses
RENR 470 Environmental Impact Assessment	Senior classification or approval of instructor
Soil and Crop Sciences	
SCSC 301 Soil Science	Junior or senior classification, or approval of instructor
SCSC 310 Soil Morphology and Interpretations	SCSC 301 or registration therein
SCSC 330 Social and Ethical Aspects of International Cropping Systems	Junior or senior classification
SCSC 455 Environmental Soil and Water Science	SCSC 301 or approval of instructor
Wildlife and Fisheries Sciences	
WFSC 423 Aquaculture	
WFSC 428 Wetland Ecosystem Management	Junior or senior classification

NOTES:

TRIAL SCHEDULE

MWF	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	TR
8:00						8:00
9:10						9:35
10:20						
11:30						11:10
12:40						12:45
1:50						
3:00						2:20
4:10						3:55
5:45						
						5:30

TRIAL SCHEDULE

MWF	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	TR
8:00						8:00
9:10						9:35
10:20						
11:30						11:10
12:40						12:45
1:50						
3:00						2:20
4:10						3:55
5:45						
						5:30

*Courses that "double dip" with TAMU required International and Cultural Diversity (ICD) requirements – 6 hrs:

- Creative Arts and ICD
- Language Philosophy and Culture and ICD
- Social and Behavioral Science and ICD
- American History and ICD

PLEASE REFER to http://core.tamu.edu for the most accurate/up-to-date list.

American History	AFST 301	Blacks in the US since 1877	HIST 301
American History	HIST 258	American Indian History	
American History	HIST 301	Blacks in the US since 1877	AFST 301
Creative Arts	ARCH 249	Survey of World Architecture History I	
Creative Arts	ARCH 250	Survey of World Architecture History II	
Creative Arts	ARCH 350	History and Theory of Modern and Contemporary Architecture	
Creative Arts	ARTS 149	Art History Survey I	
Creative Arts	ARTS 150	Art History Survey II	
Creative Arts	CARC 311	Field Studies in Design Communication	
Creative Arts	COMM 340	Communication and Popular Culture	
Creative Arts	DCED 202	Dance Appreciation	
Creative Arts	ENDS 101	Design Process	
Creative Arts	ENGL 219	Literature and the Other Arts	
Creative Arts	ENGL 251	Introduction to Film Analysis	FILM 251
Creative Arts	FILM 215	Global Cinema	INTS 215
Creative Arts	FILM 251	Introduction to Film Analysis	ENGL 251
Creative Arts	FILM 299	History of Film	
Creative Arts	FILM 425	French Film	FREN 425
Creative Arts	FREN 425	French Film	FILM 425
Creative Arts	INTS 215	Global Cinema	FILM 215
Creative Arts	MUSC 201	Music and the Human Experience	

Creative Arts	MUSC 221	Guitar Heroes	
Creative Arts	MUSC 226	History of Rock	
Creative Arts	MUSC 301	Performance in World Cultures	PERF 301, THAR 301
Creative Arts	MUSC 328	Japanese Traditional Performing Arts	THAR 328
Creative Arts	MUSC 386	Evolution of the American Musical	THAR 386
Creative Arts	THAR 101	Introdcution to Western Theatre and Drama	
Creative Arts	THAR 101	Introduction to Western Theatre and Drama	
Creative Arts	THAR 201	Introduction to World Theatre	
Creative Arts	THAR 281	History of the Theatre II	
Creative Arts	THAR 301	Performance in World Cultures	PERF 301, MUSC 301
Creative Arts	THAR 328	Japanese Traditional Performing Arts	MUSC 328
Language, Philosophy and Culture	AFST 204	Introduction to African-American Literature	ENGL 204
Language, Philosophy and Culture	AFST 345	Modern Africa	HIST 345
Language, Philosophy and Culture	ANTH 205	Peoples and Cultures of the World	
Language, Philosophy and Culture	ANTH 317	Introduction to Biblical Archaeology	RELS 317
Language, Philosophy and Culture	ARAB 201	Intermediate Arabic I	
Language, Philosophy and Culture	ARAB 202	Intermediate Arabic II	
Language, Philosophy and Culture	ARCH 213	Sustainable Architecture	
Language, Philosophy and Culture	ARCH 346	Architecture, Heritage, and Culture	
Language, Philosophy and Culture	CARC 331	Field Studies in Design Philosophy	
Language, Philosophy and Culture	CHIN 201	Intermediate Chinese I	

Language, Philosophy and Culture	CHIN 202	Intermediate Chinese II	
Language, Philosophy and Culture	COMM 327	American Oratory	
Language, Philosophy and Culture	ENGL 204	Introduction to African-American Literature	AFST 204
Language, Philosophy and Culture	ENGL 206	21st Century Literature and Culture	
Language, Philosophy and Culture	ENGL 221	World Literature	MODL 221
Language, Philosophy and Culture	ENGL 222	World Literature	MODL 222
Language, Philosophy and Culture	ENGL 232	Survey of English Literature II	
Language, Philosophy and Culture	ENGL 253	Introduction to Cultural Studies & Popular Culture	
Language, Philosophy and Culture	ENGL 306	Transnational Literature and Culture	
Language, Philosophy and Culture	ENGL 333	Gay and Lesbian Literature	WGST 333
Language, Philosophy and Culture	ENGL 338	American Ethnic Literature	
Language, Philosophy and Culture	ENGL 352	Literature, World War II to Present	
Language, Philosophy and Culture	ENGL 362	Latino/a Literature of the U.S.	HISP 362
Language, Philosophy and Culture	ENGL 374	Women Writers	WGST 374
Language, Philosophy and Culture	ENGL 376	The American Novel Since 1900	
Language, Philosophy and Culture	FREN 201	Intermediate French I	
Language, Philosophy and Culture	FREN 202	Intermediate French II	
Language, Philosophy and Culture	FSTC 300	Religious and Ethnic Foods	NUTR 300
Language, Philosophy and Culture	GEOG 202	Geography of the Global Village	
Language, Philosophy and Culture	GEOG 301	Geography of the United States	
Language, Philosophy and Culture	GERM 201	Intermediate German I	

Language, Philosophy and Culture	GERM 202	Intermediate German II	
Language, Philosophy and Culture	HISP 362	Latino/a Literature of the U.S.	ENGL 362
Language, Philosophy and Culture	HIST 210	Russian Civilization	
Language, Philosophy and Culture	HIST 214	History of England	
Language, Philosophy and Culture	HIST 345	Modern Africa	AFST 345
Language, Philosophy and Culture	INTS 251	Contemporary Issues in the Middle East	
Language, Philosophy and Culture	ITAL 201	Intermediate Italian I	
Language, Philosophy and Culture	ITAL 202	Intermediate Italian II	
Language, Philosophy and Culture	JAPN 201	Intermediate Japanese I	
Language, Philosophy and Culture	JAPN 202	Intermediate Japanese II	
Language, Philosophy and Culture	LAND 240	History of Landscape Architecture	
Language, Philosophy and Culture	MODL 221	World Literature	ENGL 221
Language, Philosophy and Culture	MODL 222	World Literature	ENGL 222
Language, Philosophy and Culture	MUSC 227	Popular Music of India	
Language, Philosophy and Culture	MUSC 325	Dance and World Cultures	PERF 325
Language, Philosophy and Culture	NFSC 300	Religious and Ethnic Foods	
Language, Philosophy and Culture	NUTR 300	Religious and Ethnic Foods	FSTC 300
Language, Philosophy and Culture	NUTR 300	Religious and Ethnic Foods	FSTC 300
Language, Philosophy and Culture	PERF 325	Dance and World Cultures	MUSC 325
Language, Philosophy and Culture	RELS 312	Contemplation in the Modern World	
Language, Philosophy and Culture	RELS 317	Introduction to Biblical Archaeology	ANTH 317

Language, Philosophy and Culture	RUSS 201	Intermediate Russian I	
Language, Philosophy and Culture	RUSS 202	Intermediate Russian II	
Language, Philosophy and Culture	SPAN 201	Intermediate Spanish I	
Language, Philosophy and Culture	SPAN 202	Intermediate Spanish II	
Language, Philosophy and Culture	SPMT 220	Olympic Studies	
Language, Philosophy and Culture	WGST 333	Gay and Lesbian Literature	ENGL 333
Language, Philosophy and Culture	WGST 374	Women Writers	ENGL 374
Social and Behavioral Sciences	ANTH 201	Introduction to Anthropology	
Social and Behavioral Sciences	ARCH 212	Social and Behavioral Factors in Design	
Social and Behavioral Sciences	ARCH 458	Cultural and Ethical Considerations for Global Practice	
Social and Behavioral Sciences	COMM 335	Intercultural Communication	
Social and Behavioral Sciences	COMM 365	International Communication	JOUR 365
Social and Behavioral Sciences	EPSY 320	Child Development for Educators	
Social and Behavioral Sciences	GEOG 201	Introduction to Human Geography	
Social and Behavioral Sciences	HLTH 236	Race Ethnicity and Health	
Social and Behavioral Sciences	HORT 335	Sociohorticulure	
Social and Behavioral Sciences	JOUR 365	International Communication	COMM 365
Social and Behavioral Sciences	MARS 210	Marine Geography	
Social and Behavioral Sciences	PSYC 107	Introduction to Psychology	
Social and Behavioral Sciences	SOCI 205	Introduction to Sociology	
Social and Behavioral Sciences	SOCI 206	Global Social Trends	

Social and Behavioral Sciences	SOCI 212	Sociology of Popular Culture	
Social and Behavioral Sciences	SOCI 312	Population and Society	
Social and Behavioral Sciences	SOCI 313	Military, War and Society	
Social and Behavioral Sciences	SOCI 314	Social Problems	
Social and Behavioral Sciences	SOCI 327	Morality and Society	
Social and Behavioral Sciences	SPMT 336	Diversity in Sport Organizations	
Social and Behavioral Sciences	SPMT 337	International Sport Business	
Social and Behavioral Sciences	URPN 361	Urban Issues	
Technical Elective (AGSM)	AGEC 452	International Trade and Agriculture	
Technical Elective (AGSM)	AGEC 453	International Agribusiness Marketing	
Technical Elective (AGSM)	ECON 330	Economic Development	
Technical Elective (AGSM)	ECON 452	International Trade Theory and Policy	
Technical Elective (AGSM)	EHRD 408	Globalization and Diversity in the Workplace	
Technical Elective (AGSM)	ESSM 314	Principles of Rangeland Management Around the World	
Technical Elective (AGSM)	HORT 440	International Horticulture	
Technical Elective (AGSM)	SCSC 420	Brazilian Agriculture and Food Production Systems	
Technical Elective (AGSM)	WGST 430	Employment Discrimination Law	MGMT 430

NOTES:

SCHOLASTIC INFORMATION

AP and IB Information for Incoming Freshmen

http://dars.tamu.edu/Testing/AP,-SAT,-ACT,-and-Other-Information-for-Incoming-F

Advanced Placements Program (AP)

Texas A&M University accepts scores on certain College Board Advanced Placement tests for credit in selected courses. Up to three semesters of credit in a subject area may be awarded. Interested students should contact their high school counselors for information on registration and test sites. Students should refer to the current Undergraduate Catalog to determine which courses apply to their degree programs. Scores reported from the spring AP test administration will not be received until late July. The College Board Code for Texas A&M is 6003. Students will need to accept AP credit to have it applied to their transcript for course credit. Credit may now be accepted under the "My Record" tab in the students Howdy portal.

Honors Credit is no longer awarded for Advanced Placement Exams.

- Advanced Placement (AP) Requirements

INTERNATIONAL BACCALAUREATE (IB)

International Baccalaureate Diploma
Texas A&M University, in compliance with SB 111, will grant at least 24 semester credit hours of course-specific college credit in subject-appropriate areas on all International Baccalaureate (IB) exam scores of 4 or above as long as the incoming freshman has earned an IB Diploma. While some course credit will be awarded regardless of a student's IB Diploma status, some course credit at Texas A&M University may be subject to the successful completion of the IB Diploma.

Entering freshman students for the 2008-09 academic year should submit their International Baccalaureate transcript to Texas A&M University, score recipient code: 01355, for review. Students should contact Testing Services regarding their eligibility for course credit. Students should work with an Academic Advisor to determine the use of the IB credits in their individual degree plan and the impact accepting the credit may have upon tuition rebate eligibility, tuition charges for excessive total hours, and preparedness for sequential course work based on IB test scores. Students will need to contact Testing Services in order to accept or deny the credit earned via IB tests.

Texas A&M University will notify IB applicants of their eligibility to receive credit by posting information on this website and by establishing links to other web pages that are relevant to applicant students.

The evaluation of IB courses in order to identify the appropriate course credit is continuing and will be posted as it becomes available.

- International Baccalaureate (IB)

AP Examination	Required Score	Texas A&M Course(s)	Credit Hours
AP Research	3	See academic advisor[1]	var[2]
AP Seminar	3	See academic advisor[1]	var[2]
Art History	3	ARTS 149	3
	4	ARTS 149 and 150	6
Biology	3	BIOL 113 and 123	4
	4	BIOL 111 and 112	8
Calculus AB	3	MATH 131	3
	4*	MATH 151	4
Calculus BC	3*	MATH 151	4
	4*	MATH 151, 152	8
Chemistry	3	CHEM 101, 111	4
	4	CHEM 101, 111, 102, 112	8
Chinese	3	CHIN 101, 102	8
	4	CHIN 101, 102, 201, 202	14
Comparative Governments	3	POLS 229	3
Computer Science A	3	CSCE 110	4
Computer Science Principles	3	CSCE 110	4
English Lang. and Comp.	3	ENGL 104	3
	4	ENGL 104, 241	6
English Lit. and Comp.	3	ENGL 104	3
	4	ENGL 104, 203	6
Environmental Science	3	GEOS 105	3
European History	3	HIST 102	3
French	3	FREN 101, 102	8
	4	FREN 101, 102, 201, 202	14
German	3	GERM 101, 102	8
	4	GERM 101, 102, 201, 202	14
Human Geography	3	GEOG 201	3
Italian	3	ITAL 101, 102	8
	4	ITAL 101, 102, 201, 202	14
Japanese	3	JAPN 101, 102	8
	4	JAPN 101, 102, 201, 202	16
Latin Literature	3	CLAS 121, 122	8
	4	CLAS 121, 122, 221, 222	14
Macroeconomics	3	ECON 203	3
Microeconomics	3	ECON 202	3
Music Theory	3	MUSC 102	3
Physics 1	3	PHYS 205	4
	4	PHYS 201	4
Physics 2	3	PHYS 205	4
	4	PHYS 202	4
Physics C: Elec. And Mag.	3	PHYS 208	4
Physics C: Mechanics	3	PHYS 218	4
Psychology	3	PSYC 107	3
Spanish Language	3	SPAN 101, 102	8
	4	SPAN 101, 102, 201	11
	5	SPAN 101, 102, 201, 202	14
Spanish Literature	3	SPAN 202	3
	5	SPAN 202, 320	6
Statistics	3	STAT 201	3

Studio Art: 2-D Design	3	ARTS 103	3
	4	ARTS 103 and 111	6
Studio Art: 3-D Design	3	ARTS 103	3
Studio Art: Drawing	3	ARTS 103	3
	4	ARTS 103 and 111	6
U.S. Govt & Politics	3	POLS 206	3
U.S. History	3	HIST 105 and 106	6
World History	3	HIST 104	3

[1]Students must consult their academic advisor for advise on the number of credits that can be used in their degree program to avoid excessive credit accumulation and possible negative effects.

[2]Variable credits up to a maximum of 3 credit hours. Students must consult their academic advisor for advise on the number of credits that can be used in their degree program to avoid excessive credit accumulation and possible negative effects.

***Credit in MATH 151 may be substituted for MATH 131, 142, or 171. Credit in MATH 152 may be substituted for credit in MATH 172.**

CLEP Exam	Required Score	Texas A&M Course(s)	Credit Hours
College Algebra	50	MATH 102	3
American Government	50	POLS 206	3
Calculus w/ Elem Functions	50	MATH 151 or 171	4
Chemistry	45	CHEM 101/111	4
Chemistry	50	CHEM 101/111 and 102/112	8
Financial Accounting	50	ACCT 209	3
Information Systems	50	ISTM 209	3
US History I: Early to 1877	50	HIST 105	3
US History II: 1865 to Present	50	HIST 106	3
Human Growth and Devel.	50	EPSY 320 or PSYC 307	3
Princ. Of Macroeconomics	50	ECON 203	3
Princ. Of Microeconomics	50	ECON 202	3
Pre-Calculus	50	MATH 150	4
Intro to Psychology	50	PSYC 107	3
Intro to Sociology	50	SOCI 205	3
Western Civilization I: Ancient Near East to 1648	50	HIST 101	3
Western Civilization II: 1648 to Present	50	HIST 102	3

CLEP exams are provided by College Board. If a student were to transfer out of Texas A&M, their CLEP credit will transfer with them.

* Please note starting September 1.2017 the required score for History credit will be 50. You must have taken the exam on or after September 01.2017 to receive credit with a score of 50. If you took the exam prior to September 01.2017 a score of 60 is required for credit.

Departmental Exam	Required Score
Chemistry 101	60
Chemistry 102	60
PHYS 201	70
PHYS 202	70
PHYS 208	75
PHYS 218	75
POLS 206	60
POLS 207	60

Departmental exams for MATH are given to incoming freshman ONLY. These exams must be at their NSC.

Departmental exams are developed by the departments here at Texas A&M University and are only good for Texas A&M. If a student transfers, the credit does not tranfer with them.

IB Examination	Required Score	Texas A&M Course(s)	Credit Hours
Arabic SL	4	ARAB 101	4
	5	ARAB 101 and 102	8
	6	ARAB 101, 102 and 201	11
	7	ARAB 101, 102, 201 and 202	14
Arabic HL	3	ARAB 101	4
	4	ARAB 101 and 102	8
	5	ARAB 101, 102 and 201	11
	6	ARAB 101, 102, 201 and 202	14
Biology SL	4	BIOL 113 and 123	4
Biology HL	4	BIOL 111	4
	5	BIOL 111 and 112	8
Business Management SL/HL	4	MGMT 309	3
Chemistry SL	4	CHEM 106 and 116	4
Chemistry HL	4	CHEM 101 and 111	4
	5	CHEM 101, 111, 102 and 112	8
Chinese SL	4	CHIN 101	4
	5	CHIN 101 and 102	8
	6	CHIN 101, 102 and 201	11
	7	CHIN 101, 102, 201 and 202	14
Chinese HL	3	CHIN 101	4
	4	CHIN 101 and 102	8
	5	CHIN 101, 102 and 201	11
	6	CHIN 101, 102, 201 and 202	14
Computer Science SL/HL	4	CPSC 111	4
Economics SL/HL	4	ECON 203	3
English Language SL	4	ENGL 104	3
English Language HL	4	ENGL 104	3
	5	ENGL 104 and 222	6
Environmental Systems	4	GEOS 105	3
French SL	4	FREN 101	4
	5	FREN 101 and 102	8
	6	FREN 101, 102 and 202	11
	7	FREN 101, 102, 201 and 202	14
French HL	3	FREN 101	4
	4	FREN 101 and 102	8
	5	FREN 101, 102 and 202	11
	6	FREN 101, 102, 201 and 202	14
Further Mathematics SL	4	MATH 102	3
	5	MATH 150	4
Geography SL/HL	4	GEOG 201	3
German SL	4	GERM 101	4
	5	GERM 101 and 102	8
	6	GERM 101, 102 and 201	11
	7	GERM 101, 102, 201 and 202	14
German HL	3	GERM 101	4
	4	GERM 101 and 102	8
	5	GERM 101, 102, and 201	11
	6	GERM 101, 102, 201 and 202	14
Greek SL	4	CLAS 101	4
	5	CLAS 101 and 102	8
	6	CLAS 101, 102 and 211	11
	7	CLAS 101, 102, 211 and 311	14
History HL			
Africa	4	HIST 289	3
Americas	4	HIST 105	3
	5	HIST 105 and 106	6

E and SE Asia and Oceania	4	HIST 289	3
Europe	4	HIST 102	3
South Asia & Middle East	4	HIST 289	3
Islamic	4	HIST 289	3
Info Tech/Global Society SL/HL	4	PHIL 205	3
Italian SL	4	ITAL 101	4
	5	ITAL 101 and 102	8
	6	ITAL 101, 102 and 201	11
	7	ITAL 101, 102, 201 and 202	14
Italian HL	3	ITAL 101	4
	4	ITAL 101 and 102	8
	5	ITAL 101, 102 and 201	11
	6	ITAL 101, 102, 201 and 202	14
Japanese SL	4	JAPN 101	4
	5	JAPN 101 and 102	8
	6	JAPN 101, 102 and 201	12
	7	JAPN 101, 102, 201 and 202	16
Japanese HL	3	JAPN 101	4
	4	JAPN 101 and 102	8
	5	JAPN 101, 102 and 201	12
	6	JAPN 101, 102, 201 and 202	16
Latin SL	4	CLAS 121	4
	5	CLAS 121 and 122	8
	6	CLAS 121, 122 and 221	11
	7	CLAS 121, 122, 221 and 222	14
Mathematics SL	4	MATH 150	4
Mathematics HL	4	MATH 150	4
	5	MATH 150 and 151	8
Mathematic Methods SL	4	MATH 102	3
	5	MATH 150	4
Mathematic Studies SL	4	MATH 102	3
	5	MATH 150	4
Music SL/HL	4	MUSC 201	3
Other Languages SL	4	MODL 289	4
	5	MODL 289	8
	6	MODL 289	11
	7	MODL 289	14
Other Languages HL	3	MODL 289	4
	4	MODL 289	8
	5	MODL 289	11
	6	MODL 289	14
Philosophy SL/HL	4	PHIL 251	3
Physics SL	4	PHYS 205	4
Physics HL	4	PHYS 201 and 202	8
Psychology SL/HL	4	PYSC 107	3
Soc. and Cult. Anthrop. SL/HL	4	ANTH 210	3
Spanish SL	4	SPAN 101	4
	5	SPAN 101 and 102	8
	6	SPAN 101, 102 and 201	11
	7	SPAN 101, 102, 201 and 202	14
Spanish HL	3	SPAN 101	4
	4	SPAN 101 and 102	8
	5	SPAN 101, 102 and 201	11
	6	SPAN 101, 102, 201 and 202	14
Theater Arts SL/HL	4	THAR 101	3
Visual Arts SL/HL	4	ENDS 101	3

Q-DROPS

For complete information regarding Q-Drops you must go to http://student-rules.tamu.edu/search/rule01 and read section 1.18. To locate a Q-Drop form you must go to http://registrar.tamu.edu/Registrar/media/REGI_Forms/Q-Drop_Form.pdf. After you have completed the form, you must print the form, sign and date it, and bring it to Scoates Hall, room 303H. The form must be delivered prior to the posted Q-Drop deadline. Q-drop deadlines are posted on the University's academic calendar located at http://registrar.tamu.edu/Catalogs,-Policies-Procedures/Academic-Calendar

WITHDRAWING FROM THE UNIVERSITY

- A student may withdraw (W) if the student has unusual or extenuating circumstances. Requests **must** include appropriate documentation. See University Student rule 1.20 to see what constitutes extenuating circumstances.
- The deadline to withdraw is the last day to Q-drop; however, W's may be awarded after the Q-drop deadline with the above-referred documentation. No withdrawals will be accepted once finals begin.
- You must submit a request to withdraw through the My Record tab in the Howdy Portal. This will be sent to the dean or dean's designee for processing.

Please refer to http://student-rules.tamu.edu/rule19 for a chart that lists what percentage of your tuition and fees are refunded. Example: Prior to the first class day - 100%; during the first five class days - 80%, etc.

REGISTRATION

- It is the responsibility of the student to be sure that COURSE PREREQUISITES ARE MET. **FAILURE TO MEET PREREQUISITES FOR BAEN and AGSM COURSES WILL RESULT IN THE STUDENT BEING DROPPED FROM THE CLASSES FOR WHICH PREREQUISITES HAVE NOT BEEN MET.**
- **All prerequisites will be listed in the Undergraduate Catalog.** Course restrictions and prerequisites, if any, can be viewed on the Schedule of Classes by selecting the course number and title.
- Prerequisites for courses often change. When a prerequisite changes, you must meet the new requirements.
- When registering for courses, you are required to take courses that will lead to the completion of the degree for which you were admitted. Failure to enroll in courses that will lead to your degree results in a "Curriculum Violation" as indicated in TAMU Student rule 1.5.1. **Students in the Department of Biological and Agricultural Engineering who violate this rule will have all courses that do not apply to their degree removed from their schedule.**
- Your classification is based on the total number of hours you have COMPLETED and does NOT include your "in progress" course hours.
- Students in BAEN and AGSM will be **BLOCKED** from preregistration every semester until they have seen their advisor (permitting the hold to be lifted) you will be able to register for classes during your assigned registration time.
- You will be sent an e-mail to **your TAMU e-mail account advising you to look at the Howdy Portal for your registration start date and time**. If you miss/forget your preregistration you will NOT be able to register until open registration which is at the END of the preregistration period.
- A student may **ADD** classes during the first five class days of the fall or spring semester or during the first four days of the summer terms or a 10-week summer semester. (Student Rule 1.16.1)
- A student may **DROP** a course with no record during the first twelve class days of a fall or spring semester and during the first four class days of a summer term or a 10-week summer semester. (Student Rule 1.18.2)
- The Q-drop period begins on the thirteenth class day of fall or spring semester and ends on the 60th
- day. (Student Rule 1.18.2)
- The Q-drop period begins on the fifth class day of the summer terms or a 10-week semester. Q-drop

ends on the 15th class day of the 5 week summer terms or on the 35th class day of a 10-week summer semester. (Student Rule 1.18.2)

STUDENT WORKER REGISTRATION

- Students who work on- OR off-campus a minimum of twelve (12) hours between 8 a.m. and 5 p.m., Monday through Friday are allowed to preregister for their classes one day earlier than the student population of their assigned classification so they can schedule their classes around their work schedules.
- To qualify for early preregistration, student employees must submit a Texas A&M University Employment Certification for Student Employment Form. This form can be found at http://registrar.tamu.edu/Registrar/media/REGI_Forms/StudentWorkerForm.pdf.

FORCING FOR NON-BAEN or NON-AGSM COURSES

- Students unable to register for a course because all seats are full in all sections may be able to request to be "forced" into the class. Each department has its own rules about forcing, and these rules vary from course to course and sometimes, semester to semester.
- **You must contact the department offering the course regarding forcing. The advisors in the Department of Biological and Agricultural Engineering cannot force students into non-departmental courses (e.g., agricultural economics, chemistry, math, mechanical engineering etc).**

FORCING POLICY FOR BAEN and AGSM COURSES

- To request a "force" in a BAEN or AGSM course, all requests must be submitted online: https://baen.tamu.edu/academics/undergraduates/force-request/
- **Do not contact the course instructor**.
- Submitting a force request **DOES NOT GUARANTEE** you will be forced into your requested BAEN or AGSM course(s).
- **Decisions for force requests WILL NOT be made until after grades are posted.**
- **In all cases, it is your responsibility to check your student schedule to see whether or not your force request has been approved. In certain cases where force requests have been granted, there may be a time conflict with one or more of the courses in which you are registered. When this situation occurs, it is your responsibility to drop the course(s) you do not want.**
- The priority in which forces are allocated within each course/section are as follows: (1) BAEN/AGSM students who are graduating in the upcoming semester; (2) students who are non-majors that are graduating in the upcoming semester; (3) all other BAEN/AGSM students; and (4) all other non-majors.

TRANSFER COURSE CREDIT

- **You are required to have all transfer course credit (including correspondence, AP credit, dual credit, and credit by exam) posted to your Texas A&M University transcript as soon as the course work has been completed.**
- Official transcripts from other colleges/universities must be received by the Office of Admissions for you to receive academic credit.
- The Admissions Office is located in Suite 1601, General Services Complex, 750 Agronomy Road. Their telephone number is 979-845-1060.
- Transfer credits, except from TAMU-Galveston, are not calculated into A&M GPRs (cumulative, major, and CBK).
- You can find course equivalencies on your Howdy portal by selecting the Transfer Course Equivalency link.
- You can also use www.tccns.org to compare institutions regarding equivalent transfer credit.

- In some cases, "by title" courses may be substituted for required A&M courses through a substitution request process. Materials from the course taken at your other college/university are required for the substitution process. The materials you will need are:

    1. A complete course syllabus or professor course outline.
    2. Other useful material would be title and table of contents from the textbook, workbooks, tests, homework, reports, paper, class notes, quizzes, exams, etc.

REQUIREMENTS FOR THE AGGIE RING

- You must complete 90 hours (this includes transfer hours, if any). 45 of your 90 hours must be completed at TAMU.
- You must have a cumulative GPA of at least a 2.0 and you must not be on academic probation, suspension, dismissal, expulsion, or on honor violation probation from the University.
- For more information please visit the Aggie Ring website at http://www.aggienetwork.com/ring/csorder.aspx or contact the Ring Office at 979-845-1050, or AggieRing@AggieNetwork.com.

GRADUATION REQUIREMENTS

- Requirements for graduation are listed in the Undergraduate Catalog and in the Texas A&M University *Student Rules*, http://student-rules.tamu.edu/rule14.
- Students must have a minimum GPR of at least a 2.0 Overall and in their Major Coursework.
- Students must have settled all financial obligations to the university.
- A minimum of 36 hours of 300-and/or 400-level course work must be successfully completed in residence at Texas A&M University. A minimum of 12 of these 36 semester hours must be "in the major".
- **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 & 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

TUITION REBATE FOR CERTAIN UNDERGRADUATES

- Certain undergraduate students who meet ***all*** of the predetermined state mandated requirements may be entitled to a $1,000 rebate upon completion of their first baccalaureate degree. Students must apply ***PRIOR*** to 5 p.m. on the Friday of commencement. A student may apply for the tuition rebate by selecting the "Apply for the Tuition Rebate" link in the Graduation channel on the My Record tab in *Howdy*. Students will not be able to apply for the rebate until a graduation application has been submitted. http://registrar.tamu.edu/Catalogs,-Policies-Procedures/State-Policies/Tuition-Rebate .
- Questions regarding Tuition Rebate should be directed to the Registrar's Office by phone at 979-845-1085 or email at tuitionrebate@tamu.edu.

MINORS, DOUBLE MAJORS, SECOND DEGREES AND HONOR ROLL

1. MINORS: Students may pursue and receive transcript recognition for a minor program. Students applying for a minor must be in good academic standing (have a cumulative GPR of at least a 2.0.)

- Students desiring to pursue a minor might need to talk with the minor-granting department first to obtain permission and the appropriate course list. Please check with Ashlea to see if this is a necessary step you will need to take.
- Once the student has completed a minor request form (if required), they are to bring a copy of the form to Ashlea in the Department of Biological and Agricultural Engineering. NOTE: Some exceptions are for the BUSI, MATH, and ECON minors. Students wanting to pursue a BUSI, MATH, or ECON minor should visit with Ashlea in the Department of Biological and Agricultural Engineering.
- You must earn a grade of "C" or better for all courses required for a minor; unless stated otherwise.
- Once a student declares a minor, it becomes part of their graduation requirements. **The minor program is recognized on the transcript after graduation. The minor program is NOT recognized on the diploma.**

2. DOUBLE MAJORS: For complete information, please go to http://student-rules.tamu.edu/rule14 and view the guidelines under section 14.3. Students wanting to pursue a double major must meet with an advisor in the second major to fill out this form: hhttp://registrar.tamu.edu/Registrar/media/REGI_Forms/Degree-Audit-Double-Major-Request-Form.pdf. After obtaining the list of coursework to complete, the student must bring the original form to Ashlea in the Department of Biological and Agricultural Engineering. Second majors must be declared BEFORE the student reaches 95 total credit hours.

3. DOUBLE DEGREES: Each degree awarded by Texas A&M University has its own unique program requirements. Please contact the academic department or college which offers the desired secondary degree program to determine if there are additional requirements a student must meet at the time of application. All double degree requests are submitted online through the University Adjustment System, via the primary academic advising office.

4. DISTINGUISED STUDENT AND DEAN'S HONOR ROLL: For a complete list of criteria needed to obtain one of these prestigious honors, please go to http://student-rules.tamu.edu/rule11.

TEXAS A&M UNIVERSITY

College of Agriculture and Life Sciences

Minor Title	Minor Code	Dept Code	Requirements		
			Prerequisites	Application Process	Academic Requirements
Agribusiness Entrepreneurship	AGBE	AGEC	2.0 overall GPA All prerequisites for each required course	Meet with academic advisor Complete an application for the minor. Applications are available in Room 214 of the AGLS Bldg. http://agecon.tamu.edu/wp-content/uploads/2013/10/minor-in-agribusiness-entrepreneurship.pdf	C or better in each course
Agricultural Communications and Journalism	AGCJ	AGCJ	2.5 overall GPA and a clearly communicated interest in communication and agriculture	Online application and case study must be completed by March 10, June 10, or October 10, for admission in the following term http://alec.tamu.edu/academics/undergraduate/minor-agricultural-communications-journalism/	C or better in each course
Agricultural Economics	AGEC	AGEC	2.0 overall GPA All prerequisites for each required course listed prior to enrolling in the course	Completed and approved application http://agecon.tamu.edu/undergraduate/current-students/resources/agec-minor/	C or better in each course
Agricultural Systems Management	AGSM	BAEN	MATH 141 & MATH 142 with C or better	Completed and approved application http://baen.tamu.edu/wp-content/uploads/sites/24/2011/03/AGSM_minor.pdf	C or better in each course
AgriFood Sales	AGFS	AGEC	2.0 overall GPA All prerequisites for each required course and for the six hours of AGEC electives must be met in addition to the 15 hours required for the minor Prerequisites for AGEC courses cannot be taken concurrently with AGEC courses Prerequisites will not be applied to the minor requirements		C or better in each course
Agronomy	AGRO	SCSC	2.0 overall GPA Ability to complete 15 hours of minor coursework before graduation	http://soilcrop.tamu.edu/academics_files/files/Agro%20Minor%20UPDATED.pdf	C or better in each course

Biochemistry	BICH	BCBP		Completed and approved application	
			2.0 overall GPA	http://biochemistry.tamu.edu/wp-content/uploads/sites/35/2011/09/DECLARATION-OF-MINOR-IN-BIOCHEMISTRY-2012311.pdf	C or better in each course
Bioenvironmental Sciences	BESC	PLPM	No entry requirements	Meet with your major department advisor	C or better in each course
Entomology	ENTO	ENTO	2.0 overall GPA	Completed Application	2.0 overall GPA
			Completion or in progress of taking ENTO 201 or ENTO 208 with a grade of C or better	http://entomology.tamu.edu/wp-content/uploads/sites/12/2013/11/Minor-in-Entomology-Form-FINAL.pdf	
			Ability to complete 17 hours of minor coursework before graduation		
Environmental Soil Science	ENVS	SCSC	2.0 overall GPA		C or better in each course
			Ability to complete 15 hours of minor coursework before graduation		
Extension Education	EXED	ALEC	Ability to complete 18 hours of minor coursework before graduation		C or better in each course
Financial Planning	FINP	AGEC	2.5 overall GPA		C or better in each course
			Ability to complete 18 hours of minor coursework before graduation		
			Junior/Senior classification		
Forestry	FORS	ESSM	Ability to complete 18 hours of minor coursework before graduation		C or better in each course
Genetics	GENE	BCBP	2.0 overall GPA	Completed and approved application	C or better in each course
				http://biochemistry.tamu.edu/wp-content/uploads/sites/35/2011/09/DECLARATION-OF-MINOR-IN-GENETIC1.pdf	
Horticulture	HORT	HRSC	2.0 overall GPA	Meet with student's home college or major department to declare minor	C or better in each course
International Agricultural Development	IDAG	ALEC	Meet with your major department advisor		18 hours: 3 hours from AGCJ 491; 9 hours from ALED 422, 442, ALEC 350, 450; 6 hours from upper division university level foreign language.
					IDAG advisor approved international experiences

Leadership	LDAG	ALEC	Completed or enrolled in ALED 202	Completed application	15 hour minor
			2.0 overall GPA and in good standing	http://alec.tamu.edu/academics/undergraduate/minor-in-leadership-studies-ldag/	
			Completed 75 hours or less at time of application		
			Must have a declared major		
Park & Natural Resource Management	PNRM	RPTS	Student's home college or major department advisor		C or better in each course
Plant Breeding	PLBR	SCSC	2.75 overall GPA		15 hours required
Poultry Science	POSC	POSC	2.0 overall GPA	No application required, but must get approval Department Head/Dean/Academic Advisor	C or better in each course
					Completion of POSC 201 and POSC 309
					Completion of 9 additional hours of approved POSC courses (Select from POSC 308, 313, 319, 326, 333, 406, 411, 414, 425, 427, 429; VTPB 334)
Rangeland Ecology & Management	RLEM	ESSM	Ability to complete 15 hours of minor coursework before graduation		C or better in each course
Recreation, Parks & Tourism Science	RPTS	RPTS	Meet with your major department advisor		C or better in each course
Spatial Sciences	SPSA	ESSM	Meet with your major department advisor		15 hours required
Tourism Management	TMGT	RPTS	Student's home college or major department advisor		C or better in each course
Wildlife and Fisheries Sciences	WFSC	COALS/ WFSC	Completion of BIOL 111 and 112 or BIOL 1411 and 1412 with grades of C or better, 2.0+ GPA	Meet with advisor to get signed minor requirements form, when courses are offered, etc.	C or better in each course
Youth Development	YDEV	RPTS	Student's home college or major department advisor		C or better in each course

College of Architecture

Minor Title	Minor Code	Dept Code	Requirements		
			Prerequisites	Application Process	Academic Requirements
Architectural Fabrication and Product Design	ARFB	ARCH		Application with signature http://dept.arch.tamu.edu/_common/rich-media/forms/Architectural%20Fabrication%20and%20Product%20Design.pdf	C or better in each course
Architectural Heritage Conservation	ARHC	ARCH	Overall GPA > 2.0 when entering the minor field of study	Application with signature http://dept.arch.tamu.edu/undergraduate/forms/Architecture%20Heritage%20Conservation%20Minor%20Request.pdf	C or better in each course
Art & Architectural History	AARH	ARCH		Application with signature http://dept.arch.tamu.edu/_common/rich-media/forms/ArtArchHistory%20Minor%20Application%20Form%202014_INTERACTIVE.pdf	C or better in each course
Art	ARTV	VIZA	Overall GPA > 3.0 when entering the minor field of study	Application with signature http://viz.arch.tamu.edu/media/cms_page_media/818/Art%20Minor%20Form%203.0%20GPR.pdf	C or better in each course
Facility Management	FCMG	COSC		Application with signature http://cosc.arch.tamu.edu/undergraduate/minor/New%20FCMG%20Minor%20Form.pdf	C or better in each course
Game Design and Development	GAME	VIZA	Minimum overall GPA of 3.2		C or better in each course
Global Art Design & Construction	GADC	ARCH		Application with signature There is an upper level design studio required – the prerequisite courses are restricted to majors only.	C or better in each course
Global Culture and Society	GLSC	ARCH		Application with signature	C or better in each course Requires 12 hours at a TAMU study abroad location (Italy or Costa Rica) with a required reflection
Leadership in the Design and Construction Professions	LDCP	COSC	Minimum overall GPA of 2.5	Application with signature http://cosc.arch.tamu.edu/undergraduate/minor/New%20LCDP%20Minor%20Form.pdf	C or better in each course

Sustainable Architecture & Planning	SARP	ARCH/ LAUP		Application with signature	C or better in each course
				http://dept.arch.tamu.edu/_common/rich-media/forms/Minor%20in%20sustainable%20architecture%20and%20planning%202014_1.pdf	
Urban & Regional Planning	URPL	LAUP		Application with signature	C or better in each course
				http://laup.arch.tamu.edu/academics/undergraduate/minor/	

Mays Business School

Minor Title	Minor Code	Dept Code	Requirements		
			Prerequisites	Application Process	Academic Requirements
Business	BUSI	CLBA	2.0 or better GPA Permission of student's major department	Apply in person with academic advisor in student's home college or major department; no signature from Mays Business School required to approve minor application.	C or better in each course

College of Education and Human Development

Minor Title	Minor Code	Dept Code	Requirements		
			Prerequisites	Application Process	Academic Requirements
Applied Learning-Science, Technology, Engineering and Mathematics	STEM	TLAC	2.75 or better overall GPA	Visit with Mr. Justin Smith	C or better in each course
Coaching	COAC	HLKN	2.0 overall GPA	Applications accepted twice a year Oct. 1st & March 1st; complete application; provide unofficial transcript of courses taken and currently taking; write typed (double-spaced) essay of not more than 1200 words describing why you want to student coach and include pertinent experience related to coaching; submit this with cover page with name and UIN - do not put your name on the essay itself	C or better in each course
			24 hours of undergraduate course work completed		18 hours required to complete the minor
			Successful completion of BIOL 111		
Creative Studies	CRST	EPSY	2.0 overall GPA	Complete the required minor application	C or better in each course
				http://epsy.tamu.edu/sites/epsy.tamu.edu/files/CRST%20Minor%20Form%20revised%2011-2014.pdf	15 total hours required for the minor
				And obtain a signature from Dr. Joyce Juntune or Christy Porter	6 Hours of required courses: EPSY 430 and EPSY 433
				To declare the minor, return the signed paperwork to your academic advisor who will approve the minor and add to your student account	9 hours from the following courses: ENDS 101, EPSY 431, EPSY 432, or EPSY 485
Dance	DANC	HLKN	Must have dance experience	Audition (held once a semester)	18 total hours required for the minor
Human Resource Development	HRDV	CEHD	Minimum required GPA to declare minor is a 2.5.	Completed online application and essay by deadline	C or better in each course
			Student must enroll after completing 12 hours at Texas A&M and a maximum of 75 hours total	http://eahr.tamu.edu/degrees-and-programs/human-resource-development-minor	U3 status to register for classes

Sport Management	SPMT	HLKN	2.0 overall GPA	Meet with academic advisor for the minor	C or better in each course
					15 hours required to complete the minor
					Cannot take writing intensive section of SPMT 482 to satisfy the University Writing Requirement
Technology Management	TCMG	EAHR	2.5 overall GPA	Meet with academic advisor for the minor	C or better in each course
			Student must enroll after completing 12 hours at Texas A&M and a maximum of 75 hours total		Achieve overall GPA of 2.5 in approved minor coursework

College of Engineering

Minor Title	Minor Code	Dept Code	Requirements		
			Prerequisites	Application Process	Academic Requirements
Aerospace Engineering	AERO	AERO	Major GPA and Overall GPA > 2.5 when entering the minor field of study	Completed application	C or better in each course
			Completion of the following courses with a C or better: AERO 201, AERO 210, AERO 212, AERO 214, AERO 220, MATH 308 or equivalents	http://engineering.tamu.edu/media/1430180/2014-minor-in-aero.pdf	
Analysis, Design, and Management	ADME	MEEN	C or better in all prerequisite courses	Meet with MEEN academic advisor	3.5 overall GPA
Biomedical Engineering	BMEN	BMEN	In good academic standing within major department	Meet with BMEN academic advisor	2.0 overall GPA
Chemical Engineering	CHEN	CHEN	Minimum GPA of 3.0 with at least 30 hours of Texas A&M credits completed		2.0 overall GPA
Computer Science	CPSC	CSCE	Previous programming class (1 semester college or 1 year high school) required for CSCE 121	Application required at the advising office for Computer Science and Engineering after completing lower-division classes listed above	Completion of CSCE 121, CSCE 221, CSCE 222, CSCE 312
			Completion of the lower-level courses in the minor (CSCE 121, CSCE 221, CSCE 222)		Completion of either CSCE 313 or CSCE 314
			Completion of prerequisite classes for the minor's classes (MATH 151, MATH 152)		C or better required in each course
			GPA of 2.75 or better in these classes and TAMU GPA of 2.75 or better		Completion of lower-level courses with GPA of 2.75 or better required before application for the minor
			Note that CSCE 222 is a co-requisite for CSCE 221		
Control of Mechanical Systems	CTMS	MEEN	Required and elective courses must be satisfied with a grade of C or better even if not counting toward degree or minor		3.5 overall GPA
Cybersecurity	CYBR	CLEN	Have a minimum overall GPA of 2.5		2.5 overall GPA
					C or bettter in each course
Design and Simulation of Mechanical Systems	DSMS	MEEN	Required and elective courses must be satisfied with a grade of C or better even if not counting toward degree or minor		3.5 overall GPA

Electrical Engineering	ELEN	ECEN	Minimum of 2.75 overall GPA	Complete application and meet with an academic advisor	C or bettter in each course
			Completion of PHYS 208 and MATH 308	http://engineering.tamu.edu/electrical/academics/degrees/ee/minor	
			**Restrictions: Students majoring in Computer Engineering will not be permitted to minor in Electrical Engineering since the coursework prescribed for the minor is required coursework for the Computer Engineering degree.*		
Embedded Systems Integration	EMSI	ETID		Meet with your major department advisor	C or bettter in each course
Engineering Project Management	ENPM	CLEN	Minimum overall GPA of 2.5		C or better in each course
					2.5 overall GPA in minor coursework
Game Design and Development	GAME	CSCE	Minimum overall GPA of 3.2		C or better in each course
Industrial Engineering	INEN	ISEN	Upper level status if in Engineering		C or better in each course
			2.5 Overall GPA		
			Completion of MATH 152 (or MATH 172) and CSCE 206 (or CSCE 111 or 121).		
			Talk to ISEN academic advisor and complete the application.		
Materials Science and Engineering Minor	MSEN	MSEN	Be in good academic standing within major department (GPA of 2.5 or higher).	Meet with your major department advisor before submitting application	C or better in each course
				https://engineering.tamu.edu/media/2655791/msen-minor-application.pdf	2.5 overall GPA in minor coursework
Nuclear Engineering	NUEN	NUEN	NUEN 201 or PHYS 222 or PHYS 309	Approval of Undergraduate Advisor	NUEN 301
					NUEN 302
					NUEN 303
					NUEN 304
					NUEN 405
					C or better in each course

Petroleum Engineering	PETE	ENGR	Minimum GPA of 3.000 with at least 30 hours of Texas A&M resident credit	Complete PETE Minor Requirements form	Students must meet pre-requisites and co-requisites for each of these courses before enrolling in this 18 credit hour minor
			One course in each of the engineering science categories listed below (or an approved equivalent) is required to enroll in PETE 325 and complete the minor (each course completed with grade of C or better):	Attach approved degree plan which incorporates all prerequisite and minor courses	Minor courses required:
			Physics: PHYS 208	PETE Minor Requirements forms are available from PETE Undergraduate advisors	GEOL 104
			Mathematics: Math 308		PETE 225
			Engineering Mechanics: ENGR 221, ENGR 211, MEEN 221 or AERO 211		PETE 311
			Engineering Thermodynamics: ENGR 212, MEEN 315, CHEN 205, or AERO 212		PETE 310
			Mechanics of Materials/Properties of Materials: ENGR 213, CVEN 305, CVEN 306, MEEN 222, CHEN 313, or AERO 213		PETE 325
			Fluid Mechanics/Continuum Mechanics: ENGR 214, PETE 314, MEEN 344, CHEN 304, or AERO 214.		Students who have completed the five core courses may enroll in any PETE course for which course pre-requisites and co-requisites have been met
Radiological Health Engineering	RHEN	NUEN	NUEN 201 or PHYS 222 or PHYS 309	Approval of Undergraduate Advisor	C or better in each course

College of Geosciences

Minor Title	Minor Code	Dept Code	Requirements		
			Prerequisites	Application Process	Academic Requirements
Climate Change	CLMC	CLGE	2.0 GPA overall		2.0 overall GPA in minor courses
Earth Sciences	ESCI	CLGE	2.0 GPA overall	Schedule an appointment to meet with the ENVP Academic Advisor for minor approval	2.0 overall GPA in minor courses
			Ability to complete 15 hours of approved minor coursework before graduation		
Environmental Geosciences	ENVG	CLGE	2.0 GPA overall	Schedule an appointment to meet with the ENVP Academic Advisor for minor approval	2.0 overall GPA in minor courses
			Ability to complete 15 hours of approved minor coursework before graduation		
Geographic Information Science and Technology	GIST	GEOG	2.0 GPA overall	Schedule an appointment to meet with the GEOG Academic Advisor for minor approval.	2.0 overall GPA in minor courses
			Ability to complete 15 hours of approved minor coursework before graduation		
Geography	GEOG	GEOG	2.0 GPA overall	Schedule an appointment to meet with the GEOG Academic Advisor for minor approval	2.0 overall GPA in minor courses
			Ability to complete 16 hours of approved minor coursework before graduation		
Geology	GEOL	GEPL	2.0 GPA overall	Schedule an appointment to meet with the GEOL Academic Advisor for minor approval	2.0 overall GPA in minor courses
			Ability to complete 15 hours of approved minor coursework before graduation		
Geophysics	GEOP	GEPL	2.0 GPA overall	Schedule an appointment to meet with the GEOP Academic Advisor for minor approval	2.0 overall GPA in minor courses
			Ability to complete 15 hours of approved minor coursework before graduation		
Global Culture and Society	GLSC	CLGE	Application with signature		C or better in each course
					Requires 12 hours at a TAMU study abroad location (Italy or Costa Rica) with a required reflection

Meteorology	METR	ATMO	2.0 GPA overall	Schedule an appointment to meet with the ATMO Academic Advisor for minor approval	2.0 overall GPA in minor courses
			Ability to complete 15 hours of approved minor coursework before graduation		
Oceanography	OCNG	OCNG	2.0 GPA overall	Schedule an appointment to meet with the OCNG Academic Advisor for minor approval	2.0 overall GPA in minor courses
			Ability to complete 15 hours of approved minor coursework before graduation		

College of Liberal Arts

Minor Title	Minor Code	Dept Code	Requirements		
			Prerequisites	Application Process	Academic Requirements
Africana Studies	AFST	CLLA	2.0 GPA	Complete the minor request form and meet with the Director of African Studies, Dr. Violet Johnson.	2.0 GPA
			Less than 90 hours completed		C or better in each course
Anthropology	ANTH	ANTH	2.0 GPA	Apply in person with Anthropology Advisor	C or better in each course
			Less than 90 hours completed		
Arabic Studies	ARAB	INTS	2.0 GPA in minor applicable coursework	Apply in person with International Studies Advisor	2.0 GPA
			Less than 90 hours completed		C or better in each course
Asian Studies	ASNS	INTS	2.0 GPA in minor applicable coursework	Apply in person with International Studies Advisor	2.0 GPA
			Less than 90 hours completed		C or better in each course
Chinese	CHIN	INTS	Less than 90 hours completed	Apply in person with International Studies Advisor	2.0 GPA
					C or better in each course
Classical Studies	CLAS	INTS	Less than 90 hours completed	Apply in person with International Studies Advisor	2.0 GPA
					C or better in each course
Communication	COMM	COMM	None	Meet with a COMM advisor	C or better in each course
				Obtain signed COMM minor paperwork from COMM advisor	3 hours COMM 200 level
				Take signed COMM minor paperwork to your advisor	3 hours COMM 301 or 305
					6 hours COMM 300-499
					3 hours COMM 200-499
Comparative Cultural Studies—International	CCIS	CLLA	Completion of any minor applicable course with a grade of C or better	See Undergraduate Programs Advisor	2.0 GPA
			2.0 cumulative GPA		C or better in each course
			Less than 90 hours completed		
Comparative Cultural Studies—United States	CCUS	CLLA	Completion of any minor applicable course with a grade of C or better	See Undergraduate Programs Advisor	2.0 GPA
			2.0 cumulative GPA		C or better in each course
			Less than 90 hours completed		

Economics	ECON	CLLA	2.0 cumulative GPA	Apply in person with Economics Advisor	C or better in each course
			Less than 90 hours completed		ECON 202
					ECON 203
					ECON 323
					6 hours of upper level from ECMT 463, ECMT 475, or ECON 300-499 (except ECON 322-323)
English	ENGL	ENGL	Less than 75 hours completed	Apply in person with English Advisor	C or better in each course
					Minimum of 9 hours completed at the upper division
					Completion of 18 hours of coursework
Film Studies	FILM	CLLA	2.0 GPA	Complete the minor request form and meet with the Director of Film Studies, Dan Humphrey	2.0 GPA
			Less than 90 hours completed		C or better in each course
French	FREN	INTS	Less than 90 hours completed	Apply in person with International Studies Advisor	2.0 GPA
					C or better in each course
German	GERM	INTS	Less than 90 hours completed	Apply in person with International Studies Advisor	2.0 GPA
					C or better in each course
Global Culture and Society	GLSC	CLLA		Application with signature	C or better in each course
					This is a study abroad minor that requires 12 hours at a TAMU study abroad location (Italy or Costa Rica) with a required reflection
Hispanic Studies Community Engagement	HPCE	HISP	2.0 cumulative GPA	Completed application	C or better in each course
			Less than 75 hours complete		
History	HIST	HIST	None	Apply in person with History Advisor	6 hours of 100-200 level History courses
					9 hours of 300-400 level History classes
Italian	ITAL	INTS	Less than 90 hours completed	Apply with International Studies Advisor	2.0 GPA
					C or better in each course
Japanese	JAPN	INTS	Less than 90 hours completed	Apply in person with International Studies Advisor	2.0 GPA
					C or better in each course

Journalism	JOUR	CLLA	2.5 overall GPA		C or better in each course
			Completion of JOUR 102 with a grade of B or better		Completion of 18 hours of minor coursework
			At least 600 SAT Verbal or 25 ACT English		
Latina/o and Mexican-American Studies	LMAS	CLLA	Contact the sociology department advisors or the advisor for your major department		C or better in each course
					Minimum of 9 hours completed at the upper division
Leadership	LDLA	CLLA	2.0 cumulative GPA	Set up an appointment with an advisor in the Undergraduate Programs Office.	C or better in each course
			Less than 90 hours completed		Minimum of 9 hours completed at the upper division
					Completion of 15 hours of minor coursework
Liberal Arts Honors	LBAH	CLLA		Meet with your major department advisor	B or better in each course
					3.5 GPA or better by completion of minor
Museum Studies	MUST	ANTH		Meet with your major department advisor	C or better in each course
					Minimum of 6 hours completed at the upper division
					Completion of 15 hours of coursework
Performance Studies	PERF	PRFM		Meet with your major department advisor	2.7 overall GPA
Performance Technology	PTCH	PRFM	Completion of PERF 202 with a grade of C or better	See Performance Studies Advisor	C or better in each course
			2.0 cumulative GPA		Minimum of 6 hours completed at the upper division
			Less than 90 hours completed		Completion of 18 hours of coursework
Philosophy	PHIL	PHIL	2.0 GPA in any Philosophy coursework	Set up an appointment with Philosophy department	C or better in each course
			Less than 90 hours completed		Minimum of 9 hours completed at the upper division
					Completion of 15 hours of coursework

Psychology	PSYC	PSYC	PSYC 107 completed with a grade of C or better	See Department of Psychology Academic Advisors	C or better in each course
			2.0 cumulative GPA		Minimum of 9 hours completed at the upper division at Texas A&M
			Less than 90 hours completed		Completion of 15 hours of coursework
Religious Studies	RELS	CLLA	2.0 cumulative GPA	Set up an appointment with Dr. Donnalee Dox (dox@tamu.edu)	C or better in each course
			Less than 90 hours completed		Minimum of 9 hours completed at the upper division
					Completion of 18 hours of coursework
Russian	RUSS	INTS	Less than 90 hours completed	Apply in person with International Studies Advisor	2.0 GPA
					C or better in each course
Sociology	SOCI	SOCI	Completion of any SOCI course	See Sociology Advisor to obtain a minor approval form	C or better in each course
			2.0 GPA in all SOCI coursework		Minimum of 9 hours completed at the upper division
			2.0 cumulative GPA		Completion of 15 hours of coursework
			Less than 90 hours completed		
Spanish	SPAN	HISP	Completion of SPAN 201 and SPAN 202 with a grade of C or better	Completed application	C or better in each course
			2.0 cumulative GPA		Minimum of 9 hours completed at the upper division
			Less than 75 hours completed		Completion of 18 hours of coursework
Women's and Gender Studies	WGST	CLLA	Completion of WGST 200 with a grade of C or better	Completed application	C or better in each course
			2.0 cumulative GPA		Minimum of 9 hours completed at the upper division
			Less than 90 hours completed		Completion of 18 hours of coursework before graduation

School of Military Science

Minor Title	Minor Code	Dept Code	Requirements		
			Prerequisites	Application Process	Academic Requirements
				Approval from the Assistant Commandant for Administration	C or better in all courses
					18 total hours. Minimum of 12 hours are 300/400 level
Military Studies	MLST	MLSC			Nine hours from: NVSC 203, 302, 303, 401, 402, 410; AERS 303, 304, 403, 404; MLSC 321, 322, 421, 422
					Nine hours from: CLAS 371; ENGL 335; GEOG 320, 327, 332, 352, 361, 390, 398, 401, 420, 475; GEOL 352; HIST 230, 232, 234, 337, 348, 349, 350, 353, 355, 357, 368, 37, 372, 373, 403, 405, 406, 412, 443, 444, 446; PHIL 315, 331, 332, 381; POLS 312, 326, 328, 329, 331, 333, 335, 338, 368, 413, 415, 429, 432, 439, 447; SOCI 312, 313, 317, 412, 423; SPSC 398

School of Public Health

Minor Title	Minor Code	Dept Code	Requirements		
			Prerequisites	Application Process	Academic Requirements
Occupational Safety and Health	OCSH	CLPH	U2 or higher classification	Completed minor form in the Public Health Studies Advising Office	2.0 or better GPA in all courses
				https://sph.tamhsc.edu/eoh/docs/osh-minor-application.pdf	
Public Health	PHLT	CLPH	Minimum 2.0 TAMU GPA	Completed minor form in the Public Health Studies Advising Office	2.0 or better GPA in all courses
			U2 or higher classification	https://sph.tamhsc.edu/phs/docs/application-for-minor.pdf	

College of Science

Minor Title	Minor Code	Dept Code	Requirements		
			Prerequisites	Application Process	Academic Requirements
Astrophysics	ASTP	PHYS		Meet with your major department advisor	2.0 minimum area GPA
Bioinformatics	BIOI	BIOL		Meet with your major department advisor	C or better in each course
Biology	BIOL	BIOL	Completion of BIOL 111 & BIOL 112 with a grade of C or better	Completed Declaration of Minor form	C average in all courses taken for a minor in Biology
				http://www.bio.tamu.edu/wp-content/uploads/2015/11/Biology-Minor-Requirements.pdf	
Chemistry	CHEM	CHEM	Completion of CHEM 101/111 or CHEM 107/117 and CHEM 102/112	Completed Declaration of Minor form	C average in all courses taken for a minor in Chemistry
				http://www.chem.tamu.edu/undergraduate/minor.pdf	
Mathematics	MATH	MATH	No prerequisites	Meet with your major department advisor	C or better in each course
Neuroscience	NRSC	CLSC	No more than 95 completed hours	Schedule appointment with NRSC Academic Advisor to complete application	C or better in each course
				http://tamin.tamu.edu/undergrad/minor	A total of up to 6 hours of directed research (485/491) may be counted towards the Minor
					Research/Directed Studies must be conducted with a member of the Faculty of Neuroscience
					For Psychology students, no more than 6 hours can be counted towards both the Psychology major and the minor
Physics	PHYS	PHYS	Completion of PHYS 218 and 208 with a C or better	Completed Approval of Minor Field of Study Form	C or better in each course
Statistics	STAT	STAT	C or better in MATH 151 and 152		C or better in each course

College of Veterinary Medicine and Biomedical Sciences

Minor Title	Minor Code	Dept Code	Requirements		
			Prerequisites	Application Process	Academic Requirements
Biomedical Sciences	BIMS	CLVM	Overall GPA of 2.0 or higher	After consultation with the student's major advisor, students will apply in the BIMS department and have the minor form signed by the Assistant Dean of BIMS.	Must maintain a 2.0 overall GPA in minor courses
			Must be declared before studen: has 75 total hours passed	http://vetmed.tamu.edu/bims/current/bims-minor	

BAEN and AGSM Advising Procedures

The BAEN Departmental Advising Procedures are likely to change during the 2020-2021 academic year. We have formerly required faculty advising but are looking to transfer sole course advising to the undergraduate academic advisor. Please read your emails and sign up for Remind.com Text Messaging to know about our upcoming advising procedures.

1. Ashlea Schroeder is the departmental undergraduate academic advisor handling academic records.
2. Schedule all appointments with the undergraduate advisor using NAVIGATE in the Howdy portal.
3. Advisors are just that, ADVISORS. They will help you keep on track, but you need to be in charge of knowing what you need to take. Degree plans can be found at http://baen.tamu.edu/academics/undergraduates/degree-programs/
4. RESPECT your advisor's time. Make sure to show up for your appointments and show up ON TIME.
5. Your date and time for registration will be emailed to you via the Registrar's Office and will also be posted on your Howdy account. You need to be unblocked prior to that date to register. DO NOT wait until the last minute to meet with your advisor. Students not registered during their designated time will have to wait until open registration to enroll in classes.
6. You will be blocked for registration every semester until you meet with your advisor.

DEPARTMENT OF BIOLOGICAL AND AGRICULTURAL ENGINEERING
BLOCK/DISMISSAL & SCHOLASTIC PROBATION POLICY
May 2019

BLOCK/DISMISSAL

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

Students in the BAEN department are allowed to take a course no more than three (3) times. If you are unable to master the course content with the grade required after the third attempt, you will be blocked from further enrollment in the department. Students may also be blocked if they repeatedly fail to meet satisfactory academic progress.

Students in the BAEN department are allowed to be on probation no more than three (3) times during their academic career in BAEN or AGSM. This includes probation of a semester GPA below a 2.0 or overall GPA below a 2.0, and this does not include consecutive semesters. If a student in the College of Agriculture and Life Sciences finds themselves on probation for a fourth semester, they will be dismissed from the major that they are currently in (see AGLS Probation policy on https://aglifesciences.tamu.edu/undergraduate-academic-probation-dismissal-policy/

Depending on the circumstances of the block, students 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 a **Permanent Block**. Appeals are carefully considered taking into account such circumstances as, but not limited to:

- How great the deficiency is.
- A student's lengthy illness.
- A death or major illness of an immediate family member. Immediate family members are defined in the Texas A&M University Student Rules 7.1.2. http://student-rules.tamu.edu/rule07
- 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 or her poor academic performance. This must be sent to the appropriate program coordinator in the Department of Biological and Agricultural Engineering.

Should the appeal be accepted, the student will be sent a "Scholastic Probation" letter (see the Scholastic Probation portion of this document).

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 or during any given semester will result in a Block/Dismissal letter (see the Block/Dismissal portion of this document).

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

- Make up the grade point deficiency that is required in their 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.

NOTES:

1. **Students who fail to meet ALL the requirements stipulated above will be blocked from further enrollment in the Department of Biological and Agricultural Engineering.**
2. **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 a 2.0.**
3. **Students are allowed to appeal a Block/Dismissal ONE TIME; we believe in second chances, but not third, forth, etc.**
4. 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.
5. TAMU Student Rules Sections 12.1 through 12.1.4 defines scholastic deficiency, and 12.2 through 12.2.4 provide University rules regarding students who are scholastically deficient. http://student-rules.tamu.edu/rule12
6. For information concerning changing majors at TAMU, contact an advisor in the department you are interested in **transferring to**. Contact information can be found on the individual department's website.

AGLS Undergraduate Academic Probation & Dismissal Policy

According to student rule 12.1 (http://student-rules.tamu.edu/rule12/), a student is scholastically deficient when:

- *1.1 His or her semester grade point ratio is less than 2.00; or*
- *1.2 His or her cumulative grade point ratio is less than 2.00; or*
- *1.3 The cumulative grade point ratio in his or her major field of study is below a 2.00; or*
- *1.4 He or she is not meeting college and/or major course of study grade point requirements.*

Disclaimer: The below College of Agriculture and Life Sciences policies are supplementary to any policy set forth by Texas A&M University, the Texas A&M System, or state or federal statutes. Departments within the College of Agriculture and Life Sciences are permitted to have more stringent requirements to determine scholastic deficiency within their majors.

PROCEDURES AND RESPONSIBILITIES

The College of Agriculture and Life Sciences policy defines scholastic deficiency as a term or cumulative GPA below a 2.0. Students who are scholastically deficient are either placed on probation, dismissed from their major, or suspended by the university.

Cumulative GPA below 2.0

- 1st Semester < 2.0:
  - Student is placed on academic probation
  - Blocked from course registration until meeting, or other requirement is met with department (i.e. probation contract/acknowledgement is signed).
  - If requirement is not met by the add/drop deadline of the term, student's schedule will be dropped and/or blocked from continuous registration
- 2nd Semester < 2.0 and previous academic probation terms are NOT met:
  - Student is dismissed from major with the option to appeal for continued enrollment
  - If appeal is granted, student is placed on final probation and will NOT be allowed to pre-register for following term until the terms of probation have been met
- 2nd Semester < 2.0 and previous academic probation terms ARE met:
  - Student will continue with final academic probation

- 3rd Semester < 2.0:
  - Student will be dismissed from major with no option to appeal
  - Dismissed students will be eligible to apply for readmission at a date to be determined by the department
- If a student meets terms of probation and falls below a 2.0 overall GPA in a subsequent semester, the student will be dismissed from the major with the option to appeal.

Term GPA below 2.0

- 1st Term GPA < 2.0:
  - Student will be placed on term academic probation and will receive a letter and/or email notifying them of this status
  - Student will be blocked from registration until meeting, or other requirement is met with department (i.e. probation contract/acknowledgement is signed). Student could be **recommended** to utilize various student services on campus. These services can include, but are not limited to: Academic Success Center, Student Counseling Services, Student Disability Services, Writing Center, Veteran Resource and Support Center, Student Athlete Services, etc.
- 2nd Term GPA < 2.0:
  - Student will be dismissed from major with an option to appeal
  - If appeal is granted, student will be placed on final academic probation
  - Student will be **required** to utilize various student services on campus. These services can include, but are not limited to: Academic Success Center, Student Counseling Services, Student Disability Services, Writing Center, Veteran Resource and Support Center, Student Athlete Services, etc.
- 3rd Term GPA < 2.0:
  - Student will be dismissed from their major with no option to appeal
  - Dismissed students will be eligible to apply for readmission at a date to be determined by the department
- Term GPA's do not need to be consecutive to determine probation and/or dismissal.

BIOLOGICAL & AGRICULTURAL ENGINEERING DEPARTMENT

TEXAS A&M UNIVERSITY

Academic/Scholastic Probation Appeal Form

In the College of Agriculture and Life Sciences, the academic departments are the primary authority with respect to departmental policies and procedures regarding their curriculum. Further, departmental academic advisors are knowledgeable about Departmental-level, University-level and College-level policies and procedures governing academics and are charged with enforcing these policies.

In regards to academic/scholastic probation within the BAEN department, students can be placed on probation (no appeal accepted/required), be blocked from continuous enrollment with the option to appeal, or permanently blocked from enrollment in the department without the option to appeal. If the student is given the option to appeal a decision of "blocked/dismissed", then the student shall appeal to program coordinator of the major in which they are housed (BAEN or AGSM). If the program coordinator denies the appeal, then students may refer to student rules for more information regarding the scholastic/probation appeals process: http://student-rules.tamu.edu/.

Directions: To appeal a decision of block/dismissal the student must first complete the form below, which requires the signature of the academic advisor before submission to the program coordinator. Responses to the questions below should be typed on a separate document and addressed to either Dr. Patricia Smith (BAEN) or Mr. Russell McGee (AGSM). If applicable, provide copies of relevant supporting documents to help justify the request. Once complete, submit the form, typed justification page and relevant supporting documents to Scoates 303H or via email to aschroeder@tamu.edu.

Notification: Appeal decisions will be communicated to your official TAMU email address.

Full Name: _____ UIN: _____

Major: _____ Classification: _____

Phone Number: _____ Email Address: _____

- List the decision you are appealing (attach documentation if applicable).
- Why do you believe this decision should not apply to you?
- Explain any extenuating circumstances meriting this request and discuss how you plan to make changes to ensure that you are on a path to a successful academic future (attach documentation if applicable).

---

1. Student Signature: _____ Date: _____

2. Academic Advisor Signature*: _____ Date: _____
   **signature indicates that you are aware of the requested appeal*

3. Program Coordinator Recommendation (check one): Approve _____ Deny _____

   Program Coordinator signature: _____ Date: _____

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. Kim Dooley, 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.

How to Calculate Grade Point Deficits

The University uses variance points to determine whether or not 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. In order to remain in good academic standing, students must earn at least a "0" 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

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

The student in the table above would be on C+1 probation because they are 1 grade point BELOW a 2.0 GPA.

Students on semester probation must earn ≥ 2.0 GPA the next semester.

NOTES:

GETTING INVOLVED

GETTING INVOLVED

Participating in student organizations gives you an opportunity to network, meet new people who have similar interests and career goals, explore career opportunities, learn and practice leadership skills, and boost your resume.

Being involved in student organizations also gives students the opportunity to make an impact, and leave their mark on the Department of Biological and Agricultural Engineering, the College of Agriculture and Life Sciences, as well as Texas A&M University.

There are over 800 student organizations on campus. To find one that fits your interests visit http://studentactivities.tamu.edu/online/search/index.

Students interested in departmental scholarships should begin their club involvement in the Department of Biological and Agricultural Engineering.

STUDENT ORGANIZATIONS AND HONOR SOCITIES

AMERICAN SOCIETY OF AGRICULTURAL AND BIOLOGICAL ENGINEERS (ASABE)

The Texas A&M ASABE is dedicated to serving the premier pre-professional engineers in the fields of Biological and Agricultural Engineering and Agricultural Systems Management with a means for developing leadership, making networking connections, and socializing with others who share their passions. For more information visit https://stuactonline.tamu.edu/app/organization/profile/public/id/369.

AGSM STUDENT CLUB

The Agricultural Systems Management club is 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 and community service and involvement. The AGSM club is a wonderful place to start building a strong professional background in the technical management field. For more information visit https://stuactonline.tamu.edu/app/organization/profile/public/id/386.

TEXAS A&M AGGIE PULLERS

Aggie Pullers is 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 the box to solve problems. The more diverse Aggie Pullers becomes the better the Club becomes. 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 after Texas A&M University. For more information visit https://stuactonline.tamu.edu/app/organization/profile/public/id/1253

COALS STUDENT COUNCIL

The COALS 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 in 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. For more information visit http://coalscouncil.wixsite.com/tamucoalscouncil.

ALPHA EPSILON

Alpha Epsilon is the national honor society of Biological and Agricultural Engineering. The object of the society it 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 of the junior class, top third of the senior class, and graduate students who have completed 12 hours with a grade-point average of 3.3 or greater.

HIGH IMPACT ACTIVITIES

HIGH IMPACT ACTIVITIES

High Impact Activities are anything that involves you, the student, outside the classroom such as study abroad, internships, research, clubs, organizations and more. Employers today are seeking graduates with at least two "high impact activities" listed on his or her resume so the time to get involved is NOW! Below is a list of some of the things you can become involved in during your undergraduate career.

STUDY ABROAD

Please refer to http://studyabroadportal.tamu.edu/index.cfm?FuseAction=Programs.AdvancedSearch to search for programs offered and then make an appointment to visit with the counselors in the Study Abroad Office on the First Floor of the Pavillion, 979-845-0544. Once you have visited the Study Abroad Office, talk with one of the Department of Biological and Agricultural Engineering advisors about how the program you are interested might work with your degree plan.

College of Engineering offers several types of programs to fit various student needs. While searching for the program that interests you, you should consider things such as - your language background, country/region of interest, cultural interests, personal interests, your degree plan, whether you would like to go in a group (i.e. Faculty-Led) or on your own (i.e. Independent or Reciprocal Exchange), and whether you wish to go for a full semester or a summer semester.

HALLIBURTON ENGINEERING GLOBAL PROGRAMS
https://engineering.tamu.edu/academics/global/index.html

BELGIUM – BAEN Study Abroad program SSII each year

The Belgium Environmental Science and Engineering Study Abroad Program provides undergraduate engineering and non-engineering students with an opportunity gain international experience and at the same time take two Texas A&M University courses for six hours of credit.
Courses will be taught at the Katholieke University of Leuven, in Leuven, Belgium, which is only 30 km east of Brussels. Classes are taught on Tuesday and Wednesday with field trips on Thursday. The field trips are day-trips to visit interesting water and wastewater projects unique to Europe. This schedule provides students with 4-day weekends to travel and explore Belgium and/or other countries. Belgium is centrally located in Western Europe with quick and easy access to the Netherlands, France, Germany, Luxemburg and England. For more information visit
https://engineering.tamu.edu/academics/global/opportunities-abroad/opportunities-by-department/biological-agricultural-engineering.html

INTERNSHIPS

The students in the Department of Biological and Agricultural Engineering are in high demand. Often time employers contact our office looking for students that can fill vital internship roles in their companies. Employers are seeking students who have participated in at least one, preferably two, internship during his or her undergraduate career. **If you are interested in taking part in an internship or need help looking for an internship opportunity please see Ashlea Schroeder for details or visit http://careercenter.tamu.edu/ for more information.** You can also contact the Career Services representative for the College of Agriculture and Life Sciences, Whitney Hinze, at 979.845.5596.

COMPETITIONS

TEXAS A&M AGGIE PULLERS

It's a design competition like no other! While similar events focus on technical skill and innovation, the ASABE ¼-Scale Tractor Student Design Competition also demands that participants analyze market factors, document their development and test efforts, and sell the merits of their product-just as an engineering team would in the workplace. The contest has four components: written design report, team presentation, static design judging, and performance-the last element comprising a multistage tractor pull. Visit http://aggiepullers.tamu.edu for more information

ROBOTICS

Every summer at the ASABE international meeting, student sections of ASABE from universities all over the country come together and solve Agricultural Engineering problems using Robotics. Here at Texas A&M, we are the Aggiebots and we use everything from micro-controllers and servos to metal work and 3D-printing as tools to build and program an autonomous robot. If you like electronics or want more experience in programming or robotics, this is the competition for you!

MISCELLANEOUS

There are always miscellaneous paper competitions that you as a student can become involved with along with various competitions on campus such as AggiE-Challenge. For more information regarding these opportunities, please speak with Ashlea Schroeder or your professors.

RESEARCH

Students are encouraged to begin seeking research opportunities after their first or second semesters at Texas A&M University. Students are eligible to participate in BAEN 491 (departmental research), UGST 491 (university honors research), or ENGR 485/489/491 (AggiE-Challenge).
https://engineering.tamu.edu/academics/eh/program/baen.html - information about BAEN honors
https://engineering.tamu.edu/academics/aggie-challenge/index.html - information for AggiE-Challenge
https://engineering.tamu.edu/admissions-and-aid/undergraduate-summer-research-grants/index.html - information regarding undergraduate summer research grants
http://baen.tamu.edu/faculty/ - BAEN departmental professors and their areas of specializations
https://honorsprograms.tamu.edu/ - information regarding honors and u-grad research

STAY CONNECTED

The best way to keep up with new opportunities is to stay connected. The department has both a Facebook and Twitter page. There is also a weekly newsletter emailed to students with news and updates. It is HIGHLY recommended that you look at and read the different forms of communication that are sent to all students as this is the only way to know what is happening in the department, college and community.

FACEBOOK

TWITTER

BAEN HOME

SCHOLARSHIPS

THE DEPARTMENT OF BIOLOGICAL AND AGRICULTURAL ENGINEERING SCHOLARSHIP COMMITTEE GIVES MORE WEIGHT IN THEIR RANKINGS TO STUDENTS WHO ARE ACTIVE IN DEPARTMENTAL STUDENT ORGANIZATIONS (ASABE, AGSM, Aggie Pullers, etc).

The criterion for each scholarship offered by the Department of Biological and Agricultural Engineering varies widely. **In addition to grades, extracurricular requirements, and in some cases financial need, some scholarships require students to be from a particular area of the State, have a particular career interest, etc.**

Applications are available online through our own departmental scholarship application at http://baen.tamu.edu/academics/undergraduates/scholarships/ beginning February 1. The deadline for submitting an application is approximately the first Friday in March. You will need to select the link that says "Continuing" students. For more information regarding departmental scholarships contact Ashlea Schroeder, 979-845-0609, Scoates Hall, 303H.

CERTIFICATE PROGRAMS

Texas A&M University offers a variety of certification programs. Students who pursue any certification program must complete all requirements for the specific program PRIOR to graduation. Upon completion of the certificate requirements, the title of the certificate program will be added to the student's official transcript. For more information, please refer to the links under the certificate titles.

https://engineering.tamu.edu/academics/certificates/index.html

ENERGY ENGINEERING

http://engineering.tamu.edu/academics/certificates/energy
For more information, please contact Cathy Silva, Director Undergraduate Advising, PETE
cathy.sliva@tamu.edu (open to engineering majors)

SAFTEY ENGINEERING

http://engineering.tamu.edu/academics/certificates/safety
For more information, please contact Valerie Green, Assistant Director at 979-845-3489 or val-green@tamu.edu (open to engineering majors)

ENGINEERING THERAPEUTICS MANUFACTURING

http://engineering.tamu.edu/academics/certificates/engineering-therapeutics-manufacturing
For more information, please contact Katherine Toback, Asst. Director Advising Services, CHEN
ktoback@tamu.edu (open to engineering majors)

INTERNATIONAL ENGINEERING

http://engineering.tamu.edu/academics/certificates/international-engineering
For more information, please contact Misty Davis, EASA
mrjdavis@tamu.edu (open to engineering majors)

ENERGY SYSTEMS MANAGEMENT

http://engineering.tamu.edu/academics/certificates/engineering-systems
For more information, please contact Dr. Andy Johnson, Associate Professor, ISEN
ajohnson@tamu.edu (open to engineering majors)

ZACHRY LEADERSHIP PROGRAM

http://engineering.tamu.edu/academics/certificates/zachry-leadership-program
For more information, please contact Seth Sullivan, Director, Zachry Leadership Program
Seth.sullivan@tamu.edu (open to engineering majors)

BEING SUCCESSFUL

PROFESSIONAL DEVELOPMENT

CAREER FAIRS: The College of Agriculture and Life Sciences offers a career fair, which occur twice a year: https://aglifesciences.tamu.edu/aceday/. The College of Engineering also hosts a career fair each semester: https://careerfair.sec.tamu.edu/career-fair/companies/fair-information/current-fair

CAREER CENTER: The Career Center arranges employment interview schedules with hundreds of companies every year AND has a comprehensive career education and resource library. The College of Agriculture and Life Sciences has its very own Career Center Representative who will be happy to help with job and internship searches, interviewing tips, resume critiquing, etc. The department's contact can be reached at 979-845-3712.

OFFICE OF PROFESSIONAL SCHOOL ADVISING (OPSA): The Office of Professional School Advising (OPSA) is here to help students with anything related to the medical, veterinary, law, dental, graduate, and allied health professions. For more information contact OPSA, 209 Koldus, 979-847-8938. https://opsa.tamu.edu/Contact-Us/

BEING SUCCESSFUL

TAMU WRITING CENTER

The mission of the University Writing Center is to support writing and public speaking for graduate and undergraduate students across the university, with particular emphasis on supporting W and C courses in the undergraduate curriculum. We provide specialized programs and services to achieve this end.

- We provide students with one-to-one consulting sessions and other resources such as online handouts and workshops on writing and speaking.
- We assist faculty in developing writing and oral communication intensive courses.

More information regarding the TAMU writing center can be found at http://writingcenter.tamu.edu/.

ACADEMIC SUCCESS CENTER

A truly great university provides the means for its students to graduate in a reasonable amount of time and without a mountain of debt. The Academic Success Center's mission is to help all Aggies enhance their academic performance. The Academic Success Center is a collaboration between Academic Affairs and Student Affairs. Our holistic approach helps students identify roadblocks to academic success and ensures that all students have access to comprehensive resources.

Every Aggie is different, so our programming is designed to identify and address individual needs. Students participate in an initial online learning skills assessment to ensure that they pursue the right track. Scholastic performance specialists help each student develop an individualized plan that incorporates campus academic support services. Academic coaching helps students accomplish their plans and chart their progress. The Academic Success Center also provides targeted workshops, discussion groups, and other events to help students identify and access the information and skills they need to succeed.

More information regarding the TAMU Academic Success Center can be found at http://successcenter.tamu.edu/

TUTORING

The following information is a general reference for tutoring services.

ON-CAMPUS RESOURCES

Accounting Help Desk
460 Wehner Building
College Station. TX 77843
979-845-5014
Walk-in assistance with ACCT 209, 210, 229 & 230. The Help Desk is located on the 4th floor of Wehner, near stairwell A. Days and times are posted outside the classroom between rooms 230 and 238 in Wehner.

Biology Help Desk (www.bio.tamu.edu/index.php/undergrad/ldi/)
317E Heldenfels
College Station, TX 77843
979-845-4653
introbio@mail.bio.tamu.edu
Teaching Assistants provide one-on-one help to students needing help in 100-level biology courses.

Chemistry Department (http://www.chem.tamu.edu/fyp/)
107 Chemistry Building
College Station, TX 77842
979-845-2011
Links to tutoring resources (for courses 101, 102, 107, 227, 228) and strategies for success listed on website.

Economics Tutoring Lab (https://econ.tamu.edu/tutoring-lab/)
3002 Allen Building
College Station, TX 77843
979-845-7351
Tutoring offered by graduate students on a drop-in basis. Please check website for updated scheduling. \

Engineering Student Assistance & Tutoring Resources
(https://engineering.tamu.edu/academics/academic-support-services.html)

Math Department (http://www.math.tamu.edu/courses/helpsessions.html)
Website gives dates, times, and locations of help sessions.
979-845-3261
Offers a range of free group study sessions that provide course specific outside the classroom instruction. A list of individual tutors is maintained by the Math Department and can be obtained outside of room 601 in the Blocker building.

Study Hub – Academic Success Center (http://tutor.tamu.edu/)
9th Floor, Rudder Tower
College Station, TX 77843-1133
979-458-4900

Physics Help Desk (https://physics.tamu.edu/academics/current-undergraduates/undergrad-resources/)
Mitchel Physics Building
135 Texas A&M University
College Station, TX 77840
The physics help desk, located in MPHY 135, is staffed by current graduate students with TA experience. Students do not need an appointment to drop in and receive assistance with physics concepts and assignments (PHYS 201, 202, 208, 218). Please see the current semester's help desk schedule for hours of operation.

Students interested in receiving one-on-one tutoring from a current graduate student can request a list of tutors from the reception desk in MPHY. All private tutoring arrangements, including scheduling and payment, are strictly between the student and tutor and are not under the supervision the department

Statistics Help Desk (https://www.stat.tamu.edu/academics/help-sessions/)
162 Blocker
College Station, TX 77843
979-845-3141
For STAT 201, 301, 302, and 303. For days and times, please call or stop by.

Academic Success Center (http://successcenter.tamu.edu/)
Select the Schedule Link under Supplemental Instruction (SI) on the left side of the page.
9th Floor, Rudder Tower
College Station, TX 77843
979-458-4900

Offers a variety of programs and services that promote retention and academic success. The Supplemental Instruction (SI) program targets traditionally difficult core curriculum courses and provides regularly scheduled, out-of-class, peer-facilitated group study sessions. SI sessions will be announced within the first couple of weeks of class if one is being provided for a specific course. Drop-in tutoring is available in a variety of courses Sunday - Thursday evenings. Call for an appointment (979-845-2724) or walk-in to Hotard Hall 1st floor.

University Writing Center (http://writingcenter.tamu.edu)
1.214 Sterling C. Evans Library
College Station, TX 77843
979-458-1455

Provides help in the writing process, from brainstorming to proof reading. Students can receive help by setting up a one on one consultation, using the online writing lab, scheduling an appointment online, or calling the helpline for quick questions and tips. Please visit the website or call to find the option that best fits your needs.

GUIDE TO SUCCESS FROM FRESHMAN TO SENIOR

FRESHMAN

- ✓ Be familiar with ALL of the information in this handbook, it is available to help you navigate through your time in this department and your degree.
- ✓ Become familiar with departmental terms:
  *CBK Requirements
  *Q-Drops
  *Withdrawal
  *Probation & Dismissal
  *Adjustments
  *The Texas Common Course Numbering System (TCCNS)
- ✓ Learn how to use the links on the HOWDY PORTAL
- ✓ Get to know your professors, TA's, Advisors
- ✓ Make sure any courses you take at another college or university are transferable BEFORE you take them. Refer to the Transfer Course Credit section of this handbook.
- ✓ Utilize your resources
  *Free On-Campus Tutoring
  *Student Counseling Service (B103, Cain Hall, 979-845-4427),
  * Academic Success Center: http://us.tamu.edu/Undergraduate-Studies/Academic-Success-Center offers FREE Workshops & Group Meeting on topics such as:
    **Time Management & Procrastination
    **Learning techniques/information processing
    **Study Success Strategies
    **Maintaining Focus (goal setting, motivation, concentration, dealing with distractions)
    **Commit to Success (Four week, 8 session workshop series)
  *The Career Center - 209 Koldus, 979-845-5139
  *The University Writing Center - 1.214 Sterling C. Evans Library, 979-458-1455
- ✓ Explore internship opportunities for the summer after your Freshman year.
- ✓ START GETTING INVOLVED! Find out about different student organizations, beginning with the ones in our department. You can also search student organizations at http://studentactivities.tamu.edu/online/search/index. Don't forget to include volunteer opportunities!
- ✓ Explore minors and certificate programs
- ✓ Attend career fairs - No, it is not too soon to see what is available!
- ✓ **KEEP AN ACCURATE ACCOUNT OF YOUR GRADES, OVERALL, IN MAJOR, AND IN CBK COURSES.** You always want to maintain at least a 2.0 in each of these areas to keep from being on scholastic probation or dismissed.
- ✓ **As you preregister, make sure you meet course prerequisites if any.**
- ✓ **READ OUR EMAILS/UPDATES FREQUENTLY**

SOPHOMORE

- ✓ If you have not completed ENGL 104, and you want to take it at TAMU, you must do so before you complete 59 total hours. Juniors and Seniors (60+ hours) are NOT allowed in ENGL 104 at TAMU.
- ✓ Explore internship opportunities for the summer after your Sophomore year.
- ✓ Internships, and involvement in student organizations are a huge resume plus.
- ✓ Volunteerism not only helps other people or makes you feel good, it is a resume bonus!
- ✓ Have you thought about doing a study abroad?
- ✓ Attend career fairs!
- ✓ Continue getting to know your professors, TA's, advisors (academic and student organization advisors). These are the people that will help you with letters of recommendation for scholarships and employment.
- ✓ Remember to make sure any courses you take at another college or university are transferable BEFORE you take them. Refer to the Transfer Course Credit section of this handbook.
- ✓ Continue to use the resources available to you and listed in the Freshman section of this document.
- ✓ **KEEP AN ACCURATE ACCOUNT OF YOUR GRADES, OVERALL, IN MAJOR, AND IN CBK COURSES.** You always want to maintain at least a 2.0 in each of these areas to keep from being on scholastic probation or dismissed.
- ✓ **Check your Degree Evaluation on the Howdy Portal to make sure all of your dual credit, AP credit, transfer credit, etc. has been received.**
- ✓ **As you preregister, make sure you meet course prerequisites if any.**
- ✓ **READ OUR EMAILS/UPDATES FREQUENTLY**

JUNIOR

- ✓ Review your degree evaluation on the HOWDY Portal. You need to see what course requirements you have remaining to be able to graduate.
- ✓ Check your Unofficial Transcript on the HOWDY Portal to see how close you are to being able to apply for your Aggie Ring (Whoop!) You need 90 hours total (TAMU credit plus any transfer credit you may have) and 45 hours completed at TAMU.
- ✓ Have you completed an internship? After your Junior year is a good time for one!
- ✓ Have you thought about doing a study abroad?
- ✓ Volunteerism not only helps other people or makes you feel good, it is a resume bonus!
- ✓ Work on your interviewing, resume writing, and cover-letter writing skills. Contact the Career Center for help - 209 Koldus, 979-845-5139.
- ✓ Attend career fairs.
- ✓ Keep working on your leadership skills in student organizations.
- ✓ Continue getting to know your professors, TA's, advisors (academic and student organization advisors.)
- ✓ **KEEP AN ACCURATE ACCOUNT OF YOUR GRADES, OVERALL, IN MAJOR, AND IN CBK COURSES.** You always want to maintain at least a 2.0 in each of these areas to keep from being on scholastic probation or dismissed. You also have to have at least a 2.0 in each of these areas to be able to graduate.
- ✓ **As you preregister, make sure you meet course prerequisites if any.**
- ✓ **READ OUR EMAILS/UPDATES FREQUENTLY**

SENIOR

- ✓ Review your Degree Evaluation on the HOWDY Portal.
- ✓ Attend career fairs. Begin to look for full-time employment at least two semesters prior to graduation.
- ✓ Keep doing your volunteer activities!
- ✓ Calculate how much you would like to raise your GPR in your last 2-3 semesters.
- ✓ Make plans for taking the LSAT, GMAT, GRE or other professional school admissions tests if this is your career direction.
- ✓ Research graduate programs, if interested. Talk to the graduate advisors.
- ✓ Try to only take 12 credit hours your last semester. You may need to be absent for interviews, office visits, etc. Be sure to write thank you letters as soon after your interviews and office visits as possible. You always want to make a good impression.
- ✓ If you are a senior, you have completed 90 hours. Have you completed 45 of those hours at TAMU? If yes, ORDER YOUR RING!
- ✓ Make sure that your MINOR (if you are planning to complete one) is listed on your account before you apply for graduation.
- ✓ Apply for graduation on the HOWDY Portal during the first few weeks of your final semester.
- ✓ **As you preregister, make sure you meet course prerequisites if any.**
- ✓ **READ OUR EMAILS/UPDATES FREQUENTLY**

HELPFUL FORMS

OFFICE OF THE REGISTRAR

TEXAS A&M UNIVERSITY

Certification of Dependency Form

This form can be filled out with Adobe Acrobat and then printed for signatures. Upon completion, this form should be returned to Texas A&M University, Office of the Registrar, Records Section, P.O. Box 30018, College Station, TX 77842-3018 or faxed to 979-845-1086.
Any questions may be directed to 979-845-1003 or records@tamu.edu.

Under the Family Educational Rights and Privacy Act of 1974 (FERPA), the parents of a student claimed as a dependent for federal income tax purposes (as defined by the Internal Revenue Code of 1954, Section 152), **may be** given access to the student's educational records. Access does not permit a parent to make changes to a student's educational record.

STUDENTS: In completing this form, please note the following guidelines:

1. Print or type your **full, legal name** where indicated below.
2. ***Grades will not be mailed to you or your parents.***
   a. Parents may be granted access to online grade reports. However, you the student must provide instructions and the necessary password to your parents. ***Passwords are established and maintained by the student and are not available from the Office of the Registrar.***
   b. Mid-term grades are reported at the beginning of the eighth week of classes in the fall and spring semesters for enrolled undergraduate students who have completed fewer than 30 hours of course work at Texas A&M or who have a cumulative GPR at Texas A&M of less than 2.0.
3. Once submitted, this form is effective until such time as you declare in writing that you are no longer a dependent of your parent(s) for federal income tax purposes. Once this declaration has been filed in the Office of the Registrar, your educational records will no longer be made available to your parent(s) without your written consent.
4. Regulations allow release of information to either natural parent even in cases where only one parent claims the student as a dependent for federal income tax purposes. Step-parents are not assumed to have access under this provision and will need written consent in order to gain access to your records.
5. Parents who gain access under this provision should be advised that the Office of the Registrar may not provide private student information via e-mail, telephone, or any other medium through which the identity of the person seeking access can not be verified or documented.

This form will not be accepted and processed without the signatures of the parent(s) or guardian(s) AND the student.

Print Full LEGAL Name as it Appears on Your Records	Student's UIN	Date of Birth
Print Parent or Guardian's Name	Parent/Guardian Signature	Relationship
Print Alternate Parent or Guardian's Name (optional)	Alternate Parent Signature	Relationship

CERTIFICATION: I understand that under FERPA, Texas A&M University **may release information** contained in my educational records to my parents if I am claimed as a dependent for Federal Income Tax purposes. With my signature below, I hereby certify that I am claimed as a dependent by one or both of the parents listed above. I also understand that by signing this form, my parents may be given access to my educational records until such time as I submit a declaration in writing to the Texas A&M University Office of the Registrar that I am no longer claimed as a dependent for federal income tax purposes.

Student's Signature	Date

Reset Form

Print Form

OFFICE OF THE REGISTRAR

Q-Drop Request Form

TEXAS A&M UNIVERSITY

This form can be filled out with Adobe Acrobat and then printed for signatures.
Any questions may be directed to the Records Section 979-845-1003 or records@tamu.edu.

LAST NAME	FIRST NAME	Student ID
Local Street Address	**Local City, State , Zip**	**Contact Phone Number**

Major Field of Study	Classification	Are you a degree candidate this term?
		☐ Yes ☐ No

CHECK THE SEMESTER FOR WHICH Q-DROP IS APPLICABLE: (current term only)

☐ Fall ☐ Spring ☐ Summer I ☐ Summer II ☐ Summer 10-week YEAR: .....

COURSE(S) FOR WHICH Q-DROP IS REQUESTED:		
COURSE PREFIX (Ex: ACCT)	COURSE NUMBER (Ex: 229)	COURSE SECTION (Ex: 501)

Please select the SINGLE most important reason for requesting Q-Drop.

- ☐ A. Conflict – employment/child care
- ☐ B. Employed too many hours
- ☐ C. Excessive course load
- ☐ D. Medical
- ☐ E. Financial
- ☐ F. Death in the Family
- ☐ G. Dropping out of Corps
- ☐ H. Changing major
- ☐ I. Dropping to add another course
- ☐ J. Not required for graduation
- ☐ K. Do not have prerequisites
- ☐ L. Cannot pass qualifying exam
- ☐ M. Course too difficult
- ☐ N. Not doing well in class
- ☐ O. Missed too many classes
- ☐ P. Difficulty with professor
- ☐ Q. Professor hard to understand
- ☐ R. Personal Other

To be completed by Student	To be completed by Academic Department Or Dean's Office
By signing this form I certify my understanding that hours for Q-dropped courses **WILL NOT BE USED TO DETERMINE ENROLLMENT STATUS** and I may no longer be considered full-time if my enrolled hours drop below the minimum required based on career level (undergraduate or graduate) and the term in which the drop occurs. I understand dropping below full-time status may adversely impact financial aid, eligibility for tuition rebate, eligibility as a dependent for insurance coverage, veteran's benefits, athletic eligibility, scholastic probation, eligibility for extracurricular activities and some types of employment, etc. **INTERNATIONAL STUDENTS MUST RECEIVE PRIOR APPROVAL FROM INTERNATIONAL STUDENT SERVCES BEFORE DROPPING BELOW FULL-TIME.**	**Number of semester hours BEFORE drop:** ..... **Number of semester hours AFTER drop:** .....
Student Signature	**Authorizing Signature of Dean and/or Department**
Date	**Date**

Print

Withdrawing From the University

Students who drop to zero (0) hours in a semester or term must officially withdraw from the University. This process is initiated by the student online via Howdy. Student withdrawal information and a link to initiate a withdrawal are found in the Student Withdrawal channel on the My Record tab in Howdy. Students may withdraw by the deadline for Q-dropping (60th class day of a fall or spring semester; 15th class day of a 5-week summer term; 35th class day of a 10-week summer semester).

- **Student-Athletes** (including practice players, managers, and trainers) **MUST** receive approval from Athletic Compliance before withdrawing.
- After the deadline, deans may permit students to withdraw under non-academic extenuating circumstances.
- Withdrawals cannot be granted once final exams have begun.

For additional information about withdrawing from the University, see Part I, Section 17 of the Texas A&M University Student Rules.

Students are reminded that withdrawing from the University **does not** dismiss the repayment of student loans borrowed and may impact payment and grace periods. To learn more about repaying your student loans, please visit http://studentaid.ed.gov/repay-loansand to find your current loan history, see http://nslds.ed.gov. For questions, contact Scholarships & Financial Aid at (979) 845-3236.

Special Note Withdrawal Due to Call-Up to Active Military Duty: *Withdrawal due to active military duty is not processed through the online withdrawal system.* A special procedure has been established for students who must withdraw from the University because they have been called to active military duty. Click here for information specific to students who withdraw under these circumstances.

DIVISION OF ACADEMIC AFFAIRS
OFFICE OF THE REGISTRAR

TEXAS A&M UNIVERSITY

Student Employment Verification

This form can be filled out with Adobe Acrobat and then printed for signatures.
Any questions may be directed to 979-845-7117 or registration@tamu.edu.

INFORMATION PROVIDED IN THIS DOCUMENT IS SUBJECT TO AUDIT. FALSIFICATION OF INFORMATION CONTAINED IN THIS DOCUMENT WILL RESULT IN A PERMANENT LOSS OF EARLY REGISTRATION PRIVILEGES.

Please DO NOT submit this form if registering as an Honors Student.

☐ **Please check box if you are Honors eligible but do NOT intend to take advantage of early Honors registration.**

- Students MUST work a minimum of twelve (12) hours between 8 a.m. and 5 p.m., Monday – Friday (on or off campus).
- Volunteer work is NOT eligible.
- Students whose work schedule is not between 8 a.m. and 5 p.m. are NOT eligible.

Forms will be accepted NO EARLIER than 8 a.m., Monday, March 4, 2013 and NO LATER than 5 p.m., Friday, March 8, 2013. Forms received after 5 p.m., March 8, 2013 will NOT be processed.

If the information on this form is incomplete or incorrect, you will not be flagged for early registration. It is not the responsibility of the Office of the Registrar to contact you if the information is incomplete or incorrect.

This form may be submitted in one of the following ways:

- Drop box at the Office of the Registrar, General Services Complex, 750 Agronomy Road, Suite 1501 OR at the Prospective Student Center, Koldus, Room 109.
- Campus Mail, Office of the Registrar, Registration, Mail Stop 0100.
- Fax to 979-845-4383 or 979-845-4757. The Office of the Registrar is not responsible for failed transmissions. **Keep the fax confirmation for your records. Please DO NOT send multiple faxes.**
- Email scanned PDF files to registration@tamu.edu.

MUST BE COMPLETED BY THE STUDENT

I, _____ UIN# _____ verify I will be an employee
Printed Name of Student

of _____ and I will work a minimum of **twelve hours per week**
Printed place of employment

between the hours of 8 a.m. – 5 p.m., Monday-Friday during the fall 2013 semester.

My local phone number is _____ . _____
Student Signature Date

MUST BE COMPLETED BY THE EMPLOYER

I, _____ verify the above indicated will work a minimum of **twelve**
Printed Name of Supervisor

hours per week between the hours of 8 a.m. – 5 p.m., Monday-Friday during the fall 2013 semester.

You may call _____ to verify employment.
Supervisor's phone #

_____
Supervisor's signature Date

OFFICE OF THE REGISTRAR

Undergraduate Change of Curriculum Request

TEXAS A&M UNIVERSITY

This form can be filled out with Adobe Acrobat and then printed for signatures.

Students requesting a change of curriculum will be subject to all requirements and enrollment restrictions of the college and department which the proposed new major is located.

TO BE COMPLETED BY THE STUDENT

Last Name ..... First Name ..... Middle Name ..... Student ID .....

Local Address: .....

.....

.....

Current Major: ..... Degree: ..... Classification: ☐ U1 ☐ U2 ☐ U3 ☐ U4 ☐ U5

Are you a student-athlete? ☐ **Yes** ☐ **No** ***If yes, you MUST clear your change of curriculum with the Center for Student Athlete Services, 2nd floor Bright Football Complex.***

Current Academic Standing: ☐ **Good Standing** ☐ **On Probation** ☐ **Blocked/Dropped**

I hereby request the following change(s) in curriculum. I understand I will be subject to all requirements and enrollment restrictions of the college and/or department in which my proposed new major is located, that my graduation may be delayed as a result of changing to a new curriculum, and I may become ineligible for the $1000 tuition rebate if I have credit hours which cannot be used toward my chosen degree plan.

New Major: ..... Option (if applicable): ..... Degree .....

☐ Change of Major ☐ Add as a second major ☐ Change Degree Type

Student Signature ..... Date .....

TO BE COMPLETED BY ACCEPTING DEPARTMENT AND/OR COLLEGE

The change of curriculum requested above has been reviewed and approved by authorized representatives of the academic department and/or college in which the proposed new major is located.

The student will be required to satisfy degree requirements found in Catalog: .....

The student has been accepted into his/her requested major: ☐ In Good Standing ☐ On Probation

Probation terms (if applicable):

Department Head/Advisor ..... Date .....

College Dean/Advisor ..... Date .....

Upon completion, please send a copy of this form to the department in which the student's former major is located.

Print

HELPFUL LINKS

HELPFUL LINKS

GENERAL INFORMATION:
BAEN HOME: http://baen.tamu.edu/
COLLEGE OF AGRICULTURE AND LIFE SCIENCES: http://aglifesciences.tamu.edu/
HOWDY: https://howdy.tamu.edu
REGISTRAR: http://registrar.tamu.edu/
SCHOLARSHIPS AND FAID: https://financialaid.tamu.edu/
STUDENT RULES: http://student-rules.tamu.edu/
TAMU HOME: http://www.tamu.edu/
TAMU ONLINE CATALOG: http://catalog.tamu.edu/

HIGH IMPACT INFORMATION:
AGGIE PULLERS: http://aggiepullers.tamu.edu/
AGSM STUDENT CLUB: https://maroonlink.tamu.edu/organization/agsm
ASABE: https://maroonlink.tamu.edu/organization/asabe
COALS STUDENT COUNCIL: http://coalscouncil.wixsite.com/tamucoalscouncil
HONORS PROGRAM: https://honorsprograms.tamu.edu/
STUDY ABROAD: http://studyabroad.tamu.edu/
STUDENT ACTIVITIES: https://studentactivities.tamu.edu/app/

PROFESSIONAL DEVELOPMENT:
ACADEMIC SUCCESS CENTER: http://successcenter.tamu.edu/
CAREER CENTER: http://careercenter.tamu.edu/
TAMU OFFICE OF PROFESSIONAL SCHOOL ADVISING: http://opsa.tamu.edu/
WRITING CENTER: http://writingcenter.tamu.edu/.

NOTES:

PARENTAL INFORMATION

PARENTAL INFORMATION

ACCESS TO STUDENT RECORDS

Under provisions of the Family Educational Rights and Privacy Act (FERPA), students enrolled in post-secondary educational institutions are deemed to "own" their educational records. Institutions may, but are not required to, grant access to certain non-directory information in a student's educational record if the student is carried as a dependent on the parent's/guardian's federal income tax return. **Under no circumstances will non-directory information be released to a parent or guardian unless a Certification of Dependency Form is completed and signed by both the parent(s)/guardian(s) and the student** and is brought to the Office of the Registrar, General Services Complex, 750 Agronomy Road, Suite 1501 or mailed to the Office of the Registrar, P.O. Box 30018, College Station, TX 77842-3018.

GRADE REPORTS FOR PARENTS

Parents/guardians may access grades, class schedules, and verification of enrollment through the Howdy Portal website. TAMU does NOT mail mid-term or final grade reports.

A student must set a parent password to allow access to their records by a parent/guardian. With the password and the student's UIN number, parents/guardians will be able to access the student's grades. Links to and instructions for using this system are available at http://hdc.tamu.edu/Connecting/Howdy_Web_Portal/Parent__Former_Student_Access/Signing_Up_for_Parent_Guardian_Access_to_Howdy.php