

Proposed ASM Flowchart

121 Units

Freshman

Sophomore

Junior

Senior

Freshman		Sophomore		Junior		Senior	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
Intro to BRAE/ASM BRAE 1128 (2)	Surveying BRAE 1239 (3)	Systems Management I BRAE 2203 (4)	Power & Machinery I BRAE 2142 (3)	Irr. Water Man. BRAE 3340 (3) GE B Upper Div.	Systems Management II BRAE 3317 (4)	Mechatronics BRAE 4425 (5)	Elective (3)
CAD for Ag Eng. BRAE 1150 (2)	Business Calc. (3)	Data Literacy AGB 2260 (3)	GE D2 (3)	Power & Machinery II BRAE 3301 (3)	Energy for a Sustainable Society BRAE 3348 (3)	Senior Project I BRAE 4460 (1)	Senior Project II BRAE 4461 (2)
Math or Stat (3) GE B4	Chemistry (4)	GE Area F (3)	AGB Financial Accounting AGB 2214 (3)	Ag Econ ABG 2212(3)	Mech. Sys. Analysis BRAE 3343 (4)	Systems Management III BRAE 4419 (3)	Elective (3)
Physics (4) GE B1 & B3	GE C1 (3)	GE D1 (3)	GE C2 (3)	Ag Credit & Finance AGB 3310 (3)	Ag Personnel Management AGB 3369 (3)	Ag Buildings BRAE 4432 (4)	GE Upper Div. D (3)
GE A2 (3)	GE A1 (3)	GE A3 (3)	GE B2 (3) (BRAE 220)	Elective (3)		Agricultural Irrigation Systems BRAE 4440 (4)	GE C3 Upper Div. (3)
Total 14 Units	Total 16 Units	Total 16 Units	Total 15 Units	Total 15 Units	Total 14 Units	Total 17 Units	Total 14 Units

REQUIRED before Fall 2026
- **BRAE 237/239**

Proposed ASM Flowchart Fall 2025 Cohort

136 Units (45 Quarter, 91 Semester)

Freshman

Sophomore

Junior

Senior

Freshman			Sophomore		Junior		Senior	
FALL	WINTER	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
Careers in BRAE 128 (2)	CAD for Agricultural Engineering BRAE 150 (2)	3-D Solids Modeling BRAE 152 (1) (BRAE 150 or equiv)	Systems Management I BRAE 2203 (4)	Power & Machinery I BRAE 2142 (3)	Irr. Water Man. BRAE 3340 (3) GE B Upper Div.	Systems Management II BRAE 3317 (4)	Mechatronics BRAE 4425 (5)	Senior Project II BRAE 4461 (2)
	Laboratory Skills and Safety BRAE 129 (1)	Engineering Surveying BRAE 237 (2) or BRAE 239 (4) (MATH 119 or equiv)	Data Literacy AGB 2260 (3)	GE D2 (3)	Power & Machinery II BRAE 3301 (3)	Energy for a Sustainable Society BRAE 3348 (3)	Senior Project I BRAE 4460 (1)	Elective (3)
MATH 119 (4) [B1]	Calculus for Business and Economics MATH 221 (4) * [B1]	College Physics I PHYS 121 (4)*	GE Area F (3)	AGB Financial Accounting AGB 2214 (3)	Ag Econ ABG 2212(3)	Mech. Sys. Analysis BRAE 3343 (4)	Systems Management III BRAE 4419 (3)	Elective (3)
Oral Comm COMS 101 or 102 (4)** [A2]	Chemistry CHEM 110 (4)* or CHEM 111 (5)* [B3 & B4]	Animal or Plant Production Course (3)*	GE D1 (3)	GE C2 (3)	Ag Credit & Finance AGB 3310 (3)	Ag Personnel Management AGB 3369 (3)	Ag Buildings BRAE 4432 (4)	GE Upper Div. D (3)
Expository Writing ENGL 133 or 134 (4)** [A1]	Writing Arguments ENGL 147 (4)** [A1]		GE A3 (3)	GE B2 (3) (BRAE 220)	Elective (3)		Agricultural Irrigation Systems BRAE 4440 (4)	GE C3 Upper Div. (3)
		GE (4) **						
Total 14 Units	Total 15 Units	Total 14-16 Units	Total 16 Units	Total 15 Units	Total 15 Units	Total 14 Units	Total 17 Units	Total 14 Units

REQUIRED before Fall 2026
- **BRAE 237/239**

Proposed ASM Flowchart Fall 2024 Cohort

151-153 Units (91-93 Quarter, 60 Semester)

Note: BRAE 203 will miss some things that are useful in 3317. Faculty acknowledge and will shift curriculum for this cohort. No Bridge/Gap needed.

Freshman

Sophomore

Junior

Senior

Freshman			Sophomore			Junior		Senior	
FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	SPRING	FALL	SPRING
Careers in BRAE 128 (2)	CAD for Agricultural Engineering BRAE 150 (2)	3-D Solids Modeling BRAE 152 (1) (BRAE 150 or equiv)	Ag Power & Machinery Mgmt BRAE 142 (4) (MATH 116 or equivalent)	Agricultural Systems Analysis BRAE 203 (4) (MATH 118 or equiv)	Engineering Surveying BRAE 237 (2) or BRAE 239 (4) (MATH 119 or equiv)	Irr. Water Man. BRAE 3340 (3) GE B Upper Div.	Systems Management II BRAE 3317 (4)	Mechatronics BRAE 4425 (5)	Senior Project II BRAE 4461 (2)
	Laboratory Skills and Safety BRAE 129 (1)		Introductory Soil Science SS 120 (4)*	Financial Accounting BUS 212 or AGB 214 (4)		Power & Machinery II BRAE 3301 (3)	Energy for a Sustainable Society BRAE 3348 (3)	Senior Project I BRAE 4460 (1)	Elective (3)
MATH 119 (4) [B1]	Calculus for Business and Economics MATH 221 (4) * [B1]	College Physics I PHYS 121 (4)*	Data Literacy AGB 260 (4)	GE (4) **	GE (4) **	Ag Econ ABG 2212(3)	Mech. Sys. Analysis BRAE 3343 (4)	Systems Management III BRAE 4419 (3)	Elective (3)
Oral Comm COMS 101 or 102 (4)** [A2]	Chemistry CHEM 110 (4)* or CHEM 111 (5)* [B3 & B4]	Animal or Plant Production Course (3)*	GE (4) **	GE (4) **	GE (4) **	Ag Credit & Finance AGB 3310 (3)	Ag Personnel Management AGB 3369 (3)	Ag Buildings BRAE 4432 (4)	GE Upper Div. D (3)
Expository Writing ENGL 133 or 134 (4)** [A1]	Writing Arguments ENGL 147 (4)** [A1]	Lower division elective (4)				Elective (3)		Agricultural Irrigation Systems BRAE 4440 (4)	GE C3 Upper Div. (3)
		GE (4) **							
Total 14 Units	Total 15 Units	Total 16 Units	Total 16 Units	Total 16 Units	Total 14-16 Units	Total 15 Units	Total 14 Units	Total 17 Units	Total 14 Units

REQUIRED before Fall 2026

- **BRAE 418** Spring 2025 (special section)
- **BRAE 340** (take 2025-26 academic year)

Proposed ASM Flowchart Fall 2023 Cohort

169 Units (138 Quarter, 31 Semester)

Freshman

Sophomore

Junior

Senior

Freshman			Sophomore			Junior			Senior	
FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	SPRING
Careers in BRAE BRAE 128 (2)	CAD for Agricultural Engineering BRAE 150 (2)	3-D Solids Modeling BRAE 152 (1) (BRAE 150 or equiv)	Ag Power & Machinery Mgmt BRAE 142 (4) (MATH 116 or equivalent)	Agricultural Systems Analysis BRAE 203 (4) (MATH 118 or equiv)	Engineering Surveying BRAE 237 (2) or BRAE 239 (4) (MATH 119 or equiv)	Irrigation Water Management BRAE 340 (4) (Jr standing, GE Area A&B4)	Principles of Agricultural Electrification BRAE 324 (4) (MATH 119, PHYS 121)	Energy for a Sustainable Society BRAE 348 (4) (Jr Standing; GE Area B) [F]	Mechatronics BRAE 4425 (5)	Elective (3)
	Laboratory Skills and Safety BRAE 129 (1)		Introductory Soil Science SS 120 (4)*	Financial Accounting BUS 212 or AGB 214 (4)			Agricultural Safety BRAE 321 (3) (Junior standing)	Hydraulic and Mechanical Power Systems BRAE 301 (4) (PHYS 121 or 141)	Senior Project I BRAE 4460 (1)	Senior Project II BRAE 4461 (2)
MATH 119 (4) [B1]	Calculus for Business and Economics MATH 221 (4) * [B1]	College Physics I PHYS 121 (4)*	Agricultural Economics AGB 212 (4)	GE (4) **	GE (4) **	Agricultural Materials BRAE 342 (4) (MATH 119, PHYS 121, SS 120)	Mech. Systems Analysis BRAE 343 (4) (BRAE 342)	Ag Systems Mgmt 1 BRAE 418 (4) (BRAE 203)	Systems Management III BRAE 4419 (3)	Elective (3)
Oral Comm COMS 101 or 102 (4)** [A2]	Chemistry CHEM 110 (4)* or CHEM 111 (5)* [B3 & B4]	Animal or Plant Production Course (3)*	GE (4) **	Data Literacy AGB 260 (4)	GE (4) **	Agribusiness Credit and Finance AGB 310 (4) (AGB 214 or BUS 212 or 214)	Ag Systems Mgmt Theory BRAE 317 (4) (BRAE 203)		Ag Buildings BRAE 4432 (4)	GE Upper Div. D (3)
Expository Writing ENGL 133 or 134 (4)** [A1]	Writing Arguments ENGL 147 (4)** [A1]	Lower division elective (4)				Upper division GE (4) **		Agricultural Personnel Management AGB 369 (4) (AGB 212 & Jr Standing)	Agricultural Irrigation Systems BRAE 4440 (4)	GE C3 Upper Div. (3)
		GE (4) **								
Total 14 Units	Total 15 Units	Total 16 Units	Total 16 Units	Total 16 Units	Total 14-16 Units	Total 16 Units	Total 15 Units	Total 16 Units	Total 17 Units	Total 14 Units