

# Proposed Final BRAE Flowchart (Fall 2026 Cohort)

## 128 Units

Freshman		Sophomore		Junior		Senior	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
Intro to BRAE/ASM BRAE 1128 (2)	Design Graphics and CAD for Ag Eng. BRAE 1150 (2)	Principles of Irrigation BRAE 2236 (4)	Fundamentals of Electricity BRAE 2216 (4)	Hydraulics BRAE 3312 (3)	Irrigation II BRAE 4414 (3)	Ag Structures Design BRAE 4433 (4)	BRAE Focus Area Elective (3)
PHYS 1141 (4) GE 1B & 3B	PHYS 1143 (4)	CHEM 1122 (4)	Intro to Biological Systems BRAE 2220 (4) GE 5B & 5C	Env. Controls Ag BRAE 3332 (3)	Bioresource I BRAE 3320 (3)	BRAE Focus Area Elective (3)	Senior Project II BRAE 4461 (2)
MATH 1261 (4) GE 4B	MATH 1262 (4)	MATH 2263 (3)	Engr. Mechanics I BRAE 2221(4)	Engr Surveying BRAE 1239 (3)	Ag Robotics and Automation BRAE 4428 (4)	Senior Project I BRAE 4460 (1)	Engr Statistics STAT 3210 (3) GE B
GE 1A (3)	GE (3)	GE (3)	Programming for Engr. CSC 1032 (3)	Engr Mechanics II BRAE 2222 (4)	Equip Engineering I BRAE 3234 (4)	Equip Engineering II BRAE 4422 (3)	GE 4D (3)
GE 1C (3)	GE 1A (3)	GE (3)	GE (3)	ECON 2001 or 2040 GE 2D (3)	Elective (3)	Ag Engr Ethics, Economics and Optimization BRAE 4403 (3)	GE 3C (3)
<b>Total</b> <b>16 Units</b>	<b>Total</b> <b>16 Units</b>	<b>Total</b> <b>17 Units</b>	<b>Total</b> <b>18 Units</b>	<b>Total</b> <b>16 Units</b>	<b>Total</b> <b>17 Units</b>	<b>Total</b> <b>14 Units</b>	<b>Total</b> <b>14 Units</b>

**Required** before Fall 2026  
 - **GE D1** to Freshman Yr

# Proposed Final BRAE Flowchart Fall 2025 Cohort

## 138 Units (45 Quarter, 93 Semester)

**Do NOT take** before Fall 2026  
 - **Physics II**  
 - **Take Fall Soph. Yr**

### Freshman (Quarter)

### Sophomore

### Junior

### Senior

Freshman (Quarter)			Sophomore		Junior		Senior	
FALL	WINTER	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
Intro to BRAE/ASM BRAE 128 (2)	CAD for Ag Eng. BRAE 150 (2)	CAD for Ag Eng. BRAE 152 (1)	Principles of Irrigation BRAE 2236 (4)	Fundamentals of Electricity BRAE 2216 (4)	Hydraulics BRAE 3312 (3)	Irrigation Engineering BRAE 4414 (3)	Ag Structures Design BRAE 4433 (4)	BRAE Focus Area Elective (3)
BRAE 129 (1)	Physics I (4) GE B1 & B3	GE D1 (3)	Chemical Reactivity CHEM 1122 (4)	Intro to Biological Systems BRAE 2220 (4) GE 5B & 5C	Env. Controls Ag BRAE 3332 (3)	Bioresource Engineering BRAE 3320 (3)	BRAE Focus Area Elective (3)	Senior Project II BRAE 4461 (2)
Math Calc. Iq (4) GE B4	Math Calc. IIq (4) GE B4	Math Calc. IIIq (4)	Calc. III MATH 2263 (3)	Engr Mechanics I BRAE 2221 (4)	Engr Surveying BRAE 1239 (3)	Ag Robotics and Automation BRAE 4428 (4)	Senior Project I BRAE 4460 (1)	Engr Statistics STAT 3210 (3) GE B
GE A1 (4)		GE F (4)	Physics II <b>PHYS 1143</b> (3)	Programming for Engr. CSC 1032 (3)	Engr Mechanics II BRAE 2222 (4)	Equip Engineering I BRAE 3234 (4)	Equip Engineering II BRAE 4422 (3)	GE 3C (3)
GE A2 (4)	GE A3 (4)	GE C1 (4)	GE (3)	GE (3)	ECON 2001 or ECON 2040 GE 2D (3)	Elective (3)	Ag Engr Ethics, Economics and Optimization BRAE 4403 (3)	GE 4D (3)
<b>Total</b> 15 Units	<b>Total</b> 14 Units	<b>Total</b> 16 Units	<b>Total</b> 17 Units	<b>Total</b> 18 Units	<b>Total</b> 16 Units	<b>Total</b> 17 Units	<b>Total</b> 14 Units	<b>Total</b> 14 Units

**REQUIRED** before Fall 2026

- CE 204 prereq for BRAE 2222
- GE C2

# Proposed Final BRAE Flowchart Fall 2024 Cohort

## 155 Units (94 Quarter, 61 Semester)

**Do NOT take** before Fall 2026

- BRAE 234

### Freshman (Quarter)

### Sophomore (Quarter)

### Junior

### Senior

Freshman (Quarter)			Sophomore (Quarter)			Junior		Senior	
FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	SPRING	FALL	SPRING
Intro to BRAE/ASM BRAE 128 (2)	CAD for Ag Eng. BRAE 150 (2)	CAD for Ag Eng. BRAE 152 (1)	Irrigation I BRAE 236 (4)	Intro to Biological Systems BRAE 220 (4) GE B2	GE D1 (4)	Hydraulics BRAE 3312 (3)	Irrigation Engr BRAE 4414 (3)	Ag Structures BRAE 4433 (4)	BRAE Pillar Focus Course (3)
BRAE 129 (1)	Physics I (4) GE B1 & B3	Physics II (4)	Physics III (4)	BRAE Ag Struct. 1 BRAE 232 (4)	GE C2 (4)	Env. Controls Ag BRAE 3332 (3)	Bioresource Engr BRAE 3320 (3)	BRAE Pillar Focus Course (3)	Senior Project II BRAE 4461 (2)
Math Calc. Iq (4) GE B4	Math Calc. IIq (4) GE B4	Math Calc. IIIq (4)	Math Calc. IV (4)	Chemistry 1 (4)	Chemistry 2 (4)	Engr Surveying BRAE 1239 (3)	Ag Robotics and Automation BRAE 4428 (4)	Senior Project I BRAE 4460 (1)	Engr Statistics STAT 3210 (3) GE B Upper Div.
GE A1 (4)		GE F (4)	Ag Electrical I BRAE 216 (4)	ME 211 (3)	CE 204 (3)	Mechanics II BRAE 2222 (4)	Equip Engineering I BRAE 3234 (4)	Equip Engineering II BRAE 4422 (3)	GE D4 (3) Upper Div.
GE A2 (4)	GE A3 (4)	GE C1 (4)			Computer Science / Programming (2)	ECON 2001 or ECON 2040 GE 2D (3)	Elective (3)	Ag Engr Ethics, Economics and Optimization BRAE 4403 (3)	GE C3 (3) Upper Div.
<b>Total</b> 15 Units	<b>Total</b> 14 Units	<b>Total</b> 17 Units	<b>Total</b> 16 Units	<b>Total</b> 15 Units	<b>Total</b> 17 Units	<b>Total</b> 16 Units	<b>Total</b> 17 Units	<b>Total</b> 14 Units	<b>Total</b> 14 Units

**REQUIRED** before Fall 2026

- CE 207 prereq for BRAE 4422
- BRAE 239 surveying

# Proposed Final BRAE Flowchart Fall 2023 Cohort

## 171 Units (142 Quarter, 29 Semester)

**Do NOT** take before Fall 2026

- BRAE 4428

Freshman (Quarter)

Sophomore (Quarter)

Junior (Quarter)

Senior

Freshman (Quarter)			Sophomore (Quarter)			Junior (Quarter)			Senior	
FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	SPRING
Intro to BRAE/ASM BRAE 128 (2)	CAD for Ag Eng. BRAE 150 (2)	CAD for Ag Eng. BRAE 152 (1)	Irrigation I BRAE 236 (4)	Intro to Biological Systems BRAE 220 (4) GE B2	Mech. Systems BRAE 234 (4)	Hydraulics BRAE 312 (4)	Irr. Theory BRAE 331 (3)	Irrigation II BRAE 414 (4)	Ag Structures BRAE 4433 (4)	Ag Robotics and Automation BRAE 4428 (4)
BRAE 129 (1)	Physics I (4) GE B1 & B3	Physics II (4)	Physics III (4)	Ag Struct. 1 BRAE 232 (4)	Chemistry 2 (4)	EE 321 & 361 (4)	Meas. & Comp. Interfacing BRAE 328 (4)	Bioresource I BRAE 320 (4)	BRAE Pillar Focus Course (3)	Senior Project II BRAE 4461 (2)
Math Calc. Iq (4) GE B4	Math Calc. IIq (4) GE B4	Math Calc. IIIq (4)	Math Calc. IV (4)	Chemistry 1 (4)	ME 212 (3)	STAT 312 Upper B (4)	GE F (4)	Env. Controls BRAE 332 (4)	Senior Project I BRAE 4460 (1)	Engineering Statistics(3) GE B Upper Div.
GE A1 (4)		Surveying BRAE 239 (4)	Ag Electrical I BRAE 216 (4)	ME 211 (3)	Computer Science / Programming (2)		CE 204 (3)	CE 207 (2)	Equip Engineering II BRAE 4422 (3)	GE D4 (3) Upper Div.
GE A2 (4)	GE A3 (4)	GE C1 (4)			GE D1 (4)	Econ 201 or 221 GE D2 (4)	GE C2 (4)		Ag Engr Ethics, Economics and Optimatization BRAE 4403 (3)	GE C3 (3) Upper Div.
<b>Total 15 Units</b>	<b>Total 14 Units</b>	<b>Total 17 Units</b>	<b>Total 16 Units</b>	<b>Total 15 Units</b>	<b>Total 17 Units</b>	<b>Total 16 Units</b>	<b>Total 18 Units</b>	<b>Total 14 Units</b>	<b>Total 14 Units</b>	<b>Total 15 Units</b>