### B.S. in BioResource and Agricultural Engineering
#### Suggested 4-Year Academic Flowchart

**2013-15 Catalog**

**FRESHMAN**
- **Fall**
  - Calculus I
    - MATH 141 (4) [B1]
  - Expository Writing
    - ENGL 133/134 (4)** [A1]
  - Oral Communication
    - COMS 101/102 (4)** [A2]
  - Technical Writing for Engineers
    - ENGL 149 (4)

- **Spring**
  - Calculus II
    - MATH 142 (4)
  - General Physics IA
    - PHYS 141 (4)*

**SOPHOMORE**
- **Fall**
  - Calculus III
    - MATH 143 (4) [B1]
  - Calculus IV
    - MATH 241 (4) [Add'l Area B]
  - Linear Analysis I
    - MATH 244 (4) [MATH 141]
  - Engineering Dynamics I
    - ME 212 (3) [MATH 141]
  - Statistics for Engineers
    - STAT 312 (4)

- **Spring**
  - Calculus V
    - MATH 245 (4) [MATH 141]
  - Engineering Statics
    - ME 211 (3) [PHYS 131 or 141]
  - Thermodynamics I
    - ME 302 (3) [PHYS 132, ME 212, or CHEM 128]

**JUNIOR**
- **Fall**
  - Calculus VI
    - MATH 246 (4) [MATH 141]
  - Engineering Statics II
    - ME 303 (3) [PHYS 131 or 141]
  - Mechanical Behavior of Materials I
    - MCRO 221 (4)

- **Spring**
  - Engineering Mechanics
    - ME 304 (3)
  - Engineering Analysis
    - MACS 271 (3)
  - Senior Project Organization
    - BRAE 460 (1) [GE A3]

**SENIOR**
- **Fall**
  - Senior Project I
    - BRAE 461 (2) [BRAE 461 (2) (BRAE 462)]
  - Senior Project II
    - BISE 462 (3)

- **Spring**
  - Senior Project II
    - BISE 461 (2) [BRAE 462 (2) (BRAE 461)]

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**Notes:**
- MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET
  - * Refer to current catalog for prerequisites.
  - ** One course from each of the following GE areas must be completed: A1, A2, B1, B2, B3, B4, C1, C2, C3, C4, D1, D3, and D4. C4 should be taken only after Junior standing is reached (90 units).
  - Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).
  - USCP requirement can be satisfied by some (but not all) courses within GE categories: C3, C4, D1, D3, or D4.

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**Legend:**
- **Course Title**
- **Course # (Units)**
- **(Prerequisite)**
- **Support (81-82)**
- **Approved Elective (2-4)**
- **Approved Elective (4)**
- **Major (71-73)**
- **Graduation Writing Requirement (GWR)**
- **[GE Area]**
- **General Ed. (36)**