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<td>FIRST YEAR</td>
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<td>CHEM 205</td>
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<td>MATH 245</td>
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**MAJOR COURSE PLAN**

**ENGINEERING MAJOR**

- Intro. to Separation Processes
- Comp.-Aided Chemical Process Design
- Writing and Critical Reasoning
- Engineering Freshman Academy
- Mass Transfer in ChE Processes
- Sustainable Energy
- Calculus III
- Intro. to Chemical Engineering
- Physical Chemistry:
- Technical Entrepreneurship
- Electricity and Magnetism
- Numerical Methods in Chemical
- Chemical Process Dynamics &
- Chemical Engr. Thermodynamics
- Engineering Economy
- General Chemistry

**GENERAL EDUCATION (32 UNITS)**

- GE A: The Arts (1 Course)
- GE B: Humanistic Inquiry (2 Courses)
- GE C: Social Analysis (2 Courses)
- GE D: Life Sciences (1 Course)
- GE E: Physical Sciences (1 Course)

**SPECIAL NOTES**

Courses with this symbol may be satisfied with AP, IB or A-Level exams. See page 22 for more information.

GE: Engineering students are encouraged to satisfy GE G and GE H with a course that also satisfies a Core Literacy. GE H may be satisfied by exam. Additionally, your GESM course should be taken in categories A, B, C, or D only. See page 21 for more information and consult your advisor for detailed assistance.

OPTIONAL ELECTIVES: Consult with your academic advisor to explore optional elective courses. These courses are not required.

SUSTAINABLE ENERGY ELECTIVE (3):
- Biofuel (CHE 301 or CHE 488 or CHE 489);
- Geothermal (PTE 463L);
- Hydrogen (CHE 486 or
- PTE 519);
- Solar (CHE 487 or EE 513);

*Must have 49 engineering units to be able to take BUAD 301.