OU encourages students to complete at least 32 hours of applicable coursework each year to have the opportunity to graduate in 4 years.
Courses designated as Core I, II, III, IV or V are part of the General Education curriculum. Students must complete a minimum of 40 hours of General Education courses, chosen from the approved list. The University will have an additional 6-10 hours of coursework.

Two college-level courses in a single world language are required; this may be satisfied by successful completion of 2 years in a single world language in high school. Students who must take a language at the University will have an additional 6-10 hours of coursework.

In order to progress in your curriculum in the Gallogly College of Engineering, and as a specific graduation requirement, a grade of C or better is required in each course in the curriculum, including all prerequisite courses. Chemical engineering courses are sequential and usually offered only in the semester shown; note prerequisites.

Bachelor of Science in Chemical Engineering accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Chemical, Biochemical, Biomolecular and Similarly Named Program Criteria.

Courses designated as Core I, II, III, IV or V are part of the General Education curriculum. Students must complete a minimum of 40 hours of General Education courses, chosen from the approved list.

### SUGGESTED SEMESTER PLAN OF STUDY

Bachelor of Science in Chemical Engineering accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Chemical, Biochemical, Biomolecular and Similarly Named Program Criteria.

In order to progress in your curriculum in the Gallogly College of Engineering, and as a specific graduation requirement, a grade of C or better is required in each course in the curriculum, including all prerequisite courses. Chemical engineering courses are sequential and usually offered only in the semester shown; note prerequisites.

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Courses designated as Core I, II, III, IV or V are part of the General Education curriculum. Students must complete a minimum of 40 hours of General Education courses, chosen from the approved list.

### Year | FIRST SEMESTER | Hours | SECOND SEMESTER | Hours
--- | --- | --- | --- | ---
**FRESHMAN**
ENGL 1113 | Principles of English Composition (Core I) | 3 | ENGL 1213 or EXPO 1213 | 3
CHEM 1315 | General Chemistry (Core II-Lab) | 5 | CHEM 1435 | 5
MATH 1914 | Differential and Integral Calculus I (Core I) | 4 | MATH 2924 | 4
ENGR 1411 | Pathways to Engineering Thinking | 1 | PHYS 2514 | 4
Approved Elective: First-Year Experience (Core V) | 3
**CREDIT HOURS** | **16** | **CREDIT HOURS** | **16**
**SOPHOMORE**
MATH 2934 | Differential and Integral Calculus II | 4 | MATH 3113 | 3
PHYS 2524 | General Physics for Engineering and Science Majors | 4 | CHEM 3164 | 4
CH E 2033 | Chemical Engineering Fundamentals | 3 | CH E 3113 | 3
CHEM 3064 | Organic Chemistry I | 4 | CHEM 3423 | 3
CH E 2003 | Chemical Engineering Computing/Statistics | 3
**CREDIT HOURS** | **15** | **CREDIT HOURS** | **16**
**JUNIOR**
CH E 3123 | Momentum, Heat and Mass Transfer II | 3 | CH E 3333 | 3
CH E 3473 | Chemical Engineering Thermodynamics | 3 | CH E 3432 | 2
CH E 3723 | Numerical Methods for Engineering Computation | 3 | CH E 4473 | 3
CHEM 3421 | Physical Chemistry Laboratory | 1 | HIST 1483 or HIST 1493 | 3
ENGR 2002 | Professional Development | 2 | Approved Elective, Western Culture (Core IV) | 3
Approved Elective, Social Science (Core III) | 3
**CREDIT HOURS** | **15** | **CREDIT HOURS** | **16**
**SENIOR**
P SC 1113 | American Federal Government (Core III) | 3 | CH E 4273 | 3
CH E 4153 | Process Dynamics and Control | 3 | CH E 3313 | 3
CH E 4253 | Process Design & Safety | 3 | Technical Elective II | 3
CH E 4262 | Chemical Engineering Design Laboratory | 2 | Advanced Chemistry Elective chosen from approved list maintained by department | 3
ENGR 2431 | Electrical Circuits | 1 | Approved Elective, World Culture (Core IV) | 3
ENGR 3431 | Electromechanical Systems | 1 | ENGR 2411 | 1
Technical Elective I | 3
**CREDIT HOURS** | **16** | **CREDIT HOURS** | **16**

1. CHEM 1315 can be substituted with CHEM 1335 or CHEM 1425 (H) (Fall only). CHEM 1435 can be substituted with CHEM 1415.
2. MATH 1823, MATH 2423, MATH 2433, and MATH 2434 sequence can be substituted for MATH 1914, MATH 2924, and MATH 2934.
3. Engineering transfer students may take ENGR 3511 in place of ENGR 1411.
4. To be chosen from the University-Wide General Education Approved Course List. Three of these hours must be upper-division (3000-4000). See list in the Class Schedule.
5. It is recommended that ENGR 2431 and ENGR 3431 be taken in the same semester. The courses are offered in sequential five-week blocks during the semester.
6. One of the Technical Elective I, Technical Elective II, or the Advanced Chemistry elective must be CH E. Prior faculty approval is needed.