Courses designated as Core I, II, III, IV or Capstone are part of the General Education curriculum. Students must complete a minimum of 40 hours of General Education courses, chosen from the language at the University will have an additional 6-10 hours of coursework.

Admission to the accelerated program is by application and requires a minimum OU GPA and combined GPA of 3.0. Students may enter the accelerated program based on the undergraduate admission 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.

B.S. Portion of the Program Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org

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

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

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### 2019 CHANGES PENDING APPROVAL

THIS PAGE DOES NOT REFLECT CHANGES CURRENTLY UNDER REVIEW FOR THE 2019-20 CATALOG YEAR.

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### Year | FIRST SEMESTER | Hours | SECOND SEMESTER | Hours
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**FRESHMAN**
ENGL 1113 | Principles of English Composition (Core I) | 3 | ENGL 1213 or EXPO 1213 | Principles of English Composition (Core I) or Expository Writing | 3
CHEM 1315 | General Chemistry (Core II) | 5 | MATH 2924 | Differential and Integral Calculus II | 4
MATH 1914 | Differential and Integral Calculus I (Core I) | 4 | HIST 1483 or HIST 1493 | United States, 1492 to 1865 (Core IV) or United States, 1865 to the Present | 3
PSC 1113 | American Federal Government (Core III) | 3 | PHYS 2514 | General Physics for Engineering and Science Majors (Core II) | 4
ENGR 1411 | Freshman Engineering Experience | 1 | C S 1323 | Introduction to Computer Programming for Programmers | 3
**CREDIT HOURS** | 16 | **CREDIT HOURS** | 17
**Sophomore**
MATH 2934 | Differential and Integral Calculus III | 4 | C S 2413 | Data Structures | 3
PHYS 2524 | General Physics for Engineering and Science Majors | 4 | CEES 2153 | Mechanics of Materials | 3
CEES 2113 | Statics | 3 | ISE 2303 | Design and Manufacturing Process | 3
ISE 2823 | Enterprise Engineering | 3 | ISE 2311 | Computer Aided Design and Graphics Laboratory for Industrial Engineers | 1
C S 2334 | Programming Structures and Abstractions | 4 | ISE 3295 | Applied Engineering Statistics | 3
**CREDIT HOURS** | 18 | **CREDIT HOURS** | 16
**Junior**
ISE 3304 | Design and Manufacturing II | 4 | ISE 4223 | Fundamentals of Engineering Economy | 3
ISE 4113 | Spreadsheet Dec Support Sys | 3 | ISE 4563 | Quality & Reliability Engineering | 3
ISE 4553 | Data-Driven Decision Making I | 3 | ISE 4633 | Probabilistic Systems Models | 3
ISE 4623 | Deterministic Systems Models | 3 | ISE 4804 | Ergonomics in Systems Design | 4
C S 3203 | Software Requirements and Specifications | 3 | ENGR 2461 | Thermodynamics | 1
**CREDIT HOURS** | 16 | **CREDIT HOURS** | 18
**Senior**
ISE 4333 | Production Systems/Operations | 3 | DSA 5113 | Advanced Analytics and Metaheuristics | 3
ISE 5663 | Systems Analysis Using Simulation | 3 | ISE 4393 | Capstone Design Project (Capstone) | 3
ISE 4383 | Systems Evaluation | 3 | Approved Elective: Social Science (Core IV) | 3
ISE 5853 | Data-Driven Decision Making II | 3 | Approved Elective: Non-Western Culture (Core IV) | 3
DSA 4513 | Database Management Systems | 3 | Approved Elective: Western Civ. & Culture (Core IV) | 3
ENGR 2431 | Electrical Circuits | 3 | **CREDIT HOURS** | 16
**CREDIT HOURS** | 16 | **CREDIT HOURS** | 15
**Senior Year**
DSA 4413 | Algorithm Analysis | 3 | Graduate Elective | 3
DSA 5113 | Intelligent Data Analytics | 3 | Graduate Elective | 3
Graduate Elective | 3 | DSA 5900 | Professional Practice | 4
Graduate Elective | 3 | **CREDIT HOURS** | 12

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1. CHEM 1315 can be substituted with CHEM 1335 (Fall only).
2. MATH 1914, MATH 2423, MATH 2433, and MATH 2443 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 12 hours must be upper-division (3000-4000). See list in the Class Schedule.
These courses are dual-counted, fulfilling requirements for both the undergraduate degree and the graduate business degree.

To be approved by the DSA graduate liaison.