ACADEMIC YEAR

For Students Entering the Oklahoma State System for Higher Education Summer 2019 through Spring 2020

General Requirements

Minimum Total Credit Hours: 131
Minimum Retention/Graduation Grade Point Averages:
Overall - Combined and OU: 2.0
Major - Combined and OU: 2.0

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 University-Wide General Education Approved Course List.

OU encourages students to complete at least 33 hours of applicable coursework each year to have the opportunity to graduate in 4 years.

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

In order to progress in your curriculum in the Gallooly 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.

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 must take foreign language at the University will have an additional 6-10 hours of coursework.

Year | FIRST SEMESTER | Hours | SECOND SEMESTER | Hours
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FRESHMAN | ENGL 1113 Principles of English Composition (Core I) 3 | 3 | ENGL 1213 or EXPO 1213 Principles of English Composition (Core I) or Expository Writing 3 | 3
| CHEM 1315 General Chemistry (Core II) 1 | 5 | MATH 2924 Differential and Integral Calculus II 2 | 4
| MATH 1914 Differential and Integral Calculus I (Core I) 2 | 4 | HIST 1483 or HIST 1493 United States, 1492 to 1865 (Core IV) or United States, 1865 to the Present 4
| 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 3 | 1 | C S 1323 Introduction to Computer Programming for Programmers 3 | 3
| CREDIT HOURS | 16 | CREDIT HOURS | 17
SOPHOMORE | MATH 2934 Differential and Integral Calculus III 2 | 4 | CEES 2153 Mechanics of Materials | 3
| C S 2334 Programming Structures and Abstractions | 4 | ISE 2303 Design and Manufacturing Process | 3
| CEES 2113 Statics | 4 | ISE 2311 Computer Aided Design and Graphics Laboratory for Industrial Engineers | 1
| ISE 2823 Enterprise Engineering | 3 | ISE 3293 Applied Engineering Statistics | 3
| PHYS 2524 General Physics for Engineering and Science Majors | 4 | C S 2415 Data Structures | 3
| | | MATH 2513 Discrete Mathematical Structures | 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 3202 | 2 | ENGR 2461 Thermodynamics | 3
| | | ENGR 3441 Fluid Mechanics | 1
| | | Approved Elective: Artistic Forms (Core IV) 5 | 3
| CREDIT HOURS | 15 | CREDIT HOURS | 18
SENIOR | ISE 4333 Production Systems/Operations | 3 | ISE 4393 Capstone Design Project (Capstone) | 3
| ISE 4583 Systems Evaluation | 3 | ISE Elective | 3
| ISE 4663 Systems Analysis Using Simulation | 3 | Approved Elective: Non-Western Culture (Core IV) 4 | 3
| ISE 4853 Data-Driven Decision Making II | 3 | Approved Elective: Social Science (Core III) 5 | 3
| C S 4513 Database Management Systems (or other C S Elective) 5 | 3 | Approved Elective: Western Civ. & Culture (Core IV) 4 | 3
| ENGR 2431 Electrical Circuits | 1 | | |
| CREDIT HOURS | 16 | CREDIT HOURS | 15

1 CHEM 1315 can be substituted with CHEM 1335 (Fall only).
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 12 hours must be upper-division (3000-4000). See list in the Class Schedule.
5 To be chosen from the C S Elective list available in the ISE office, CEC 116.

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