from other colleges of the University. Upon satisfactory completion of one of the curricula, a student will be recommended for a degree, in most cases qualified by the name of the engineering field pursued.

Faculty
The University of Oklahoma celebrated its centennial of engineering education in the 2009-10 academic year. As the Gallogly College of Engineering completes its first hundred years and looks forward to the next, the faculty is dedicated to excellence in carrying out the University mission of teaching, research and service. The faculty are drawn from many of the nation's leading universities, including University of California, Georgia Tech, MIT, Rice, and Yale, to name a few. Over one in four faculty members in the college hold an endowed chair or professorship, and one in five hold Presidential Professorships. Four hold University of Oklahoma David Ross Boyd Professorships and eight hold George Lynn Cross Research Professorships. Many of them are recognized as Fellows of national professional societies. In addition, several of the faculty members advise student organizations, including design teams that compete at the championship level in national and international competitions.

Computing
The OU Network consists of a high-speed backbone with connections to faculty, staff, laboratory, and classroom computers. Wireless technology extends the network to cover the engineering buildings, outside areas, laboratories, and classrooms. For more detailed information, visit the OU Information Technology Support page.

Programs Offered
• College of Engineering Administered Programs
  • Engineering Leadership, Undergraduate Certificate
    • Engineering Leadership Course Lists
  • Engineering Leadership: Sustainability, Undergraduate Certificate
    • Engineering Leadership Sustainability Course Lists
  • Engineering Leadership and Management, M.S.
    • Electives Course List
• School of Aerospace and Mechanical Engineering
  • Aerospace Engineering, B.S.
  • Mechanical Engineering (Standard), B.S.
  • Mechanical Engineering - Premedical Option, B.S.
  • Aerospace Engineering, B.S./M.S.
  • Mechanical Engineering (Standard), B.S./M.S.
  • Aerospace Engineering, M.S.
  • Mechanical Engineering, M.S.
  • Aerospace Engineering, Ph.D.
  • Mechanical Engineering, Ph.D.
• Cellular and Behavioral Neurobiology: Aerospace and Mechanical Engineering, Ph.D.
• Stephenson School of Biomedical Engineering
  • Biomedical Engineering, B.S.
    • BME Course Lists
  • Biomedical Engineering, B.S./M.S.
  • Biomedical Engineering, M.S.
    • Course Lists
  • Biomedical Engineering, Ph.D.
• School of Sustainable Chemical, Biological and Materials Engineering
  • Chemical Engineering (Standard), B.S.
    • Course Lists
Gallogly College of Engineering

- Chemical Engineering - Bioengineering Option, B.S.
- Chemical Engineering - Pre-Medical Option, B.S.
- Chemical Engineering - Sustainability Option, B.S.
  • Course Lists
- Chemical Engineering (Standard), B.S./M.S.
  • Advanced Chemistry Electives Course Lists
- Chemical Engineering, M.S.
- Sustainability - Energy and Materials Management, M.S.
  • Electives Course List
- Chemical Engineering, Ph.D.

- School of Civil Engineering and Environmental Science
  • Architectural Engineering, B.S.
  • Civil Engineering, B.S.
  • Environmental Engineering, B.S.
  • Environmental Science, B.S.
  • Environmental Science, Minor
  • Water and Sanitation for Health and Sustainable Development, Minor
  • Architectural Engineering, B.S./Civil Engineering, M.S.
  • Civil Engineering, B.S./M.S.
  • Environmental Engineering, B.S./M.S.
  • Environmental Science, B.S./M.S.
  • Civil Engineering: Geotechnical Engineering, M.S.
    • Geotechnical Engineering Electives Course List
  • Civil Engineering: Geotechnical Engineering (Online), M.S.
  • Civil Engineering: Structural Engineering, M.S.
    • Structural Engineering Electives Course List
  • Civil Engineering: Structural Engineering (Online), M.S.
  • Civil Engineering: Transportation Engineering (Online), M.S.
  • Civil Engineering: Water Resources Engineering, M.S.
    • Water Resources Engineering Electives Course List
  • Civil Engineering: Water Resources Engineering (Online), M.S.
  • Environmental Engineering, M.S.
    • Environmental Engineering Electives Course List
  • Environmental Science, M.E.S.
    • Environmental Science Electives Course List
  • Hydrology and Water Security (Online), M.E.S.
    • Hydrology and Water Security Guided Electives
  • Civil Engineering, Ph.D.
  • Environmental Engineering, Ph.D.
  • Environmental Science, Ph.D.

- School of Computer Science
  • Computer Science, B.S.
    • Elective Course Lists
  • Computer Science, Minor
  • Computational Technology, Minor
  • Computer Science, B.S./M.S.
    • BS/MS Elective Course Lists
  • Computer Science, M.S.
    • Computer Science, M.S. Approved Course List
  • Computer Science, Ph.D.

- Program in Data Science and Analytics
  • Data Science and Analytics, Undergraduate Certificate
  • Data Science and Analytics Undergraduate Certificate Electives
  • Data Science and Analytics, M.S.
  • Data Science and Analytics, Graduate Certificate
  • Data Science and Analytics, Ph.D.

- School of Electrical and Computer Engineering
  • Computer Engineering, B.S.
  • Electrical Engineering, B.S.
  • Electrical and Computer Engineering, Minor
  • Computer Engineering, B.S./Computer Science, M.S.
  • Computer Engineering, B.S./Electrical and Computer Engineering, M.S.
  • Electrical Engineering, B.S./Electrical and Computer Engineering, M.S.
  • Electrical and Computer Engineering, M.S.
  • Electrical and Computer Engineering, Ph.D.

- Department of Engineering
  • Engineering, M.S.
  • Engineering, Ph.D.
  • Engineering: Education, Ph.D.

- Program in Engineering Physics
  • Engineering Physics, B.S.
  • Engineering Physics, M.S.
  • Engineering Physics, Ph.D.

- School of Industrial and Systems Engineering
  • Industrial and Systems Engineering, B.S.
  • Industrial and Systems Engineering - Analytics Option, B.S.
  • Industrial and Systems Engineering - Pre-Medicine Option, B.S.
  • Industrial and Systems Engineering, B.S./M.S.
  • Industrial and Systems Engineering, B.S./Data Science and Analytics, M.S.
  • Industrial and Systems Engineering, B.S./M.B.A.
  • Industrial and Systems Engineering - Analytics, B.S./M.S.
  • Industrial and Systems Engineering - Analytics, B.S./Data Science and Analytics, M.S.
  • Industrial and Systems Engineering, M.S.
    • Industrial Systems and Engineering Electives Course List
  • Industrial and Systems Engineering, Ph.D.

Programs & Facilities
The Gallogly College of Engineering is primarily located on the northeast corner of the University's Norman campus. Within the Gallogly College of Engineering, there are 12 engineering programs and nearly 40 degree options. In addition to these degree offerings, the college also offers a collaborative program in engineering physics and a program in data science and analytics.

About the College:
The mission of the Gallogly College of Engineering is to foster creativity, innovation and professionalism through dynamic research, development and learning experiences. For more information, view the 2020-2025 Strategic Plan.

Facilities Include:
• The Carson Engineering Center includes classrooms and laboratories for the School of Civil Engineering and Environmental Science, the School of Industrial and Systems Engineering and the Data Science and Analytics Institute.
• Felgar Hall houses laboratories and facilities for the School of Aerospace and Mechanical Engineering and the Williams Student Services Center (WSSC).
• Sarkeys Energy Center houses the School of Chemical, Biological and Materials Engineering.
• Devon Energy Hall has classrooms, team and forum rooms, and laboratories for the School of Computer Science and the School of Electrical and Computer Engineering.
• Gallogly Hall houses the forty-year award winning Diversity and Inclusion program as well as the Stephenson School of Biomedical Engineering.
• The Exxon-Mobil Lawrence G. Rawl Engineering Practice Facility is the home for engineering outreach, and houses nearly 10 competition teams. Also included in the REPF is the Holmes Leadership Program for Engineers and Scientists, Women in Engineering program, Sooner Engineering Education Center, as well as more than fifty student organizations and clubs. Every year, thousands of K-12 students visit the REPF to observe engineering students design, build and test their projects.
• The University’s south and north campuses house additional offices and labs in support of the college’s research enterprise and makes OU Engineering one of the finest engineering education complexes in the Southwest.

Laboratories:
The laboratories of the college are well-equipped to demonstrate the principles of courses offered and are described in other sections of this catalog. Through these laboratories and the actual use of apparatus, instruments, and equipment, a student is able to make practical applications of the theories and principles which the student has learned in the classroom. Students of the college are active in fieldwork. In addition, laboratories and other facilities of the college are used by students and faculty members in the classroom and for research and experiments which add value to the global economy.

View list of nearly 50 labs in the Gallogly College of Engineering.

Undergraduate Study
Undergraduate Advising at Williams Student Services Center
Whether you are a prospective, first-time, continuing or graduating student, the Williams Student Services Center serves as the “hub” for providing academic and curricular guidance. See our advising team for basic information about academic programs and advising, scholarships, student groups, organizations, diversity and inclusion, tutoring, mentoring, and graduation. Advisors are available to answer questions and provide guidance regarding courses, academic performance, scholastic requirements and transfer equivalencies.

The Gallogly College of Engineering provides students the support of a faculty and college academic advisor related to their discipline. Students risk delaying their graduation if they do not make a timely selection of a major. Students are advised each semester prior to enrollment.

All incoming engineering freshmen are advised during the University's New Sooner Orientation program coordinated by University College (UC) and the OU Scholars Program. Freshmen will continue to be advised by a UC academic advisor until the student has completed 24 credits hours in residence at OU and has maintained at least a minimum 2.0 GPA, at which point students will be switched to their degree granting college.

Study Abroad | International & Global Opportunities
Educational and co-curricular experiences are offered through the College’s Study Abroad and International & Global Opportunities (IGO) program. This program includes engineering specific coursework, opportunities for practice related service learning, internships and research. These programs are open to current OU students in collaboration with the University’s Education Abroad Office and affiliated partner universities.

Engineering Laptop Policy
Visit the Gallogly College of Engineering’s webpage to learn more about the college’s laptop policy.

Admission to the Gallogly College of Engineering
The OU Gallogly College of Engineering uses the same admissions policies for accepting new students into its programs as that of the institution, with the exception of Aerospace Engineering and Mechanical Engineering applicants.

Freshman Admission
For more information regarding freshman admission, visit the OU Admissions webpage.

Transfer Admissions
For more information regarding transfer engineering admission, visit the OU Admissions webpage.

Resident transfer: 2.5 combined GPA for students with less than 60 hours or 2.0 for students with 60 or more hours earned.

Non-resident transfer: The admission of non-resident transfer students is more restrictive for GCoE programs, and is administered on the college’s behalf by the Office of Admissions and is as follows: 3.0 combined retention GPA regardless of the number of hours earned.

The Office of Admissions conducts all initial assessment of transfer coursework. Transfer students who wish to apply un-equated transfer courses towards degree completion are urged to meet with one of the college’s academic advisors.

Major specific transfer coursework will be reviewed by the faculty in the specific discipline for evaluation. For more information, visit the University’s Transfer Equivalency Database.

AME Course Admissions:
For AME transfer students matriculating into the Oklahoma State System Fall 2015 or later: 3.0 combined GPA in 24 or more credit hours, C minimum in the following courses with 3.0 combined GPA:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1914</td>
<td>Differential and Integral Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 1823</td>
<td>Calculus and Analytic Geometry I</td>
<td></td>
</tr>
<tr>
<td>MATH 2924</td>
<td>Differential and Integral Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 2423</td>
<td>Calculus and Analytic Geometry II</td>
<td></td>
</tr>
<tr>
<td>PHYS 2514</td>
<td>General Physics for Engineering and Science Majors</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1315</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
</tbody>
</table>
Scholastic Requirements & Equivalencies

Academic Standards

Students in the Gallogly College of Engineering must meet the following academic standards:

- A minimum grade of C in each course required in the curriculum.
- Both an OU retention and a combined retention grade point average of 2.00 or higher.¹
- A 2.00 minimum combined retention average for all attempted courses presented to satisfy curriculum requirements. Curriculum requirements include every course on the selected degree requirement sheet.¹
- A 2.00 minimum OU retention average for all courses attempted at the University of Oklahoma used to satisfy curriculum requirements.¹
- No more than two unsuccessful attempts (D or less) in a course required in the curriculum.

¹Note: The Gallogly College of Engineering (GCoE) requires a 2.0 OU and Combined GPA to be in good academic standing. If the OU and/or Combined GPA remains below a 2.0 for two consecutive semesters (excluding summer term), the student will be stopped from the GCoE. Specific accelerated degree programs within the Gallogly College of Engineering may require a higher minimum grade point average. Please contact Williams Student Services Center (WSSC) 112 Felgar Hall for specific requirements.

For purposes of graduation and retention, these grade point averages may be affected by academic forgiveness policies. Students should consult the “Admissions, Enrollment and Student Financial Services” section of this catalog for more information.

Students who do not meet these standards will be notified by the Director of Advising and guided to meet with their assigned college advisor for support.

The University of Oklahoma utilizes a 4.0 or A=4, B=3, C=2, D=1, F=0 system. The Gallogly College of Engineering requires:

- a minimum grade of C in any course applied toward degree completion
- P/NP coursework does not count toward degree completion (except for those P/NP grades earned in SP2020 due to Covid-19.)
- S grades are accepted toward degree completion as obtained by Advanced Placement (AP), Departmental, higher level IBC, and CLEP exams

Time Limitations on Coursework

A student may elect to graduate under the requirements for an undergraduate degree plan in effect at the time of their first enrollment in the state system, provided that they complete the work for a degree within a maximum of six years, which is reflected in the degree check. If the work for a degree covers a period longer than that specified by the college, the college will determine the degree plan to be in effect for that student’s graduation.

A student whose initial enrollment in the state system is during the summer session will be subject to the University of Oklahoma catalog in effect for the year following that summer.

Credit in the student’s major field or area of concentration that is more than 10 years old may not be applied toward a bachelor’s degree unless is it validated by the major department, or by the departments in the student’s area of concentration. (The term “area of concentration” is included in addition to “major field” to allow for those cases in which the equivalent of a major may be earned by a combination of work in several departments.)

Honor Roll

To be eligible for the Dean’s Honor Roll, a full-time undergraduate student must earn at least 12 or more hours and attain a grade point average of 3.00 or higher during a regular fall or spring semester. Part-time students may qualify for the honor roll by earning at least six but less than 12 hours and attaining a grade point average of 3.00 or higher, provided they have no W’s for that semester. There is no college honor roll during the summer session or during intersessions, and hours and grades earned during these sessions are not included in any way in determining eligibility for inclusion on regular semester honor rolls.

State-Mandated Articulation Agreements that Impact Engineering Programs

To facilitate the transfer of students within Oklahoma’s state system of higher education, the state Board of Regents created the Oklahoma State Regents for Higher Education Course Equivalency Matrix. The Regents established a policy that Freshman and Sophomore-level general education requirements are deemed satisfied for students who complete a two-year Associates of Arts or Associates of Science degree from an Oklahoma public college, and who transfer to a four-year university.

For these reasons, general education coursework readily transfers from Oklahoma colleges into OU. Additionally, if the student has completed the Associates of Arts or Associates of Science, and they earned a D in one of the general education courses used to complete that degree, the GCoE will accept the course toward degree completion unless it is a direct prerequisite for an engineering course.

Non-Collegiate Learning Experiences

For more information, visit the Academic Records and Transcripts webpage.

Enrollment & Major Declaration

Enrollment Limitations

School of Aerospace and Mechanical Engineering

Admission to the AME course program is required prior to enrolling in any AME courses for the engineering major.

Enrollment into AME Courses

Students entering college in the Oklahoma State System of Higher Education prior to summer 2015 are required to earn a 2.80 overall GPA and complete the requisite courses listed in the first and second year on the degree sheet in order to advance into upper-division AME coursework.

Students entering college in the Oklahoma State System of Higher Education summer 2015 or after are required to accrue at least 24 credits with an overall retention GPA of 3.0 -and- successfully complete the following with a 3.0 overall retention GPA in these specific courses, with no grade less than C:

<table>
<thead>
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<tr>
<td>MATH 2924</td>
<td>Differential and Integral Calculus II</td>
<td>4</td>
</tr>
</tbody>
</table>
will not be expected to take more than two examinations in one day.

students as substitutes for final examinations are prohibited. A student Special early examinations given to individual students or groups of member is authorized to depart from this regulation or from the published courses and project type design courses and seminars. No faculty undergraduate courses excluding directed readings, pure laboratory be given during the regularly scheduled examination periods in all The Gallogly College of Engineering requires final examinations to information will be directed to the student's college dean.

instructor may report this fact to the Office of Academic Records and the instructor. When absences seriously affect a student's classwork, the policy concerning class attendance requirements, as well as announced A student is responsible for the prerequisite and the content of any course and the Director of Advising in the Williams Student Services involved. Approval must be obtained from the professor teaching the College of Engineering and in some cases to those admitted to a specific major must be completed with a grade of C or better, (except for those P/ NP grades earned in SP2020 due to Covid-19.)

Minimum Grade Requirement/Course Repeats
Students may retake a course in their curriculum a maximum three times (i.e. retake due to not completing the course with a grade of C or above.) If the course is completed unsuccessfully after three attempts (grades such as: I, AU, W, AW, D, F), and if it is a course required in any curricula in the College of Engineering, the student will receive an Enrollment Stop from the Gallogly College of Engineering. (Note: A first course attempt which results a final grade of I, W, AW, or an audit A) is not counted in the “three attempts” rule.) If the course is taken unsuccessfully three times and is required only in the major, the possibility of a student continuing in the Gallogly College of Engineering in a different major will be determined on an individual basis. When courses are repeated, the grade of the last (most recent) attempt is the grade of record.

Enrollment in Upper-division Courses
Enrollment in upper-division Gallogly College of Engineering courses, except any courses specifically exempted in the General Catalog or Class Schedule, is restricted to students who are admitted to the Gallogly College of Engineering and in some cases to those admitted to a specific degree program, have completed the necessary grade and course prerequisites, and are advised into the classes by their engineering faculty or staff advisor. Qualified students from outside the Gallogly College of Engineering are welcome in advanced courses if they have completed the necessary grade and course prerequisites, and are encouraged to explore specific interests with the schools and instructors involved. Approval must be obtained from the professor teaching the course and the Director of Advising in the Williams Student Services Center (WSSC), 112 Felgar Hall.

Conduct of Engineering Courses
A student is responsible for the prerequisite and the content of any course in which they are officially enrolled. The establishment of specific policy concerning class attendance requirements, as well as announced and unannounced examinations, is the responsibility of the individual instructor. When absences seriously affect a student's classwork, the instructor may report this fact to the Office of Academic Records and the information will be directed to the student's college dean.

The Gallogly College of Engineering requires final examinations to be given during the regularly scheduled examination periods in all undergraduate courses excluding directed readings, pure laboratory courses and project type design courses and seminars. No faculty member is authorized to depart from this regulation or from the published examination schedule for a class or an individual without prior approval. Special early examinations given to individual students or groups of students as substitutes for final examinations are prohibited. A student will not be expected to take more than two examinations in one day.

Pass/No Pass Course Enrollments
Pass/No Pass Course Enrollments may not be used to satisfy Gallogly College of Engineering course requirements. Engineering students may not proceed in their major courses until they have achieved a minimum grade of C in all prerequisites. All required courses listed on the official University of Oklahoma degree checksheet (p. 1) for any engineering major must be completed with a grade of C or better, (except for those P/NP grades earned in SP2020 due to Covid-19.)

Minimum Grade Requirement/Course Repeats
Students may retake a course in their curriculum a maximum three times (i.e. retake due to not completing the course with a grade of C or above.) If the course is completed unsuccessfully after three attempts (grades such as: I, AU, W, AW, D, F), and if it is a course required in any curricula in the College of Engineering, the student will receive an Enrollment Stop from the Gallogly College of Engineering. (Note: A first course attempt which results a final grade of I, W, AW, or an audit A) is not counted in the “three attempts” rule.) If the course is taken unsuccessfully three times and is required only in the major, the possibility of a student continuing in the Gallogly College of Engineering in a different major will be determined on an individual basis. When courses are repeated, the grade of the last (most recent) attempt is the grade of record.

Enrollment in Upper-division Courses
Enrollment in upper-division Gallogly College of Engineering courses, except any courses specifically exempted in the General Catalog or Class Schedule, is restricted to students who are admitted to the Gallogly College of Engineering and in some cases to those admitted to a specific degree program, have completed the necessary grade and course prerequisites, and are advised into the classes by their engineering faculty or staff advisor. Qualified students from outside the Gallogly College of Engineering are welcome in advanced courses if they have completed the necessary grade and course prerequisites, and are encouraged to explore specific interests with the schools and instructors involved. Approval must be obtained from the professor teaching the course and the Director of Advising in the Williams Student Services Center (WSSC), 112 Felgar Hall.

Conduct of Engineering Courses
A student is responsible for the prerequisite and the content of any course in which they are officially enrolled. The establishment of specific policy concerning class attendance requirements, as well as announced and unannounced examinations, is the responsibility of the individual instructor. When absences seriously affect a student's classwork, the instructor may report this fact to the Office of Academic Records and the information will be directed to the student's college dean.

The Gallogly College of Engineering requires final examinations to be given during the regularly scheduled examination periods in all undergraduate courses excluding directed readings, pure laboratory courses and project type design courses and seminars. No faculty member is authorized to depart from this regulation or from the published examination schedule for a class or an individual without prior approval. Special early examinations given to individual students or groups of students as substitutes for final examinations are prohibited. A student will not be expected to take more than two examinations in one day.

Academic Appeals
The Gallogly College of Engineering has established an Academic Appeals Panel to hear grade appeals and academic misconduct cases. To obtain the procedures to be followed, a student should contact the Dean's office in 107 Carson Engineering Center, and refer to Title 14 of the Student Code.

Credit Hour Load
Limits on the number of credit hours a student may enroll in each semester without special permission can be obtained from the OU Enrollment Services Office, Buchanan Hall room 230.

Change of Major Requests
Students interested in pursuing a change of major within engineering, or who are pursuing a major in another college on campus but wish to switch to an engineering program must meet with an academic advisor in WSSC to change majors. The advisor will assess the student's GPA and completed courses. If the student lacks necessary preparation to begin coursework in the major, the student might be advised to remain in their current major until they are adequately prepared for the course curriculum. Approved changes of major requests are only processed within the first 10 weeks of the semester, or after final grades are posted. In accordance with State Regents' requirements, students are assigned to the degree program year that was current at the time they entered the Oklahoma State System of Higher Education.

Graduation Requirements
The student must satisfy the following requirements:

- **Curricular Courses:** complete all prescribed curricular courses or equivalent courses as approved by the faculty with a minimum grade of C in each course.
  - Students graduating from a program accredited by the Engineering Accreditation Commission of ABET must complete 37.5% or 48 hours of engineering and 25% or 32 hours of combined mathematics (at the calculus level or above), physics, chemistry, or other science coursework.
  - Students graduating from a program accredited by the Computing Accreditation Commission of ABET must complete a minimum of 40 hours in computing, 15 hours of mathematics and 30 hours of combined mathematics and science coursework with some exposure to laboratory work.

- **Two-year College Transfer Credits:** a minimum of 60 semester hours must be earned in a senior college or four-year school for a baccalaureate degree.

- **Degree Requirements:** fulfill all requirements listed on the official degree checksheet (p. 1). Gallogly College of Engineering academic advisors in the Williams Student Services Center (WSSC) clear undergraduate degrees and encourage consultation remaining degree requirements. However, responsibility for meeting graduation requirements lies with the student.
  - Be in good academic standing both scholastically and in accordance with academic integrity standards of the College and University.
  - Apply for graduation of your respective degree by the deadline for the semester in which you intend to graduate.
  - To ensure that the above conditions will be met, students are encouraged to request a degree check in the Williams Student Services Center (WSSC). This action should be taken at least two semesters before the student expects to graduate. The student
can access their degree audit at any time online through Degree Navigator.
NOTE: Students will not be cleared for graduation if they have an I or N grade on their transcript. These must be resolved prior to degree clearance.

- **Residence Requirements** — to be recommended for a degree, a candidate must have:
  - spent two semesters or the equivalent in residence, with at least one semester enrolled as a College of Engineering student;
  - completed at OU 36 of the hours listed in the junior and senior years on their curriculum checksheet, 24 of these 36 hours must be in the major field;
  - fulfilled the grade and grade point requirements of the college and school

NOTE: Academic credit from any division of the University of Oklahoma — Norman campus, OU Health Sciences Center, OU-Tulsa, or Continuing Education — is considered resident credit at the University of Oklahoma. Grades and hours earned at any of these divisions are included in the OU retention and cumulative grade point averages for purposes of determining completion of degree requirements.

- **Undergraduate degrees offered in the Gallogly College of Engineering:**
  - **Bachelor of Science:** the Gallogly College of Engineering is organized into departments and schools. The degree of Bachelor of Science is qualified by the name of the engineering field pursued and is conferred upon graduates of the college.
  - **Honors:** the Honors College may recommend the degree **cum Laude, Magna cum Laude or Summa cum Laude.** Special requirements, in addition to the regular requirements for graduation, are approved by the Honors College.

Degrees are formally conferred at spring commencement and convocation, and fall convocation exercises. However, degrees are also awarded in absentia at the end of summer session. All diplomas are mailed to students following the official graduation date. The degree and date of the diploma are entered on the student’s permanent academic record. The date of graduation is the last day of the semester or summer session in which all requirements for the degree are completed. When a student completes all requirements for a degree, other than at the close of a semester or summer session, the Office of Academic Records, upon request, will issue a certified statement that the student is eligible for the degree as of the date when the requirements for the degree were completed.

### Graduate Study

**EMPOWERING YOU THROUGH LIFE-CHANGING LEARNING EXPERIENCES**

The Gallogly College of Engineering offers advanced degrees from seven schools.

The Gallogly College of Engineering is committed to fostering creativity, innovation and professionalism through dynamic research, development and learning experiences. We are committed to attracting a talented and diverse student body, and we empower our students through life-changing learning experiences, high-impact discoveries and innovations. Graduate programs, research and creative activity are key components in realizing this vision.

With nationally and internationally renowned faculty, world-class research facilities and talented students, we are leaders in a number of areas including weather radar, water resources, biomedical imaging, surface transportation and safety, and advanced materials. These areas of excellence, and many others, provide the foundation upon which our comprehensive selection of graduate degrees are built, including 12 doctoral programs and 14 masters programs.

Two closely affiliated programs are also available to students through Engineering Physics and the Mewbourne College of Earth and Energy. Please follow the links provided for a brief overview of the school or program. Please contact the appropriate school or program for further information on specific degree programs and areas of specialization offered.

- Aerospace and Mechanical Engineering
- Biomedical Engineering
- Chemical, Biomedical and Materials Engineering
- Civil Engineering and Environmental Science
- Computer Science
- Data Science and Analytics
- Electrical and Computer Engineering
- Engineering
- Engineering Physics
- Industrial and Systems Engineering

### Opportunities

**Gallogly Student Affairs Team (GSAT)**

Contact Randa Shehab, Senior Associate Dean for Academic Affairs and Faculty Development, for more information.

**Engineering Student Life**

Engineering Student Life promotes students’ professional and leadership development by supporting a variety of co-curricular opportunities. These opportunities include technical and professional societies, affinity groups, service organizations, social organizations, competitive student teams and more.

**Diversity and Inclusion**

The Diversity and Inclusion Program is open to all students in the Gallogly College of Engineering and the Mewbourne College of Earth and Energy. The D&I program facilitates the outreach, recruitment, retention and overall success of underrepresented minorities and populations.

Diversity, by its very nature, is conducive to providing a wide range of solutions and ideas that serve broader populations of society. Thus, it is equally important that we build a diverse student population with students from different backgrounds, experiences, knowledge and understanding. It is critical that our engineering students are well prepared to solve complex problems and develop new solutions working collaboratively in diverse teams. The D&I program provides academic and financial support, and professional development through a first-year engineering course, tutoring, mentoring, AT&T Summer
Bridge, employment assistance, alumni support and more. The D&I program supports our diverse engineering and science students such that they are well prepared for successful professional careers.

Women in Engineering
The GCoE proudly supports the advancement and achievement of women in engineering and sciences. Our goal is to increase the participation of women within the engineering and sciences profession through outreach and programs that ensure the success of our students academically, socially and professionally. The Gallogly College of Engineering reports just over 25% undergraduate women enrollment. The college serves to recruit, retain and mentor women in engineering, as well as to foster viable connections with industry.

Jerry Holmes Leadership Program for Engineers and Scientists
The Jerry Holmes Leadership Program for Engineers and Scientists (JHLP) provides leadership education for students in the Gallogly College of Engineering and the Newbourne College of Earth and Energy. Through JHLP's pillar-based approach, students enhance their capabilities across five domains: personal development, interpersonal relationship, management and teamwork, leadership, and intercultural competence. JHLP provides a variety of leadership development opportunities including Distinguished Speaker days, workshops, courses, and a biennial Leadership Symposium. Students have the option to further develop their leadership capabilities as Holmes Leadership Associates (HLAs). HLAs work with professional mentors to design a personal leadership development plan. They attend monthly topical meetings and other events where they hone their leadership skills, and they create real impact as leaders within the University and surrounding communities.

Engineering Student Competition Teams
The Gallogly College of Engineering supports a multitude of student organizations with the focus of competing in specific regional, national, and international engineering competitions. These teams give students a unique opportunity to work on interdisciplinary projects and apply their academic knowledge while learning hands-on skills that will help them in their future careers. Teams also work with faculty and staff on further developing their foundation of engineering and project management skills.

Competition team projects include building and designing planes, rockets, formula-one cars, off-road vehicles, steel bridges, concrete canoes, chemically-powered autonomous cars, and creating and programming robots.

International and Global Opportunities
The college’s IGO program facilitates study abroad, service learning, and international research opportunities for our engineering students. Through the college's campus-wide collaborations, our students are able to take required curricular and engineering courses while engaging in transformational experiences abroad. The IGO staff guide students through the application process, as well as managing program costs by providing individualized budgets and information about multiple funding opportunities. Students are prepared for their international experience prior to departure through a series of information sessions. Currently the college has programs in Arezzo, Italy; Clermont-Ferrand, France; and Puebla, Mexico. Students may also participate in a variety of other study abroad programs offered by the University. IGO also assist students who wish to engage in research abroad. Some of our most recent engineering research internships have been in Portugal, Spain, Canada, Ireland, India, and Australia.

Engineering Pathways Mentors
The Engineering Pathways Mentors Program fosters connections to the community within the Gallogly College of Engineering through student-to-student interaction. These interactions are based on service, dedication, respect, encouragement, and professionalism. Program members are current engineering students with excellent academic credentials, and a desire to provide strong mentorship and leadership. Program members serve as mentors to first-year engineering students. EP Mentors are selected through an application process.

Honor Societies
In addition to University-wide honor societies and organizations, the Gallogly College of Engineering has a robust participation in engineering honor societies such as Tau Beta Pi, Pi Tau Sigma, Sigma Gamma Tau, Chi Epsilon, Eta Kappa Nu and Alpha Pi Mu.

Tau Beta Pi
The Tau Beta Pi honor society, which was founded at Lehigh University in June 1885, offers students of technical schools membership in an honorary association. Students who are qualified in any branch of engineering may become members. The annual election to the society, which is based upon scholarship, integrity, breadth of interest (both inside and outside of engineering), adaptability and unselfish activity, is limited to the upper one-fifth of the senior class and to the students who have grade averages within the upper one-eighth of the junior class. The government of the organization in each chapter is under the direction of the elected student officers and an advisory board consisting of four faculty members of Tau Beta Pi. Membership in Tau Beta Pi is one of the highest scholastic honors that an undergraduate engineering student can receive. The Oklahoma charter was granted in 1926.

K-12 Outreach
Engineering faculty and students are actively engaged in promoting Science, Technology, Engineering and Math in K-12 education. The Gallogly College of Engineering offers a variety of programs to encourage kids to get excited about STEM education.

Scholarships and Financial Aid Information
Future Students
To be considered for first-year scholarships from the Gallogly College of Engineering, you must apply for admissions to the University of Oklahoma by December 15th of each year. Scholarships are competitive for students demonstrating strong academic merit, leadership, community service, co-curricular activities, financial need, etc. Incoming students can learn more about additional scholarship opportunities through the Office of Admissions & Recruitment.

Current Students
All undergraduate and graduate engineering students can apply for scholarships through the Centralized Academic Scholarship Hub (CASH). The deadline is February 1st of each year.

Financial Aid
The FAFSA (or Free Application for Federal Student Aid) is the government-provided application for need-based funds to help pay for college. OU highly recommends completing the FAFSA regardless of family's income.
Career Guidance
Our mission is to provide engineering students with a strong foundation for success through responsive, supportive and meaningful academic and career guidance. Each semester, students are required to meet with both their College and Faculty Advisors in order to assist with their academic progression and address concerns related to career pathways, internships, graduate school, etc. Faculty with past and/or current corporate collaborations are excellent resources for our students, as are the college’s alumni, many of whom welcome connecting with students regarding career questions. During the first-year Engineering Orientation and the second-year Professional Development courses, students are introduced to the career planning process and the assistance available via the OU Career Services. These courses also introduce students to undergraduate research experience programs and graduate school. The college also hosts a Graduate School Fair for the undergraduate students. The Gallogly College of Engineering collaborates with the OU Career Services Office to host two annual Career Fairs for engineering students; one in September and the other in February. The September career fair is the largest with an average of 140 companies seeking to recruit our students. Many companies also commit to a regular presence on campus as speakers at student organizations’ regular meetings or “Tech Talks.”

The OU Career Services offers specialized services to students and alumni, that includes:

· Job search and interviewing skills
· Resume and cover letter writing
· Major specific career advice
· Internship and Job postings
· Information regarding Career Fairs and on-campus interviews

Co-op Program
The Co-op Program offers a work-study experience that combines a sequence of academic study and engineering employment in industry or government. Participating in the Co-op Program allows the engineering student to gain first-hand experience in the application of academic studies to engineering problems.

Participation in the Co-op Program is optional and open to students enrolled full-time in a degree program administered by the Gallogly College of Engineering. Students who wish to participate in the Co-op Program must have completed all of the requirements of the first year of their degree program with a minimum 2.50 GPA. Students also must have the approval of the director of the school of their major. Employment in a Co-op position requires the approval of the participating company. Interested students should apply as soon as possible during their first three semesters on campus.

The time required to complete an engineering degree program as a Co-op student will be longer than the usual eight-semester program. (Caution: Major courses in several GCoE degree programs are sequential and offered only one time per year.) For further information and application forms, contact the Gallogly College of Engineering Undergraduate Advising Office.

Work Experience
Students may request to receive credit for internship or co-op experiences. Specific faculty oversee such enrollments and may require the student to provide a final project report and presentation. The faculty of the student’s program determine if the credits may apply towards degree completion, and if so, if the credits will apply as a professional or technical elective in the student’s program. For more information, contact the college’s Undergraduate Advising Office.

Internships
The Gallogly College of Engineering encourages all students to seek an internship either with college faculty assisting with research or with industry. Both the college’s Undergraduate Advising office and the OU Career Services office work to facilitate this process.