



Ole Miss Engineering

New Student Orientation
Dean's Office Academic Overview

Engineering

The profession in which a knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind.

Ole Miss Undergraduate Engineering Degrees

Biomedical Engineering

Chemical Engineering

Civil Engineering

**Mechanical
Engineering**

Computer Engineering

Computer Science

General Engineering

Electrical Engineering

Geology

Geological Engineering

Why Engineering?

Job Satisfaction

Varied Opportunities

Challenging Work

Intellectual Development

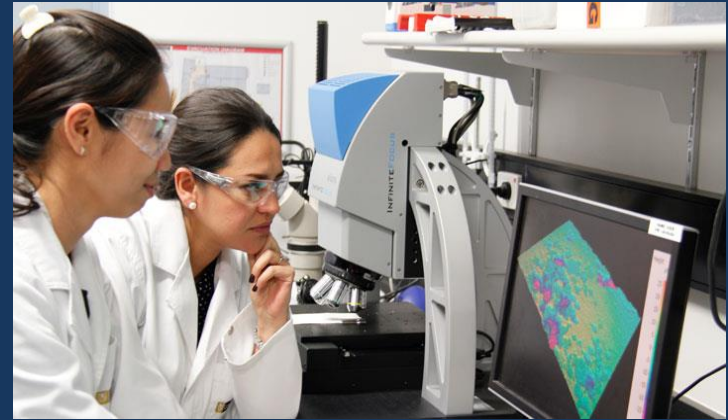
Social Impact

Financial Security

Prestige

Use/Develop Innovative Technology

Creative Thinking



Careers in Engineering

- ⦿ Manufacturing
- ⦿ Energy Production
- ⦿ Pharmaceuticals
- ⦿ Petrochemicals
- ⦿ Plastics
- ⦿ Biotechnology
- ⦿ Environmental Consulting
- ⦿ Electronics
- ⦿ Aerospace
- ⦿ Food Products
- ⦿ Personal Care Products
- ⦿ Infrastructure
- ⦿ Structural Engineering
- ⦿ Geotechnical Engineering
- ⦿ Water Resources
- ⦿ Environmental Engineering
- ⦿ Transportation
- ⦿ Construction Management
- ⦿ City Planning/ City Engineer
- ⦿ Architecture
- ⦿ Systems Analyst
- ⦿ Software Engineer
- ⦿ Systems Engineer
- ⦿ Programmer
- ⦿ Database Administrator
- ⦿ Webpage Design
- ⦿ Network Administrator
- ⦿ Data Mining

Careers in Engineering

- ⦿ Computer Engineering
- ⦿ RF/Wireless
- ⦿ Robotics
- ⦿ Utility Companies
- ⦿ Radar Systems
- ⦿ Manufacturing
- ⦿ Aerospace
- ⦿ Bio-Medical
- ⦿ Automotive
- ⦿ Telecommunications
- ⦿ Mapping & Resource Assessment
- ⦿ Geotechnical Engineer
- ⦿ Project Manager in Mining/Oil & Gas
- ⦿ Inspector – Construction Projects
- ⦿ Oceanographer – Marine Geological Studies
- ⦿ Research Scientist
- ⦿ Secondary Teacher or Professor
- ⦿ Environmental Law
- ⦿ Automotive
- ⦿ Aerospace
- ⦿ Manufacturing
- ⦿ Material Science
- ⦿ Biomedical
- ⦿ Nanotechnology
- ⦿ National Defense
- ⦿ Product Design
- ⦿ Robotics
- ⦿ Technology

University of Mississippi Engineering Honor Code

**“I PLEDGE MYSELF TO UPHOLD THE HIGHEST
STANDARDS OF HONESTY IN MY UNIVERSITY
LIFE AND I WILL NOT TOLERATE DISHONESTY
ON THE PART OF OTHERS.”**

Academic Advising & Guidance

GPA (min requirements) for BS Degree

- (1) > 2.00 GPA Overall on all college work
- (2) > 2.00 GPA cumulative in residence (at UM)
- (3) > 2.00 GPA in School of Engineering coursework

GPA (Latin Honors)

CUM LAUDE: >3.5 and <3.75 GPA

MAGNA CUM LAUDE: >3.75 and <3.90 GPA

SUMMA CUM LAUDE: >3.90 GPA

Academic Advising & Guidance

Minor

Not Required for Engineering, but is available

Typically consists of 18 hours/ 2.0 minimum GPA

Common minors: Business, Mathematics, Modern Language, Military Science, Naval Science, and more

AP/CLEP/HS Dual Enrollment/IB Credit

We recognize credits earned by all these methods in accordance with UM undergraduate catalog

Academic Advising & Guidance

Honors College

Honors 101 & 102 used to satisfy 6 hour WRITING requirement (WRIT 101 & 102)

Alternatively – students can apply HON 102 & 102 credits to humanities or social science electives

Forgiveness Policy

Grades of “C-”, “D” or “F” may be forgiven in accordance with policy

Up to 14 credit hours are eligible for forgiveness during undergrad career, and thus not used in computing the cumulative GPA

Academic Advising & Guidance

Chemistry 105, Math 261, Biology 160
Recommended pre-req: 25 ACT Math subscore

OR

**Math 125 "Basic Math for Science &
Engineering" with a B or higher**

Academic Advising & Guidance

The general education requirements of the undergraduate degree programs of the School of Engineering are consistent with The University of Mississippi's tradition of educating engineering leaders through the school's strong interaction with the university's liberal arts programs. Further, these requirements are established to fulfill the school's published mission of preparing "students with a broad-based education" intended to develop "leadership skills" and "communication skills."

All degrees from the School of Engineering require a minimum of 18 hours of SS / H / FA electives*

Individual departments impose specific requirements. See advisor and refer to student handbook.

***Social/Behavioral Science, Humanities, Fine Arts**



Dr. Travis Hitchcock,
Assistant Director for
Advising – Center for
Student Success & First
Year Experience

Freshman Year Engineering Advisor

Sample Course Curriculum

Advising Sheet: B.S. in Chemical Engineering – Standard Option (For Graduating Class of 2022 and after)

Name: _____

ID: _____

Fall					Spring				
Freshman:	Hrs	Grade	Sem	Prereq/Coreq		Hrs	Grade	Sem	Prereq/Coreq
Writ 101	(3)					Writ 102	(3)		
Math 261	(3)			Math ACT 24		Math 262	(3)		Math261 (Min C)
Chem 105	(3)			Math ACT 25, Chem115		Chem 106 ⚓	(3)		Chem105 (Min C), Chem116
Chem 115	(1)			Chem105		Chem 116 ⚓	(1)		Chem106 (Min C)
Ch E 101 ⚓	(2)					Ch E 251	(3)		Math 261
SS/H/FA	(3)					Phys 211	(3)		Math262, Phys221
						Phys 221	(1)		Phys211

Quick Facts - Advising

- Full time status is 12 credit hours – waitlisted courses do not count
- Mississippi residents must enroll in 15 hours to maintain eligibility for some financial aid programs
- You will meet with your academic advisor every semester for registration

Quick Facts - Advising

- Until you meet your advisor, a hold will remain on your account that prevents you from registering.
- Dropping classes may be okay, but we encourage students to discuss with an advisor first.
- Courses may be pre-requisites or sequenced courses

Quick Facts - Grades

- Parents may have access to student grades (if permission is granted).
- FERPA prevents faculty/staff from discussing academic issues without student consent.
- We encourage parents to communicate with student directly before contacting the university.

Quick Facts – Student Support

- Tutoring services are available through the Dean's office

Quick Facts – Graduate School

- Ole Miss offers graduate programs in engineering at the Masters and Ph.D. levels
- Various undergrad research opportunities are available to get you started. Feel free to meet with an advisor when ready to discuss grad school options.



Again, welcome to Ole Miss Engineering!



Your next meeting will be with your adviser to create your course schedule. Let us know if you have any questions.

engineer@olemiss.edu