GUIDE TO SUCCESS

LSU College of Engineering
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Welcome to the LSU College of Engineering, Louisiana’s flagship engineering program. As a student in the College of Engineering (CoE), you will encounter challenging academics, become globally aware, gain an entrepreneurial spirit, and develop strong communication skills. Upon successful completion of a degree in one of the engineering disciplines, computer science, or construction management, you will be prepared to address societal problems and improve others’ quality of life.

Engineers research, develop, design, build, operate, and manage the systems and devices that drive our society, working to make them as efficient and effective as possible. Computer scientists address scientific problems through the design of software and hardware, guiding the computational foundation for personal, commercial and governmental use. Construction managers oversee commercial, residential, and public construction projects of varying size and complexity.

What follows in this Guide to Success in the LSU CoE will assist you as you schedule your first courses, plan for future semesters, seek answers to questions about academic policies, find additional LSU resources, and look for extracurricular opportunities for engagement. There are also CoE and LSU contacts you will find helpful. Congratulations on beginning your journey to become an LSU engineer, computer scientist, or construction manager!
## Degree Programs Offered

<table>
<thead>
<tr>
<th>Major</th>
<th>Abbreviation</th>
<th>Department/School</th>
<th>Department Abbreviation</th>
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</thead>
<tbody>
<tr>
<td>Biological Engineering</td>
<td>BE</td>
<td>Biological &amp; Agricultural Engineering</td>
<td>BAE</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>ChE</td>
<td>Cain Department of Chemical Engineering</td>
<td>ChE</td>
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<tr>
<td>Civil Engineering</td>
<td>CE</td>
<td>Civil &amp; Environmental Engineering</td>
<td>CEE</td>
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<tr>
<td>Computer Engineering</td>
<td>EEC</td>
<td>School of Electrical Engineering &amp; Computer Science</td>
<td>EECS</td>
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<tr>
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<td>School of Electrical Engineering &amp; Computer Science</td>
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<tr>
<td>Construction Management</td>
<td>CM</td>
<td>Bert S. Turner Department of Construction Management</td>
<td>CM</td>
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<tr>
<td>Electrical Engineering</td>
<td>EE</td>
<td>School of Electrical Engineering &amp; Computer Science</td>
<td>EECS</td>
</tr>
<tr>
<td>Environmental Engineering</td>
<td>EVEG</td>
<td>Civil &amp; Environmental Engineering</td>
<td>CEE</td>
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<tr>
<td>Industrial Engineering</td>
<td>IE</td>
<td>Mechanical &amp; Industrial Engineering</td>
<td>MIE</td>
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<tr>
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<tr>
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<td>Craft &amp; Hawkins Department of Petroleum Engineering</td>
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## Minors Offered

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<tr>
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<tr>
<td>Digital Media Arts &amp; Engineering-Technology</td>
<td>DMAET</td>
<td>College-wide</td>
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<tr>
<td>Robotics Engineering</td>
<td>ROBOT</td>
<td>College-wide</td>
</tr>
<tr>
<td>Technical Sales</td>
<td>TECHS</td>
<td>College-wide</td>
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<tr>
<td>Biological Engineering</td>
<td>BE</td>
<td>BAE</td>
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<tr>
<td>Sugar Engineering</td>
<td>SGENG</td>
<td>BAE</td>
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<tr>
<td>Environmental Engineering</td>
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<td>Structural Engineering</td>
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<tr>
<td>Surveying</td>
<td>SURV</td>
<td>CEE</td>
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<tr>
<td>Transportation Engineering</td>
<td>TENGR</td>
<td>CEE</td>
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<tr>
<td>Construction Management</td>
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<td>EECS</td>
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<tr>
<td>Aerospace Engineering</td>
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<td>MIE</td>
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<td>E-Commerce</td>
<td>ECOM</td>
<td>MIE</td>
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<tr>
<td>International Automotive Engineering</td>
<td>IAE</td>
<td>MIE with Univ. Torino (Requires Study Abroad)</td>
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<td>Materials Science &amp; Engineering</td>
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<tr>
<td>Mechanical Engineering</td>
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<td>MIE</td>
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<tr>
<td>Nuclear Power Engineering</td>
<td>NCPE</td>
<td>MIE</td>
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COLLEGE OF ENGINEERING CONTACTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Location</th>
<th>Phone #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Judy Wornat</td>
<td>Dean</td>
<td>2214 Patrick Taylor</td>
<td>225-578-4630</td>
</tr>
<tr>
<td>Craig Harvey</td>
<td>Associate Dean</td>
<td>2225 Patrick Taylor</td>
<td>225-578-8761</td>
</tr>
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</table>

ENGINEERING DEPARTMENTS & CHAIRS

<table>
<thead>
<tr>
<th>Department</th>
<th>Location</th>
<th>Dept. Phone#</th>
<th>Chair/Head</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAE</td>
<td>149 E. B. Doran</td>
<td>225-578-3153</td>
<td>Marybeth Lima</td>
</tr>
<tr>
<td>CEE</td>
<td>3255C Patrick Taylor</td>
<td>578-8442</td>
<td>George Voyiadjis</td>
</tr>
<tr>
<td>ChE</td>
<td>3307 Patrick Taylor</td>
<td>578-1426</td>
<td>John Flake</td>
</tr>
<tr>
<td>CM</td>
<td>3319 Patrick Taylor</td>
<td>578-5112</td>
<td>Charles Berryman</td>
</tr>
<tr>
<td>CSC</td>
<td>3325E Patrick Taylor</td>
<td>578-1495</td>
<td>Bijaya Karki</td>
</tr>
<tr>
<td>EE &amp; EEC</td>
<td>3325D Patrick Taylor</td>
<td>578-5241</td>
<td>Jerry Trahan</td>
</tr>
<tr>
<td>MIE</td>
<td>3261E Patrick Taylor</td>
<td>578-5804</td>
<td>Dimitris Nikitopoulos</td>
</tr>
<tr>
<td>PETE</td>
<td>3207C Patrick Taylor</td>
<td>578-5215</td>
<td>Karsten Thompson</td>
</tr>
</tbody>
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UNDERGRADUATE COORDINATORS

<table>
<thead>
<tr>
<th>Curriculum/Advisor</th>
<th>E-mail</th>
<th>Location</th>
<th>Phone #</th>
</tr>
</thead>
<tbody>
<tr>
<td>BE/Nicholas Totaro</td>
<td><a href="mailto:ntotar1@lsu.edu">ntotar1@lsu.edu</a></td>
<td>105 E. B. Doran</td>
<td>225-578-1083</td>
</tr>
<tr>
<td>CE/Suresh Moorthy</td>
<td><a href="mailto:moorthy@lsu.edu">moorthy@lsu.edu</a></td>
<td>3255E Patrick Taylor</td>
<td>578-4846</td>
</tr>
<tr>
<td>ChE/Barry Guillory</td>
<td><a href="mailto:barryguillory@lsu.edu">barryguillory@lsu.edu</a></td>
<td>3308A Patrick Taylor</td>
<td>578-2173</td>
</tr>
<tr>
<td>Adam Melvin</td>
<td><a href="mailto:melvin@lsu.edu">melvin@lsu.edu</a></td>
<td>3314F Patrick Taylor</td>
<td>578-3062</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CM/Stephanie Heumann</td>
<td><a href="mailto:sheumann@lsu.edu">sheumann@lsu.edu</a></td>
<td>3319 Patrick Taylor</td>
<td>578-8856</td>
</tr>
<tr>
<td>CSC/Patti Aymond</td>
<td><a href="mailto:paymond@lsu.edu">paymond@lsu.edu</a></td>
<td>3270A Patrick Taylor</td>
<td>578-4359</td>
</tr>
<tr>
<td>Jian Zhang</td>
<td><a href="mailto:zhang@csc.lsu.edu">zhang@csc.lsu.edu</a></td>
<td>3272K Patrick Taylor</td>
<td>578-8353</td>
</tr>
<tr>
<td>Brandon Trouard</td>
<td><a href="mailto:brandontrouard@csc.lsu.edu">brandontrouard@csc.lsu.edu</a></td>
<td>3325 Patrick Taylor</td>
<td>578-7447</td>
</tr>
<tr>
<td>EE &amp; EEC/Suresh Rai</td>
<td><a href="mailto:srai@lsu.edu">srai@lsu.edu</a></td>
<td>3330A Patrick Taylor</td>
<td>578-4832</td>
</tr>
<tr>
<td>Stacie Oliver</td>
<td><a href="mailto:soliver@lsu.edu">soliver@lsu.edu</a></td>
<td>3325H Patrick Taylor</td>
<td>578-5484</td>
</tr>
<tr>
<td>EVEG/John Pardue</td>
<td><a href="mailto:jpardue@lsu.edu">jpardue@lsu.edu</a></td>
<td>3240T Patrick Taylor</td>
<td>578-8661</td>
</tr>
<tr>
<td>IE/Isabelina Nahmens</td>
<td><a href="mailto:nahmens@lsu.edu">nahmens@lsu.edu</a></td>
<td>3261C Patrick Taylor</td>
<td>578-0943</td>
</tr>
<tr>
<td>ME/Keith Gonthier</td>
<td><a href="mailto:kgonth1@lsu.edu">kgonth1@lsu.edu</a></td>
<td>3261D Patrick Taylor</td>
<td>578-5915</td>
</tr>
<tr>
<td>PETE/Fred Thurber</td>
<td><a href="mailto:fthurbe@lsu.edu">fthurbe@lsu.edu</a></td>
<td>3207D Patrick Taylor</td>
<td>578-6058</td>
</tr>
<tr>
<td>Richard Hughes</td>
<td><a href="mailto:rghughes@lsu.edu">rghughes@lsu.edu</a></td>
<td>3212C Patrick Taylor</td>
<td>578-6038</td>
</tr>
</tbody>
</table>

STUDENT SERVICES & DIVERSITY INITIATIVES

Student Services and Diversity Initiatives in the College of Engineering is a team of professionals who collectively assist students from their initial contact with LSU and the college all the way to their graduation. These units provide students with academic support and educational resources that enhance their experience, as well as
opportunities for engagement through various camps, student organizations, peer mentoring, diversity/engineering ambassadors, and undergraduate research.

ENGINEERING STUDENT SERVICES
2228 Patrick Taylor, William Brookshire Student Services Suite (225-578-5731)

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barbara Reonas</td>
<td>Assistant Dean</td>
<td><a href="mailto:breonas@lsu.edu">breonas@lsu.edu</a></td>
</tr>
<tr>
<td>Alyssa Jones</td>
<td>Counselor</td>
<td><a href="mailto:ajones11@lsu.edu">ajones11@lsu.edu</a></td>
</tr>
<tr>
<td>Arlyn Saucier</td>
<td>ERC Coordinator</td>
<td><a href="mailto:arlyn@lsu.edu">arlyn@lsu.edu</a></td>
</tr>
<tr>
<td>Ashley Gray</td>
<td>Lead Academic Counselor</td>
<td><a href="mailto:ashleygray@lsu.edu">ashleygray@lsu.edu</a></td>
</tr>
<tr>
<td>Casie Nicholson</td>
<td>Counselor</td>
<td><a href="mailto:cnicholson1@lsu.edu">cnicholson1@lsu.edu</a></td>
</tr>
<tr>
<td>Christie Duplechain</td>
<td>Senior Retention Counselor</td>
<td><a href="mailto:cenglade@lsu.edu">cenglade@lsu.edu</a></td>
</tr>
<tr>
<td>Courtney Frost</td>
<td>Career Coach</td>
<td><a href="mailto:cfrost6@lsu.edu">cfrost6@lsu.edu</a></td>
</tr>
<tr>
<td>Delia Madrid-Nothdurft</td>
<td>Retention Counselor</td>
<td><a href="mailto:delia@lsu.edu">delia@lsu.edu</a></td>
</tr>
<tr>
<td>Erin Lavin</td>
<td>Counselor</td>
<td><a href="mailto:erinlavin@lsu.edu">erinlavin@lsu.edu</a></td>
</tr>
<tr>
<td>Kellie Boudreaux</td>
<td>Counselor</td>
<td><a href="mailto:kbound49@lsu.edu">kbound49@lsu.edu</a></td>
</tr>
<tr>
<td>Lisa B. Fontenot</td>
<td>Counselor</td>
<td><a href="mailto:lisafont@lsu.edu">lisafont@lsu.edu</a></td>
</tr>
<tr>
<td>Mary Boudreaux</td>
<td>Counselor</td>
<td><a href="mailto:cboud@lsu.edu">cboud@lsu.edu</a></td>
</tr>
<tr>
<td>Natalie LaRose</td>
<td>Counselor</td>
<td><a href="mailto:natalielarose@lsu.edu">natalielarose@lsu.edu</a></td>
</tr>
<tr>
<td>Vicki Hannan</td>
<td>Office Manager</td>
<td><a href="mailto:coeadv1@lsu.edu">coeadv1@lsu.edu</a></td>
</tr>
</tbody>
</table>

- Serve as a first contact for those needing assistance.
- Provide academic, career, and personal counseling.
- Give general advice on how to solve various student problems.
- Refer students to best source of information (ex: Career Center, computer rooms, etc.).
- Assist students with registration and schedule changes/issues and exam rescheduling.
- Supply students with unofficial transcripts, degree audits, and rank in class.
- Assist student organizations in obtaining conference rooms for meetings.
- Program minors for students wishing to add them.
DIVERSITY INITIATIVES
2228 Patrick F. Taylor Hall

Sarah Jones  Associate Director  sjones@lsu.edu  578-5705
Roberto Champney  Professional in Residence  rchampney1@lsu.edu  578-2815
Jasmin McElwee  Graduate Assistant  jric198@lsu.edu

- Develop a pipeline of diverse talent in engineering, construction management, and computer science.
- Offer student seminars for professional development, career, and academic success.
- Advise student leaders for Diversity Ambassadors, SWE, NSBE, and SHPE.
- Facilitate signature events including WISE, First Impressions, and Engineering Tiger Connections.
- Offer ENGR 1050: Intro to Engineering, a communication-intensive course to explore the CoE disciplines.
CHEVRON CENTER FOR ENGINEERING EDUCATION
1269 Patrick F. Taylor Hall

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Email</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elizabeth Melvin</td>
<td>Director</td>
<td><a href="mailto:lizmelvin@lsu.edu">lizmelvin@lsu.edu</a></td>
<td>225-578-3072</td>
</tr>
<tr>
<td>Adrienne Steele</td>
<td>Assistant Director</td>
<td><a href="mailto:alopez@lsu.edu">alopez@lsu.edu</a></td>
<td>578-5349</td>
</tr>
<tr>
<td>David “Boz” Bowles</td>
<td>Assistant Director</td>
<td><a href="mailto:dbowles@lsu.edu">dbowles@lsu.edu</a></td>
<td>578-9952</td>
</tr>
</tbody>
</table>

- Offer expert advice on communication projects (written, oral, or technological).
- Facilitate access to computer workstations, high-tech A/V applications, 3-D scanners, and printers.
- Direct the Engineering Communication Studio—a place for teamwork.
- Provide opportunities for global engineering education experiences.
- Develop a support system of students, faculty, and staff that increases student confidence, provides mentoring, and develops teamwork and leadership skills.
- Facilitate Encounter Engineering (E²) Camp for first-time freshmen.
- Provide supplemental instruction for several 1st & 2nd year foundational courses.
- Advise the Society of Peer Mentors, and extend assistance to local schools for regional/national robotics competitions.
- Offer Supplemental Instruction (SI), providing peer-facilitated sessions for students enrolled in large, historically difficult, engineering and computer science courses.
<table>
<thead>
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<th><strong>ADDITIONAL CAMPUS SERVICES</strong></th>
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<tr>
<td><strong>ADD &amp; DROP CLASSES/RESIGN</strong></td>
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<td><strong>ADMISSIONS</strong></td>
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<td><strong>CAMPUS/STUDENT JOBS</strong></td>
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<td><strong>CAMPUS TRANSIT</strong></td>
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<td><strong>DISTANCE LEARNING COURSES</strong></td>
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<td><strong>INTERNATIONAL STUDENTS</strong></td>
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<td><strong>MEDICAL/MENTAL HEALTH SERVICES</strong></td>
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<td><strong>MULTICULTURAL AFFAIRS</strong></td>
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<td><strong>PRE-MED INFORMATION</strong></td>
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<td><strong>SCHOLARSHIPS</strong></td>
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<td><strong>TIGER TRAILS</strong></td>
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<td><strong>TRANSCRIPTS (OFFICIAL)</strong></td>
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<td><strong>TRANSFER CREDIT</strong></td>
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<tr>
<td><strong>TUTORING &amp; STUDY SKILLS</strong></td>
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</table>
GETTING STARTED

Admission Requirements for the College of Engineering

LSU freshmen are first admitted into the University Center for Freshmen Year (UCFY). Transfers may be admitted, depending on credit hours and GPA, into either the University Center for Advising and Counseling (UCAC) or directly into the College of Engineering (ENGR). The requirements for CoE admission are as follows:

- 24 hours of college-level coursework
- MATH 1550/1551 (5-hour format) with a “C-” grade or better OR both MATH 1530 and 1540 (6 hours in total) with grades of “C-” or better
- 2.0 cumulative GPA and 2.0 LSU System GPA
- **Petroleum Engineering Majors**—Additional Requirement: 2.8 GPA in all courses applied to degree program
- **Construction Management Majors**—Alternate Math Requirement: MATH 1431, 1550, or 1551 with a “C-” grade or better OR both MATH 1530 and 1540 (6 hours in total) with grades of “C-” or better
- **Transfer Students**—Cumulative GPA Requirement: A 2.5 cumulative GPA is required, along with all other requirements listed above.

Scholarships

As you complete semesters, gain work experience, and update your resume, take the opportunity to revise your myLSU scholarship application online. This will ensure you receive consideration for all scholarships available.

- Look on your myLSU desktop under Financial Services section and select Update Scholarship.
- Be prepared, as you may be notified by email to provide supporting documents (e.g. résumé, personal and/or financial need statements, part-time work verification) for specific scholarship consideration.
- For a list of FAQs on the engineering scholarships, see: https://scholarshipfaq.eng.lsu.edu/
- Contact: Jennifer Lane, CoE Scholarship Manager: coescholarships@lsu.edu

Faculty Advisors

Each department in the College of Engineering has assigned faculty members who provide the following services:

- Assist students in preparing schedules for future semesters.
- Explain course and curricular requirements.
- Discuss course prerequisites and proficiency requirements.
- Ensure that students meet accreditation standards.
- Offer career information about various fields.
- Lift advising flags for all students in the college.
- Refer student to ENGR Student Services for general questions.

**Contact your department to find out the faculty advisor to whom you are assigned.

LSU College of Engineering E-News

This monthly email includes highlights and links to information about events in the College of Engineering. Students are encouraged to submit their events, meetings, and other announcements for inclusion in E-News.

Follow CoE on: Facebook, Instagram, LinkedIn, RSS Feed, Twitter, & YouTube
ALEKS – ALEKS is a learning platform used at LSU to begin instruction in CHEM 1201 (General Chemistry I) and assess readiness for calculus. To enroll in MATH 1530, 1550, 1551 (beginning calculus classes), a passing score on the ALEKS calculus readiness assessment is required. The ALEKS calculus readiness assessment can also serve as a credit exam for MATH 1021 (College Algebra).

CATS – The Comprehensive Academic Tracking System is designed to help students reach academic success at LSU and make sure that they are progressing toward graduation each semester. Each major has a RECOMMENDED PATH that is the optimal path for graduation in four years. CATS checks students’ progress each semester by tracking them on critical major requirements and gives feedback when students are not meeting those requirements. For more information, go to https://www.lsu.edu/registrar/academics/cats.php.

COMPUTER LABS – The Chevron Center (1269 Patrick Taylor Hall) offers computers that students may use Monday through Friday from 9:00 a.m. to 5:00 p.m.

CO-OP – Cooperative Education is a work/school rotation program, allowing students to gain valuable experience in their intended field. Work and school are generally alternated until two or three semesters of work are completed. Register with the LSU Olinde Career Center by attending a career workshop.

CROSS REGISTRATION – Through LSU’s cross-registration programs with Southern University and Baton Rouge Community College, students may be permitted to take courses at those institutions when they are not offered at LSU.

DEAN’S APPROVAL – A students seeking “dean's approval” or “college approval” on a form should begin with their academic unit—the Center for the Freshman Year (UCFY), the Center for Advising and Counseling (UCAC), or Engineering Student Services. In most cases, a counselor, the assistant dean, or the associate dean is authorized to sign for the dean.

DEGREE AUDIT – A degree audit is a document that lists all classes required for your major. It indicates which classes have been completed, as well as those that are still required.

FLOWCHARTS – Flowcharts provide a visual representation of a major and include the sequence of classes recommended to graduate in four years. They can be found by clicking on the following link: https://www.lsu.edu/eng/current/resources/flowcharts.php.

INTERNSHIPS – These are one-semester work programs coordinated by the LSU Olinde Career Center. Register with the Career Center by attending a career workshop as soon as possible. Dates are listed on the Career Center website, www.lsu.edu/career.

myLSU Portal – This online hub provides e-mail service, along with access to print degree audits, request transcripts, declare a graduation date, and view mid-term and final grades. It also shows class availability, enables students to schedule classes, select additional services (e.g., parking passes, meal plans), and more. Instructions for logging on to the portal can be found by clicking on the following link: How to login?

NAVIGATE – Use the “Navigate Student” mobile app to manage your responsibilities and see your timeline for success! The app gives you a customized list of important deadlines and upcoming events, and it puts your next steps in one place. You’ll always know when registration for classes will open, how to get involved in various events, where to find academic resources on campus, and how to schedule an appointment with your academic advisor directly from your phone.
REVEILLE – LSU's student newspaper provides campus and local news, sports, and editorials, as well as listings of campus activities. It is available in the lobby of Patrick F. Taylor Hall and around campus.

TIGERWARE – TigerWare is a software distribution platform that contains free software downloads for LSU students, faculty, and staff. This includes numerous Microsoft products for Windows and Mac computers. TigerWare may be accessed at http://tigerware.lsu.edu/.
While the College of Engineering prescribes your general education math and physical science courses, your major may allow some flexibility when scheduling other general education courses. The list of general education courses is catalog-specific (catalog of record). This means that the catalog year you follow for your curricular requirements is the same one that lists your ARTS/HUMANITIES/SOCIAL SCIENCES/LIFE SCIENCES course options. Be sure to consult your flowchart, catalog, and degree audit to ensure you are taking courses that apply to your degree program.

### ARTS: (3 hours)

**All Majors:** Any one, approved course

### HUMANITIES: (9 hours)

1. **CM & IE Majors:** Communication Studies 1061 or 2060 and two additional humanities courses
2. **CSC Majors:** Communication Studies 1061, 2012, 2040, 2060, or 2063; one English or Honors humanities course; and one additional humanities course
3. **EE & EEC Majors:** PHIL 2020 and two additional humanities courses
4. **ME Majors:** PHIL 2020 or 2050; CMST 1061, 2060, or 2063 or a foreign language humanities course; and one additional humanities course
5. **All Other Majors:** Any three humanities courses

### SOCIAL SCIENCES: (6 hours)

1. **CSC, EE and EEC Majors:** Two social science courses (one course must be at 2000-level or above)
2. **BE Majors:** AGEC 2003 or ECON 2030 and one additional social science course
3. **ME Majors:** ECON 2030 and INTL 2000 or HNRS 2020
4. **CHE, CE, CM, EVEG, IE, and PETE Majors:**
   
   Econ 2030 and one additional course -OR- ECON 2000 and ECON 2010

IE majors must also satisfy a “global knowledge” requirement specific to the IE major. This is done by taking a general education arts, humanities, or social science that is also approved as a global knowledge course.

### LIFE SCIENCES: (3 hours)

1. **BE, CHE, and EVEG Majors:** BIOL 1201
2. **IE Majors:** AGRI 1005, AGRO 1001, BIOL 1001, BIOL 1011, BIOL 1201, ENVS 1126, ENVS 2126, HORT 2050, HORT 2061, OCS 2050, RNR 1001, WGS 1001 (2022 catalog year)
3. **CM Majors:** CM 1070 (or ENVS 1126 for catalog years prior to 2022)
4. **CE, EE, EEC, ME, and PETE Majors:** Choose one life science. These are general education natural sciences denoted with an asterisk (*) in the LSU General Catalog.
5. **CSC Majors:** Take either BIOL1001 or 1201. [Additionally, CSC majors must take a physical science from a restricted list noted in the CSC curriculum in the catalog. Students must also take a life or physical...]

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science that completes a sequence, as well as the corresponding two hours of laboratory class(es). See the CSC section of the catalog for complete details.

REGISTRATION IN MATH 1530/1550/1551

For all College of Engineering degree programs except construction management, MATH1550 (Calculus I) is the first required math course. MATH 1530 (Differential Calculus) and MATH 1540 (Integral Calculus) are both 3-hour courses which, together, cover the content of MATH 1550, a 5-hour course. Students have the option to take both MATH 1530 and MATH 1540 in place of MATH 1550.

It is important to note that success in calculus requires a strong foundation in algebra (MATH 1021) and trigonometry (MATH 1022). Therefore, many students take these courses first so that they are well-prepared for calculus.

The ONLY prerequisite for MATH 1530 and MATH 1550 is a current ALEKS score of 76 percent. A current score of 81 percent is required for MATH 1551 (Honors Calculus I). A “current” or “fresh” ALEKS score is one earned within six months of the first day of the semester you will begin either MATH 1530, 1550, or 1551.

Find everything you need to know about ALEKS here: https://www.math.lsu.edu/ugrad/ALEKS.

REGISTRATION IN PHYSICS

While natural science requirements will vary by major, all but CSC will require some physics. The various physics sequences required for engineering and construction management majors are shown below. (CSC students should refer to CSC curriculum in the LSU General Catalog to view the options for fulfilling the general education natural science requirement for that major.)

**Engineering Physics Sequence**

1st PHYS for ALL ENGR Majors

MATH1550 → PHYS 2110 → PHYS 2112 → PHYS 2113 → MATH 1552

2nd PHYS for CE, EVEG, IE & PETE

PHYS 2112

2nd PHYS for BE, CHE, EE, EEC & ME

PHYS 2113

3rd PHYS for PETE

PHYS 2110

**Construction Management Physics Sequence**

Math 1022 → PHYS 2001 → PHYS 2002
DEPARTMENTAL FLOWCHARTS

- Flowcharts depict all required courses for a degree program, with recommended courses by semester of enrollment.
- Flowcharts illustrate prerequisites and co-requisites, and they are a great tool when planning course schedules for future semesters.
- Flowcharts for each curriculum and catalog year are available in your department, Engineering Student Services, and online at [http://www.lsu.edu/eng/current/resources/flowcharts.php](http://www.lsu.edu/eng/current/resources/flowcharts.php).

**HOW TO READ A FLOWCHART**
Q: **What is a degree audit?**

A: A degree audit is a document that lists the requirements needed to complete a particular degree program. It also matches the courses from your transcript to those requirements and displays completed courses, courses in progress, courses taken but not applied to the degree, and courses needed for degree completion. The degree audit serves as an advising tool, but it also serves as the document used to verify that you have met graduation requirements.

Q: **Where can I get one?**

A: A copy of your degree audit is available through myLSU or Engineering Student Services.

Q: **What is the difference between the degree audit available on myLSU and the one from Engineering Student Services?**

A: The format is different. The one from College of Engineering Student Services will likely be easier to follow.

Q: **How often should I review my degree audit?**

A: You are required to go over a new degree audit with your departmental faculty advisor each semester prior to registration once you have been admitted to the senior college. We advise you to review your degree audit before the start of each semester to check the “Courses Not Applied to Major Degree Program” section of the audit. If you see courses in this section that you were expecting to see applied to your degree, be sure to consult with Engineering Student Services about this while there is still time to make schedule changes.

Q: **How do I read the audit?**

A: The symbols on the degree audit indicate your progress toward the completion of each requirement or sub-requirement, and they are explained as follows:

- **OK** = The requirement has been met.
- **IP** = Coursework within the requirement is in progress.
- **NO** = The requirement has not been met and is not in progress.
- **+** = The sub-requirement within a requirement has been met.
- **#** = The sub-requirement within a requirement is in progress.
- **-** = The sub-requirement within a requirement has not been met and is not in progress.

Q: **What if I find a mistake?**

A: Should you find a problem with your degree audit, see a counselor in ENGR Student Services. Always check the “Courses Not Applied to Major Degree Program” section of your degree audit to verify that all completed and in-progress courses are counting toward your degree. If a substitution is necessary, see your departmental faculty advisor to initiate a petition and bring it to ENGR Student Services.
### How to Read a Degree Audit

- **Date Printed**: Date when the audit was printed.
- **Catalog Year**: Year of the catalog used for the requirements.
- **Overall GPA**: Overall GPA calculated based on all completed courses.
- **Major GPA**: GPA specific to the major.
- **English Requirement**: Requirement met or not met in English.
- **Math Requirement**: Requirement met or not met in Mathematics.
- **IP**: Requirement in progress.
- **OK**: Requirement met.
- **NO**: Requirement not met.
- **#**: Sub-Requirement in progress.
- **+**: Sub-Requirement met.
- **-**: Sub-Requirement not met.

#### Degree Audit Details

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Grade</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 2110</td>
<td>PHYSICS I</td>
<td>A</td>
<td>3.0</td>
</tr>
<tr>
<td>CHEM 1100</td>
<td>CHEMISTRY FOR NON-SCI Majors</td>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 1550</td>
<td>LINEAR ALGEBRA</td>
<td>A</td>
<td>3.0</td>
</tr>
</tbody>
</table>

#### Notes

- All credits attempted may not be indicated on this report.
- Restrictions on transfer credit earned outside LSU should be considered.

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**Page 1 of 1**
GRADE POINT AVERAGE IN MAJOR DEPARTMENT
In order to graduate, each student must have at least a 2.0 GPA in the major department. This includes only courses with the appropriate departmental prefix (i.e., industrial engineering, mechanical engineering, etc.) for which a grade of A through F was earned. It is suggested that you continually monitor your major department GPA, which is found in the second requirement block on the first page of the degree audit.

COLLEGE OF ENGINEERING RESIDENCY REQUIREMENT
To obtain a degree from the College of Engineering, students must successfully complete at least 30 hours of residence in the College of Engineering. These residence hours must include 15 hours of required major courses or approved technical electives at the 3000 level or above, and 9 of the 15 hours must be at the 4000 level in the major department. Courses used to satisfy residency must be approved by the department chair.

COLLEGE PROFICIENCY REQUIREMENTS*
ENGLISH: A grade of “C-” or better must be earned in all required English courses in the student’s curriculum.

MATH: A grade of “C-” or better must be earned in MATH 1550 and 1552 for engineering and computer science majors. Construction Management students must earn a “C-” or better in MATH 1022 and either MATH 1431 or 1550.

PHYSICS: Engineering students must earn a grade of “C-” or better in PHYS 2110. Construction management students must earn a grade of “C-” or better in PHYS 2001 and 2002. See the LSU General Catalog for prerequisites and co-requisites for these courses.

CSC Majors: A grade of “C” or better is required in all CSC prerequisite courses; CSC 3200, CSC 4101, CSC 4103, and CSC 4330; MATH 1550 and MATH 1552; BIOL 1001 or BIOL 1201 and all science prerequisite courses including laboratory courses.

EE/EEC Majors: Students majoring in EE or EEC must earn a grade of “C-” or better in all courses that are considered pre-requisites to other EE courses.

*Note: Individual departments may have additional proficiency requirements. See the catalog for details.

If you do not make at least a C- grade in any of these courses, you MUST repeat the course before moving on to the next one in sequence.

INCOMPLETE GRADES
After the last day to drop classes in a semester, a grade of “I” (incomplete) may be assigned when a student is not able to complete a course on time due to extenuating circumstances beyond the student’s control. The student must request approval for an “I” grade from the Office of the Dean (i.e., ENGR Student Services).

When approved, an “I” grade gives the student additional time to complete the remaining coursework. A regular letter grade (A-F) must be assigned no later than the last day to add classes in the next regular semester in which the student enrolls. If this deadline is not met, the “I” grade will be converted to an “F.”

ADDING OR DROPPING COURSES
During the fall and spring semesters, students may drop courses through the seventh-class day without receiving a grade of “W.” They may add courses through the eighth-class day. A “W” grade will be entered on a student’s record for courses dropped between the eighth-class day and the final date for resigning from the University and/or dropping courses. These deadlines apply to regular semesters. Deadlines for accelerated sessions in fall and spring, the summer term, wintersession, and online modules can be found in the LSU General Catalog.
LSU limits the number of “W” grades a student may accrue in accordance with the schedule below:

<table>
<thead>
<tr>
<th>Tier</th>
<th>SCH Range</th>
<th>Ws Allowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier I</td>
<td>0-59 SCH</td>
<td>3 Ws Allowed</td>
</tr>
<tr>
<td>Tier II</td>
<td>60-119 SCH</td>
<td>3 Ws Allowed</td>
</tr>
<tr>
<td>Tier III</td>
<td>&gt; 119 SCH</td>
<td>1 W Allowed</td>
</tr>
</tbody>
</table>

**Repeated Courses**

There are a number of scenarios in which a student may need or choose to repeat a course:

- Typically, courses may be repeated only when a grade of “D” or “F” was earned. A student may repeat a course in which a grade of “C” or higher was earned only when the course description in the LSU General Catalog allows for this.
- A student who earns an “F” in a course at LSU must repeat the course in the LSU System in order to receive credit and quality points for the class. Students who earn an “F” in the same course twice at LSU are not permitted to retake the course unless granted approval to do so from the dean of their college.
- LSU has a Grade Exclusion policy that enables students to improve their undergraduate GPAs by repeating a maximum of three courses (up to 12 hours) in which grades of “D” or “F” were earned and requesting that the repeated grades be the only ones used in calculation. Not all courses are eligible for grade exclusion, and students must complete a form with the dean of their college by the last day to add courses in the semester or term in which the subsequent attempt is made.

The policy can be read in its entirety at [https://www.lsu.edu/registrar/academics/grade-exclusion.php](https://www.lsu.edu/registrar/academics/grade-exclusion.php).

**Grade Appeal Procedure**

Appeals of final grades must be initiated by the student within 30 days after the first day of classes in the next regular semester. The following list briefly outlines the basic steps. Complete details of the appeal procedure can be found in the LSU General Catalog.

1. The student should first meet with the faculty member concerned.
2. If the matter is not resolved between the student and the faculty member, the student should make a written request to the chair of the department in which the course was taught asking for a meeting with the department chair and the faculty member.
3. If the student is not satisfied with the decision reached at this meeting, an appeal can then be made to the dean of the college that offers the course.

**LSU Online Distance Learning**

Students enrolling in online distance learning (ODL) courses must follow these rules:

1. ODL courses to be used for degree credit must be approved by ENGR Student Services.
2. No more than one-fourth of the number of hours required for the bachelor’s degree may be taken through distance learning.
3. Students who have been dropped from the university may not enroll in ODL courses for degree credit.
4. ENGR Student Services assigns the completion deadline (referred to as a “dean’s deadline”) for all ODL classes.
5. Students may enroll in a maximum of 19 semester hours of combined ODL and campus course work during a regular semester and a maximum of 12 semester hours during the summer.

**Cross-registration at Southern University or Baton Rouge Community College**

Through cross-registration, LSU students may be permitted to cross-enroll at Southern University and Baton Rouge Community College to take courses not offered at LSU. Students must see an ENGR Student Services counselor to check requirements and obtain approval prior to taking the course. Students are not eligible to cross-enroll in BRCC courses being taught at LSU without written approval from the office of the dean.
HANDS-ON EXPERIENCE

The Engineering Global Initiative
All students are encouraged to take advantage of global initiative opportunities such as international internships, LSU Study Abroad programs, CoE’s Global Engineering Education Exchange Consortium (semesters abroad), shorter term immersion programs, E³-Engineering in Europe, the Global Engineering Immersion Program, general education courses with a global engineering emphasis, and global-based design projects.

How Would I Benefit From Work Experience?
Many students are able to finance some of their education through their internship or CO-OP earnings. It provides a chance to evaluate career choices while actually working in a chosen field. Students believe work experience offers them the opportunity for on-the-job training, practical experience, and the chance to apply what they learned in class. Work experience prior to graduation typically provides students with the opportunity to be stronger, more competitive job candidates with higher starting salaries.

Relevant Work Experience
An internship provides students with practical work experience in their chosen field. An internship’s duration may be one semester, a summer, or an agreed upon length of time between the student, employer, and school. In some cases, students can receive class credit, depending on their curricula and approval from their departments. Internships are available to students in all disciplines and may be located locally, nationally, or abroad.

A CO-OP position gives students an opportunity to gain valuable work experience and to learn first-hand about the work environment they will encounter upon graduation. A CO-OP is a full-time, in-depth, paid work experience directly related to a student’s major and completed during two or more semesters that alternate with academic semesters. Students with scholarships and loans can normally CO-OP without jeopardizing their financial aid; however, individual situations should be evaluated prior to the beginning of the CO-OP program.

How Do I Apply?
To apply, you must meet the following requirements:

1. Complete the freshman year curriculum and have a declared a major.
2. Be in good standing with LSU (minimum 2.00 cumulative GPA and 2.00 LSU System GPA).
3. Meet potential employer’s hiring criteria.
4. Register with Handshake.

Interested students should contact the LSU Olinde Career Center:
158 LSU Student Union ● (225) 578-2162 ● career@lsu.edu
https://www.lsu.edu/careercenter/
HELPFUL TIPS

- **Get to know your professors.** Although interaction with faculty can be intimidating, meeting and getting to know your professors is extremely important. Only through interacting with you can professors assess your comprehension and help you gain a deeper understanding of course material. Also, knowing your professor ensures that you are getting the attention you are paying for through your tuition dollars.

- **Be involved.** A great way to make the transition from high school to college as smooth as possible is to be involved. Active involvement in classes, residence halls, student organizations and religious groups are among the best ways to make new friends and have a good time.

- **Talk to classmates about classes, specifically upperclassmen.** Classmates offer some of the best advice on what classes to take, when to take them, and from whom to take a class. They can also provide you with valuable hints and help on class material. Peer mentors are also available through the Chevron Center.

- **Keep up with class work.** Be sure to check your myLSU email daily, if not multiple times a day, and stay on top of the syllabi you are provided through your Moodle account.

- **Check the LSU College of Engineering E-News for important college information.**

- **Helpful web pages:**

  http://www.lsu.edu/eng – College of Engineering homepage containing departmental, student, and technology information.

  http://www.lsu.edu – LSU homepage containing an electronic version of the catalog and schedule booklet along with access to myLSU.
HONOR SOCIETIES OF LSU

COLLEGE WIDE ORGANIZATIONS

Engineering Council
Engineers Without Borders (EWB)
LSU Engineering Diversity Ambassadors
International Society for Pharmaceutical Engineering (ISPE)
National Society of Black Engineers (NSBE)
Society of Hispanic Professional Engineers

Society of Asian Scientists and Engineers
Society of Women Engineers (SWE)
Society of Hispanic Professional Engineers (SHPE)
Big Sibling Mentoring Program
Society of Peer Mentors
Tau Beta Pi

DEPARTMENTAL ORGANIZATIONS

Biological Engineering:
Biological Engineering Student Organization (BESO)

Chemical Engineering:
The American Institute of Chemical Engineers (AIChE).
Omega Chi Epsilon

Civil & Environmental Engineering:
American Society of Civil Engineers (ASCE)
Louisiana Water Environment Association (LWEA)
Chi Epsilon

Computer Science:
Association for Computing Machinery (ACM @LSU)
Women in Computer Science (WICS)

Construction Management:
Construction Student Association (CSA)
Sigma Lambda Chi

Electrical & Computer Engineering:

Institute of Electrical & Electronic Engineers (IEEE)
Eta Kappa Nu

Industrial Engineering:
Institute of Industrial Engineers (IIE)
Alpha Pi Mu

Mechanical Engineering:
American Society of Mechanical Engineers (ASME)
American Institute of Aeronautics & Astronautics (AIAA)
Society of Automotive Engineers (SAE)
Pi Tau Sigma

Petroleum Engineering:
Society of Petroleum Engineers (SPE)
American Association of Drilling Engineers (AADE)
Pi Epsilon Tau
AFTER ORIENTATION

- Complete scheduling with departmental faculty advisor and ENGR Student Services staff.

- Use myLSU to select “Registration Services” to add “Additional Services” such as a parking permit, a meal plan, etc.

- Use myLSU to select “Fee Bill” to pay fees by the semester deadline to complete registration. (For the deadline, see the appropriate semester’s Registration Calendar in the Schedule Booklet section of the Registrar’s web site.)

- Contact a counselor in UCFY (225-578-6822) or the CoE (225-578-5731) if you later earn AP/IB/CLEP or high school dual enrollment credits and need your schedule modified.

- Contact a counselor if you earn summer credits elsewhere and need to have your fall schedule modified.

- Submit a qualifying ALEKS score before the purge deadline (which can be found on the ALEKS section of the Department of Mathematics’ web site) if you intend TO REMAIN REGISTERED in MATH 1530/1550/1551, or contact a counselor to modify your math placement if you do not earn a passing score.

**How to sign up for ALEKS:** Use your “myLSU” ID to log onto the “myLSU” page. Then navigate to the “Student Services” tab where you will find the "ALEKS Calculus Placement Test" link. Once logged in and redirected to the ALEKS Corporation, you will be required to submit a $25 payment via credit card. This fee gives you access to the initial assessment as well as the learning modules for a six-week period. For more information, visit [https://www.math.lsu.edu/ugrad/ALEKS](https://www.math.lsu.edu/ugrad/ALEKS).
THE LSU ENGINEER
TODAY AND TOMORROW

A critical and holistic thinker and a life-long learner with an entrepreneurial spirit.

Skilled communicator, adept at teamwork and able to rally teams around him/her.

Great awareness of the national and global implications of issues such as the environment and sustainability --- always remaining engaged with the community and society.

Hands-on problem solver, possessing a strong work ethic and leadership qualities.

Well-grounded with sound technical knowledge and understanding.