

LOVE PURPLE

LIVE GOLD **LSU**

COLLEGE OF ENGINEERING

**SURVIVAL  
HANDBOOK**

Information contributed and compiled by  
The Engineering Council of LSU and  
College of Engineering Dean's Office

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**LSU**

**College of Engineering**

## ***A LETTER FROM YOUR COLLEGE***

Dear Students,

Welcome to the College of Engineering! You are joining a proud tradition of students who have pursued engineering or construction management academic studies at LSU. Our faculty and staff are here to help you succeed. We have created this handbook to provide you with the basic information needed as you progress toward degree completion. While the LSU General Catalog is the official source, consider this handbook as a “Quick Start” guide to the college.

It is critical that you take time to fully understand all requirements and regulations for degree completion. On occasion you may have situations that are not covered in this handbook. Should such a question arise, the college has an outstanding group of professional counselors on staff that can help you with academic, personal and career counseling. Also, your faculty advisor serves as a resource as well. We wish you the best as you pursue your studies in the College of Engineering.



A handwritten signature in black ink, appearing to read 'Richard Koubek', written over a thin horizontal line.

Richard Koubek  
Dean

### **Degree Programs Offered**

Biological Engineering  
Chemical Engineering  
Civil Engineering  
Computer Engineering  
Construction Management

Electrical Engineering  
Environmental Engineering  
Industrial Engineering  
Mechanical Engineering  
Petroleum Engineering

# COLLEGE OF ENGINEERING CONTACTS

## DEAN'S OFFICE STAFF, 3304 Patrick F. Taylor Hall

Richard Koubek	Dean	578-5701
Warren N. Waggenspack, Jr.	Associate Dean	578-5701
Kelly Rusch	Associate Dean	578-5701
Lisa Launey	Assistant Dean, Student Services	578-5731
Jada Lewis	Assistant Dean, Diversity	578-2815
Claudia Hawkins	Coordinator	578-5701
Mary Boudreaux	Counselor	578-6031
Lisa B. Fontenot	Counselor	578-5731
Ramon Lopez	Counselor	578-9163
Barbara Reonas	Counselor	578-5731
Vicki Hannan	Office Manager	578-5704
Sarah Jones	Diversity College Program (3203 PFT)	578-5705

## ENGINEERING DEPARTMENTS & CHAIRMEN

<u>Department</u>	<u>Location</u>	<u>Phone #</u>	<u>Chairman/Head</u>
Biological and Agricultural Engineering	149 E.B. Doran	578-3153	Dr. Allen Rutherford
Gordon A. and Mary Cain Chemical Engineering	110 CHE Bldg	578-1426	Dr. Judy Wornat
Civil and Environmental Engineering	3418 P. F. Taylor	578-8442	Dr. George Voyiadjis
Electrical and Computer Engineering	102 EE Bldg	578-5241	Dr. Pratul Ajmera Interim Chair
Construction Management and Industrial Engineering	3128 P. F. Taylor	578-5112	Dr. Craig Harvey Interim Chair
Mechanical Engineering	2508 P. F. Taylor	578-5792	Dr. Dimitris Nikitopoulos
Craft and Hawkins Petroleum Engineering	3523 P. F. Taylor	578-3069	Dr. Karsten Thompson

## UNDERGRADUATE FACULTY COORDINATORS

<u>Department/Advisor</u>	<u>Location</u>	<u>Phone #</u>
Biological Engineering Dr. Richard Bengtson	177 E. B. Doran	578-1056
Chemical Engineering Dr. David Wetzal	110 ChE Bldg.	578-3071
Civil Engineering Dr. Sherif Ishak	3418 PFT	578-4846
Environmental Engineering Dr. John Pardue	3221H PFT	578-8661
Electrical and Computer Engineering Mr. John Scalzo	345 ERAD	578-5481
Industrial Engineering Dr. Gerald Knapp	3135B PFT	578-5374
Mechanical Engineering Dr. Jack Helms	2210 PFT	578-6299
Petroleum Engineering Dr. Fred Thurber	3527 PFT	578-6058
Construction Management Dr. L. Leslie Rosso	2517B PFT	578-8760

## COUNSELOR INFORMATION



Lisa K. Launey, LPC,  
NCC  
*Asst. Dean*



Lisa Fontenot, LPC, NCC  
*Counselor*



Ramon Lopez, LPC, NCC  
*Counselor*



Barbara Reonas, LPC, NCC  
*Counselor*



Mary Boudreaux, Ph.D., LPC, NCC  
*Counselor*

### Sample Counseling Issues:

#### *Personal Counseling*

- Adjustment to college life and demands
- Accommodations for learning and physical disabilities
- Stress and time management
- Interpersonal conflicts, etc.

#### *Career Counseling*

- Strategies for making a career decision
- Appropriate testing referrals
- Assistance with cover letters, resumes & preparation for interviews, etc.

#### *Academic Advising*

- Admission to the College of Engineering
- General education requirements
- Proficiency requirements
- Transfer of courses from other universities
- Degree audit interpretation
- Academic status in university and in major department
- Resignations
- Graduation check out (semester prior to graduating semester)
- Illnesses or emergencies during semester or during exam time
- Declaring and changing majors and minors
- Approval of incomplete grades
- Grade Appeals
- Authorization for cross-registration and independent study
- F-Grade and Withdrawal Policy

## OFFICE OF DIVERSITY

The Office of Diversity Programs within the College of Engineering is designed to meet the needs of underrepresented students majoring in Engineering. The Office of Diversity Programs offers resources, scholarships, academic and professional development programs, corporate and industrial interactions, and one-on-one advising for the diverse student population through its College Program. This office also provides service opportunities for college students through the Pre-College Program and includes academic and summer programs geared towards 6-12th grade students. This Office is heavily engaged with the National Society of Black Engineers (NSBE), Society of Women Engineers (SWE), and the Society of Hispanic Professional Engineers (SHPE) and helps support the efforts of these student societies through advising, planning, and mentoring.

## STUDENT SUPPORT SERVICES STAFF



Vicki Hannan  
*Office Manager*



Claudia Hawkins  
*Coordinator*

Provide initial contact for students who need the assistance of the Dean's Office  
 Give general advice on various student problems  
 Refer students to best source of information (ex: Career Services, Computer Rooms, etc.)  
 Assist students with registration and schedule changes  
 Supply students with unofficial transcripts, degree audits, and rank in class  
 Change directory information, phone numbers, and local mailing address, etc.  
 Assist student organizations in obtaining conference rooms for meetings

## ADDITIONAL UNIVERSITY STUDENT SERVICES

<b>ADDING/DROPPING COURSES</b>	Academic Counselor	Senior college/Center for Freshman Year	
<b>ADMISSIONS</b>	Office of Admissions	1146 Pleasant Hall	578-1175
<b>CAMPUS JOB/STUDENT JOB</b>	Career Services	1502 P. F. Taylor	578-2162
<b>CAMPUS TRANSIT</b>	Office of Transportation	131 Public Safety Building	578-5555
<b>CAREER PLANNING</b>	Career Services	B1 Coates/	578-2162
<b>PLACEMENT</b>		1502 P. F. Taylor	
<b>CORRESPONDENCE COURSES</b>	Independent Study Office	E106 Pleasant Hall	578-3171
<b>DISABILITIES</b>	Disability Services	112 Johnston Hall	578-5919
<b>FEES</b>	Office of the University Registrar	112 Thomas Boyd Hall	578-1686
<b>FINANCIAL AID</b>	Office of Student Aid/Scholarships	1146 Pleasant Hall	578-3103
<b>HONORS</b>	Honors College	French House	578-8831
<b>INTERNATIONAL STUDENTS</b>	International Services Office	101 Hatcher Hall	578-3191
<b>MEDICAL &amp; MENTAL</b>	Student Health Center	Corner of Infirmary Rd	578-6271
<b>HEALTH SERVICES</b>		& West Chimes St	
<b>MULTICULTURAL AFFAIRS</b>	Office of Multicultural Affairs	326A LSU Union	578-5160
<b>PRE-MED INFORMATION</b>	Dr. Richard Bengtson	149 E.B. Doran	578-3153
<b>RESIGNATIONS</b>	Academic Counselor	3304 P. F. Taylor	578-5731
<b>SCHOLARSHIPS</b>	Office of Student Aid/Scholarships	1146 Pleasant Hall	578-3103
	Engineering Dean's Office	3304 P. F. Taylor	578-5731
<b>TRANSCRIPT (OFFICIAL)</b>	Office of the University Registrar	112 Thomas Boyd Hall	578-1686
<b>TRANSFER CREDIT</b>	Office of Admissions	1146 Pleasant Hall	578-1175
	Dean's Office – Counselor	3304 P. F. Taylor	578-5731
<b>TUTORING &amp; STUDY SKILLS</b>	Center for Academic Success	B31 Coates Hall	578-2872
	BP Academic Enrichment Center	3219 P. F. Taylor	(See Dean's Office)

# GETTING STARTED

## **Admission Requirements**

Students are eligible for acceptance into the College of Engineering from other colleges on campus upon satisfaction of the following criteria: A 2.0 minimum Grade Point Average on all LSU work and all overall work (LSU + transfer credit); 24 earned credit hours; and completion of calculus with a grade of C or better (MATH 1550). Petroleum Engineering majors seeking acceptance after January 1<sup>st</sup> 2013 must have a minimum 2.8 GPA in all courses that apply to the degree. Students transferring from UCFY and UCAC will be automatically admitted if they meet the above criteria. All other students seeking admission must see a counselor in the Dean's Office, 3304 P. F. Taylor Hall. Transfer students from other universities must also at least a 2.5 GPA.

## **Scholarships**

Students with at least a 3.0 are eligible for Dean's Office scholarships once they have completed at least one semester in the College of Engineering. Applications are available in the Dean's Office (3304 P. F. Taylor) from January 15<sup>th</sup>-February 15<sup>th</sup>, and August 15<sup>th</sup>-September 15<sup>th</sup>. Students in the College should also check with their major department for information on the availability of departmental scholarships.

## **Engineering Career Discussion**

Now that you have chosen engineering as your major, there are a few basic things that you need to know. As with many professions, engineering is a very broad field that can open many doors for you in your professional career. After graduation, there are three distinct levels of engineering: engineer, engineer in training (EIT), and professional engineer (P.E.). Upon earning a BS in engineering, graduates who have passed the Fundamentals of Engineering (FE) exam are then titled EIT, and continue for an approximate four year period under the direct supervision of a professional engineer. At the end of this period, an EIT is eligible to take the Principles and Practice of Engineering (P&PE) exam which, upon successful completion, denotes the recipient as a professional engineer (P.E.).

While not all engineers find licensure mandatory for their chosen career paths, the P.E. initials after their names can provide many advantages such as improved career options, respect that comes from the recognized dedication to the engineering discipline, and the ability to participate in professional societies/activities.

## **Construction Management Career Discussion**

Graduates from the Department of Construction Management typically begin their careers working for constructors. However, opportunities abound in government, engineering, architecture, and development. There are over 800,000 business firms in the United States that classify themselves as construction contractors. These firms range in size from the very small to the very large. Graduates from the Department of Construction Management are prepared to work in any size firm. Likewise, the opportunity for a graduate to one day own his or her own business is always an option. For more information, visit the Construction Management Internet site at <http://www.cm.lsu.edu>.

## **Students with Disabilities**

To receive academic accommodations for any disability, students MUST register with the Office of Disability Services, 112 Johnston Hall.

## **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
- Approve course substitutions
- Lift registration flags for all students in the College

Contact your department to find out to which faculty advisor you are assigned.

# CAMPUS LINGO

**PAWS** – (Personal Access Web Service)- PAWS provides e-mail service, access to degree audits, request transcripts, declare a graduation date, mid-term grades, and final grades. It also offers on-line class availability and registration, and access to departmental information, such as class notes and past tests.

**CATS** - The Comprehensive Academic Tracking System 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. CATS checks students' progress each semester by tracking them on the CRITICAL REQUIREMENTS needed and gives feedback when students are not meeting those requirements.

**REVEILLE** – LSU's student newspaper. Lists campus activities, sports, & editorials. Available in the lobby of P. F. Taylor Hall.

**CROSS REGISTRATION** – Southern University and Baton Rouge Community College offer a list of classes available for easy credit transfer to LSU.

**COMPUTER LABS** – P. F. Taylor contains three general-access computer labs, providing Internet services and word-processing software. A large computer center is located on the main floor of P. F. Taylor, and two smaller labs are located in rooms 2227 and 3213. Individual engineering departments have additional labs available. See your department office for more information.

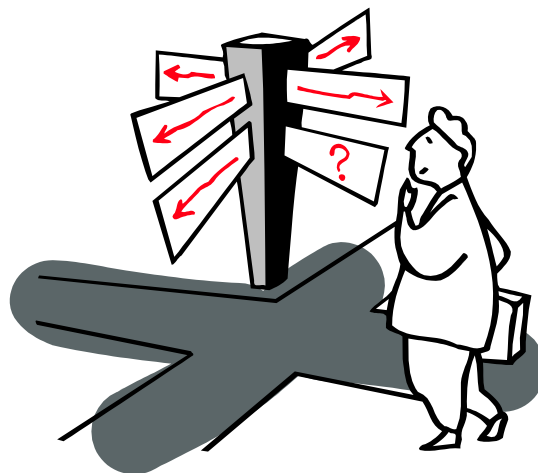
**FLOWCHARTS** – A complete list of class requirements, by major, detailing the recommended sequence of class scheduling in order to graduate on time.

**CLASS SEQUENCE** – Class requirements listed on the flow chart are linked sequentially by prerequisites required for registration.

**DEGREE AUDIT** – A degree audit lists all classes required in your major. It indicates which classes have been completed and which classes are still required. Print a copy from your PAWS account and take it with you whenever you go to see an advisor or counselor.

**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 Career Services by attending a Career Workshop.

**INTERNSHIPS** – A one-semester work program coordinated by Career Services. Register with Career Services by attending a Career Workshop as soon as possible. Dates are listed on the Career Services website, [www.lsu.edu/career](http://www.lsu.edu/career).



# MANAGING DEGREE REQUIREMENTS

## Arts/Humanities/Social Sciences/Life Sciences General Education Requirements

The General Education list is **catalog specific (catalog of record)**. This means that the catalog you choose for your curriculum requirements is also the one (and only one) that you choose for your ARTS/HUMANITIES/SOCIAL SCIENCES/LIFE SCIENCES selection.

### CONSTRUCTION MANAGEMENT STUDENTS

**ART** - 1 course

*choose from gen ed list in your catalog of record*

**HUMANITIES** - 3 courses

*one course must be a communication studies course from gen ed list in your catalog of record  
two additional courses from gen ed list in your catalog of record*

**SOCIAL SCIENCES** - 2 courses

*Econ 2030 and one additional course from gen ed list in your catalog of record*

*-OR-*

*Econ 2000 and Econ 2010*

**LIFE SCIENCE** - 1 course

*choose from gen ed list in your catalog of record (courses listed under natural science with an \*)*

### ENGINEERING STUDENTS

**ART** - 1 course

*choose from gen ed list in your catalog of record*

**HUMANITIES** - 3 courses

*choose from gen ed list in your catalog of record*

**SOCIAL SCIENCES** - 2 courses

1. **EE and EEC Students:**

*Two courses from the gen ed list in your catalog of record (one course must be at 2000 level or above)*

2. **BE Students:** AGEC 2003 or ECON 2030 and one additional social science

3. **CHE, CE, EVEG, IE, ME, and PETE Students:**

*Econ 2030 and one additional course from gen ed list in your catalog of record*

*-OR-*

*Econ 2000 and Econ 2010*

**LIFE SCIENCE** - 1 course

1. **BE, CHE, and EVEG Students:**

*Biol 1201*

2. **IE Students:**

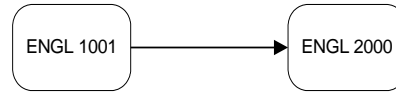
*Biol 1001 or 1201*

3. **CE, EE, EEC, ME, and PETE Students:**

*choose from gen ed list in your catalog of record (courses listed under natural science with an \*)*

***IE students must also meet the Global Knowledge Requirement through the Arts, Humanities, or Social Sciences***

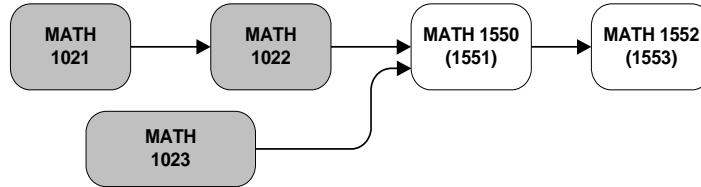
## Engineering & Construction Management English Sequence



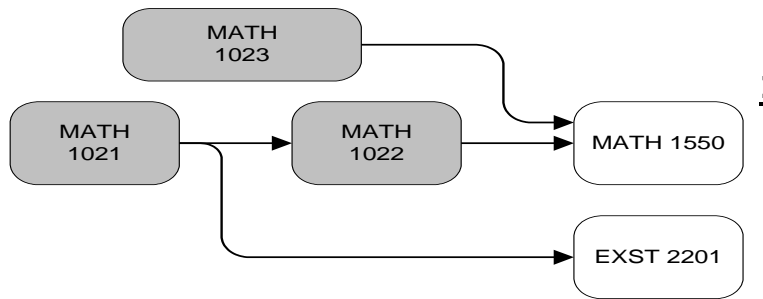
### International Students:



## Engineering Math Sequence



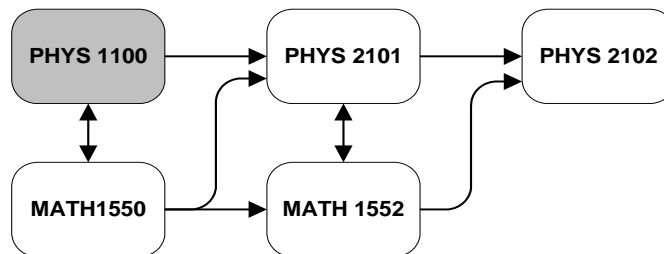
## Construction Management Math & Statistics Sequence



NOTES: Math 1023 (5

hrs.) may be substituted for Math 1021 & 1022

## Engineering Physics Sequence



PHYS 1100 is non-credit for engineering and must be met by placement testing or taking the course. Contact Measurement & Evaluation (51 Himes) for information.

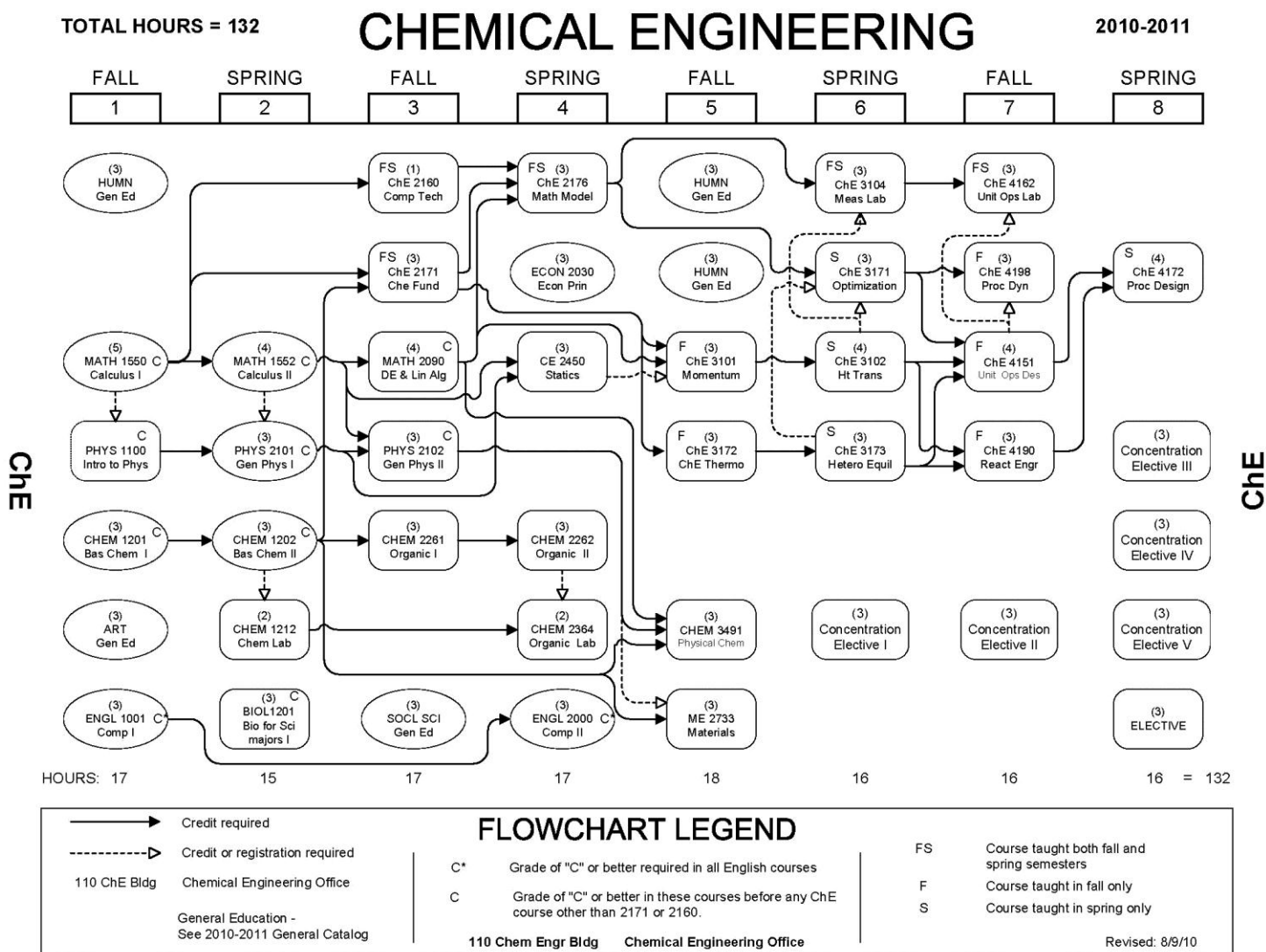
## Construction Management Sequence



## Departmental Flowcharts

- Flowcharts list all required courses for a degree program by recommended semester of enrollment
- Flowcharts also indicate prerequisites and co-requisites, and are a great tool when scheduling courses
- Flowcharts are available for each curriculum by catalog year
- A copy of your flowchart is available in your department, in the Dean's Office (3304 P. F. Taylor), or online at [www.eng.lsu.edu](http://www.eng.lsu.edu) (See Current Students)

### Flowchart Example, Chemical Engineering



## The Degree Audit

Q: What Is It?

A: The degree audit is a document that lists individual requirements needed to complete a particular degree program. In addition, this document matches the courses from your transcript to those required and displays completed courses, courses in progress, and courses to be taken for completion of degree. The degree audit serves as an advising tool, but it also serves as the document to verify that you have met your graduation requirements (graduation checkout document).

Q: Where Can I Get One?

A: A copy of your degree audit is available through PAWS (pg. 16, Technology), your department, or in the Dean's Office.

Q: What If I Find A Mistake or Problem?

A: Should you find a problem with your degree audit, see a counselor in the Dean's office. Always check the Courses Not Applied to Major Degree Program section of your degree audit to insure that all completed and currently enrolled courses are counting toward your degree. If a substitution is necessary, see your advisor and they will initiate a petition and send it to the Dean's office.

Q: How Often Should I Review My Degree Audit?

A: You are encouraged to go over a new degree audit with your faculty advisor each semester prior to registration (pg. 6, Advising Policy).

Q: How Do I Read It?

A: The symbols on the degree audit indicate your status in regard to completing a particular requirement. The symbols are explained as follows:

- OK = a requirement has been met
- IP = course work within a requirement is in progress
- NO = a requirement has not been met and is not in progress
- + = a subrequirement within a requirement has been met
- # = a subrequirement within a requirement is in progress
- = a subrequirement within a requirement has not been met

LOUISIANA STATE UNIVERSITY  
DEGREE AUDIT REPORT

Program SRR6041  
Date 04/09/2010 Time 09:59

LSUID  
Name  
Classification ENGR 3 IE  
Anticipated Graduation Date 05/2011

Major Industrial Engineering College ENGR  
Concen Degree BSIE  
Minors BADM TECHS Catalog 2008-2009

Total Degree Hours  
Required : 125.00 Cum Hrs

IP UNIVERSITY GPA REQUIREMENT

Required :  
Completed:

2.00 Cum GPA  
2.00 LSU GPA  
2.83 + 64 QP  
2.77 + 55 QP

**Overall GPA**

IP MAJOR FIELD GPA REQUIREMENT-INDUSTRIAL ENGINEERING

Required :  
Completed:

01 Subreq 2.00 Cum GPA  
00 Subreq 2.00 LSU GPA  
0.00 Cum GPA  
0.00 LSU GPA

**Major GPA**

# 01 AVG GPA ON ALL IE COURSES & CM 2141 -MINIMUM 2.0  
Not From: IE 3710.  
Accept : IE \*\*\* , CM 2141 , CM 3002.  
Completed: 0.00 Cum Hrs 00 Course  
Enrolled : 9.00 Cum Hrs

Needed : 1.00 Cum Hrs

IP A/H/SS GENERAL EDUCATION ELECTIVES - 6 COURSES

OK RESTRICTION ON TRANSFER CREDIT EARNED OUTSIDE LSU SYS

- 01 ARTS ELECTIVE - 1 COURSE  
Needed : 3.00 Cum Hrs 01 Course

+ 01 REJECT NON-LSU SYSTEM CREDIT EARNED WITH GRADE OF D

+ 02 HUMANITIES ELECTIVES -3 COURSES  
HIST1001 2S09 C 3.0  
HIST2061 1S09 C 3.0  
MC 2000 2S08 B 3.0  
# 03 SOCL SCI ELECTIVE + ECON 2030 (OR ECON 2000 & 2010)  
TRAN A 3.0  
2S10 IP 3.0

**English Requirement**

**English Requirement**

Enrolled : 3.00 Cum Hrs 01 Course  
Enrolled : 3.00 Cum Hrs 01 Course

OK OTHER COURSE - 3 HRS

NO REQUIRED ENGR COURSES OUTSIDE MAJOR - 17 HRS

+ 01 CMST 1061 OR ROTC  
CMST1061 1S10 B 3.0

- 01 CE 2450 WITH C GRADE OR ABOVE  
Needed : 3.00 Cum Hrs

NO MATHEMATICS REQUIREMENT-TOTAL 13 HOURS

Needed : 3.00 Cum Hrs

IP BASIC SCIENCE REQUIREMENT-TOTAL 17 HOURS

+ 01 MATH 1550 WITH GRADE OF C OR ABOVE  
MATH1550 1S08 B 5.0 (5.0,0.0,0.0)  
+ 02 MATH 1552 WITH GRADE OF C OR ABOVE  
MATH1552 2S08 C 4.0 (4.0,0.0,0.0)  
- 03 MATH 2090  
Needed : 4.00 Cum Hrs

**Math Requirements**

Needed : 3.00 Cum Hrs  
Needed : 3.00 Cum Hrs  
Needed : 3.00 Cum Hrs  
CM 1030 3S09 B 2.0

IP BASIC SCIENCE REQUIREMENT-TOTAL 17 HOURS

# ACADEMIC INFORMATION AND REQUIREMENTS

## **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, A-F, was earned. It is suggested that you continually monitor your major department GPA that is found in the second requirement on page one of the degree audit.

**Note:** Only courses in which a grade of “D” or “F” was earned may be repeated. In addition, students within 24 hours of graduation cannot duplicate sophomore level courses in the major field. (See pg. 15)

**ChE students:** If your major gpa falls below a 2.0, you will be placed on academic warning or probation. Please consult your General Catalog.

## **College of Engineering Residence Requirement**

In order to obtain a degree from the College of Engineering, each student must meet the following minimum residence requirement:

- 1) Complete at least 30 hours of course work while enrolled in the engineering department in which the degree is to be received.
- 2) Within this 30 hours of course work, the following conditions must be met:
  - A. 15 hours of required engineering or CM courses or approved technical electives at the 3000 level or above.
  - B. 9 hours of these 15 hours must be at the 4000 level in the major department
  - C. All courses in residence must be approved by the department chairman.

## **Declaring a Minor**

Students who wish to declare any officially recognized minor must contact the Dean’s Office, 3304 P. F. Taylor.

The College of Engineering offers minors in:

Aerospace Engineering	Environmental Engineering	Structural Engineering
AVATAR Digital Media-TECH	Materials Science Engineering	Sugar Engineering
Biological Engineering	Mechanical Engineering	Technical Sales
Construction Management	Nuclear Power Engineering	Transportation Engineering
Electrical and Computer Engineering		

## **Incomplete Grades**

After the last day to drop a course, if a student is not able to complete a course due to extenuating circumstances beyond his/her control, a grade of “I” (incomplete) may be assigned. *The student must request approval of the “I” grade from the Office of the Dean, at which time the student must have a passing grade in the course.*

If authorization from the Dean’s Office is not received, the instructor is to consider the delinquent work to be of failing quality, and an “I” grade may not be assigned.

The final date to remove an “I” grade is the last date to add classes in the next regular semester in which the student enrolls. Failure to meet this deadline will result in the “I” grade being converted to an “F”.

## **Adding or Dropping Courses**

Students may drop courses through the sixth class day without receiving a grade of “W.” Students may add courses through the eighth class day. A “W” grade will be entered on a student’s record for any courses dropped between the sixth class day and the final date for resigning from the University and /or dropping courses.

**\*\*\*STUDENTS WHO HAVE EARNED FEWER THAN 59 HOURS ARE ALLOWED 3 “W” GRADES. STUDENTS WHO HAVE COMPLETED 60-119 HOURS ARE ALLOWED 3 “W” GRADES. STUDENTS WHO HAVE COMPLETED 120+ HOURS ARE ONLY ALLOWED 1 “W” GRADE. HOURS EARNED TOTALS DO NOT INCLUDE ADVANCE STANDING CREDITS.\*\*\***

### **Credit for Repeated Courses**

A student may not repeat a course in which a grade of “C” or better has been earned unless the catalog description indicates that the course may be repeated for credit or the student’s dean approves the repetition for some special reason.

Students who receive an “F” in a course must repeat the course *in the LSU System* in order to receive credit and quality points for it.

***Students who fail a course twice at LSU are not permitted to retake the course without approval from the Dean of the student’s major college.***

### **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. Complete details of the appeal procedure can be found in the [LSU General Catalog](#).

The following is a brief outline of some of the basic steps. (Detailed instructions are listed in the 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 chairperson of the department in which the course was taught asking for a meeting with the department chairperson 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.

### **Independent & Distance Learning**

Students enrolling in Correspondence/Independent Study must follow these rules:

- 1) Correspondence courses to be used for degree credit must be approved by the Office of the Dean.
- 2) No more than 6 hours of correspondence study may be applied to the general education requirement.
- 3) No more than one-fourth of the number of hours required for the bachelor’s degree may be taken through correspondence study.
- 4) Students who have been dropped from the university may not enroll in correspondence courses for degree credit.
- 5) The Dean’s Office assigns the deadline for completion of all correspondence course work.
- 6) Students may enroll in a maximum of 19 semester hours of combined correspondence and campus course work during a regular semester, a maximum of 10 semester hours during the summer A session, and 12 hours if enrolled in both summer A and B session courses.

### **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 majors.  
Construction Management students must earn a “C” or better in MATH 1550.  
PHYSICS: Engineering students must earn a grade of “C” or better in PHYS 2101. 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.

**If you do not make at least a C grade in any of these courses, you MUST repeat the course the next semester. Do not go on to the next course.**

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

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

Under certain conditions a student may participate in any cross-registration program. See a counselor in the Dean’s Office, 3304 P. F. Taylor, to check requirements and to obtain official approval.

NOTE: *You cannot cross register to take a course at Baton Rouge Community College if the course is being taught at LSU.*

# Technology

## My LSU/PAWS

PAWS is LSU's Personal Access Web Service. **With PAWS, you can get e-mail, have a personal home page, view your class schedule and final grades, drop and add classes, print degree audits, register and pay fees, request transcripts, enrollment confirmation letters and more!** PAWS may be accessed at [www.lsu.edu](http://www.lsu.edu) (Student/PAWS). It is your responsibility to check your e-mail on a regular basis. The College of Engineering will send e-mails regarding important dates, scholarship opportunities, etc.

## Tigerware

A website that contains free software downloads for LSU Students, Faculty, and Staff. The software distribution service, called TigerWare, provides numerous Microsoft products available to download to Windows and Macintosh computers. Users can download popular programs such as Microsoft Office, Symantec Anti-Virus, and AutoCAD. TigerWare may be accessed at [tigerware.lsu.edu](http://tigerware.lsu.edu).

## TigerBytes II

TigerBytes is a personal file storage application funded by the Student Technology Fee and the Office of Computing Services. TigerBytes allows students, faculty and staff to store and access their files from many computer labs on campus and through the web via their PAWS account. Each undergraduate and graduate student who is currently enrolled has 50 megabytes available to them through a H: or Home drive when they log on to a computer running Windows in one of the public labs at LSU. In addition, TigerBytes can be accessed through PAWS.

## Web Based Information

College of Engineering and Departmental home pages have technical elective lists, flow charts and curricula requirements ([www.eng.lsu.edu](http://www.eng.lsu.edu)).

The LSU Home Page [www.lsu.edu](http://www.lsu.edu) includes campus events, the general catalog with course descriptions, correspondence courses, schedule of classes, LSU directory (you can update your address & phone number here)...and much, much more!

## Engineering Communication Studio

Would you like to enhance your written, oral, visual, and technological communication skills? The studio is a place where students can learn communication skills using state-of-the-art technology, as well as seek expert advice about their projects. Located in Room 2302 P. F. Taylor, the studio provides students with a high-tech applications center with 17 computer work stations and an internet café atmosphere. It also contains a three-dimensional printer that enables students' designs to "come to life" through the creation of a functional ABS plastic model directly from design files. ([www.cxc.lsu.edu](http://www.cxc.lsu.edu)).



# **HANDS-ON EXPERIENCE**

## **The Engineering Global Initiative**

All students are encouraged to take advantage of global initiative opportunities such as: International internships and Study Abroad programs (for example: Engineering in Europe) the Global Engineering Immersion Program, General Education courses with a global engineering emphasis, and global-based design projects.

## **Internships**

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 department. Internships are available to all disciplines of students and may be located locally, nationally, or abroad.

## **Cooperative Education (Co-op)**

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 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 a higher starting salary.

## **HOW DO I APPLY?**

To apply, you must meet the following requirements:

- 1) Completion of the freshman year curriculum and have a declared a major
- 2) Be in good standing with LSU (2.0 GPA or higher)
- 3) Meet potential employer's hiring criteria
- 4) Register with Careers2Geaux

**Interested students should contact the Career Services Office, Room B4 Coates Hall, (225) 578-1548, or [career@lsu.edu](mailto:career@lsu.edu)**

## 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 student interaction can professors attain an idea of how you are handling the material, and present it in the best form possible. Also, knowing your professor ensures that you will get the attention you are paying for through tuition.
- ✓ Be involved. The transition from high school to college is just that, a transition. One way to make that transition as smooth as possible is to be involved. Active involvement in student organizations (pg. 19), religious groups, residence halls, and classes is the most likely way to ensure making new friends and having 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.
- ✓ Keep up with class work. “Enough said!”
- ✓ Check your college email account or have your account forwarded, PAWS (pg. 16), for important college information emails.
- ✓ Helpful web pages:
  - <http://www.eng.lsu.edu> – 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 PAWS (pg. 16).
  - <http://www.universitytools.com> – variety of helpful services detailed to LSU such as old exam files, schedule assistance, textbook exchange, entertainment tools, and restaurant guide.

### Parking

Parking on campus can be very difficult, so it is recommended that you give yourself some extra time before school to find a parking spot. Also, be aware that there may be on-campus events that limit student parking (ex. home football games, rodeos, or any events at the Assembly Center). If you are going to be parking on campus after 4:30pm, all lots become available for student parking as long as your tag is displayed in your window.

### Athletic Events

All athletic events (with the exception of football) are open to full time students free of charge on a first come, first serve basis. Football tickets are purchased and distributed according to the guidelines in the Fall Schedule Booklet.

### Eating on Campus

There are a variety of foods available for lunch and dinner in the LSU Union such as Papa John’s Pizza, Chick-Fil-A, McDonald’s, as well as plate lunches. If you are looking for something closer to P. F. Taylor there is Pierre’s Landing located between P. F. Taylor and Tureaud. Breakfast and hot lunches, soups, snacks, and icees are all available here along with outside covered seating. Other alternatives include the campus dining halls or off campus restaurants.

### Prerequisite/Corequisite

Students are expected to consult the current *LSU General Catalog* to ensure that they meet all prerequisites or corequisites before they schedule courses. If you schedule a course and do not meet all prerequisites or corequisites, your enrollment in that course may be canceled.

# ENGINEERING STUDENT ORGANIZATIONS AND HONOR SOCIETIES OF LSU

## College Wide Organizations

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### Engineering Council

The [Engineering Council](#) consists of one representative from each of the professional organizations, at-large members, and officers elected by the College of Engineering student body. The main goal of the council is to promote unity among the students in the different engineering departments. Council members have the ability through frequent general meetings to voice concerns of the student body and actively relay those concerns to the dean's office or appropriate university contact. Also, the council promotes comradery within the college by hosting various events such as an annual Corporate Gumbo Cookoff, Externship program, Engineering Week activities, Crawfish Boil, and Engineering Olympics. [http://www.lsu.edu/student\\_organizations/engineeringcouncil/index.htm](http://www.lsu.edu/student_organizations/engineeringcouncil/index.htm)

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### Tau Beta Pi

[Tau Beta Pi](#) is a national engineering honor society for all engineering disciplines. Seniors in the top one-fifth and juniors in the top one-eighth of their classes are eligible. Members are eligible for graduate fellowships, life subscription to "Bent" magazine, and social activities.

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### National Society of Black Engineers

[NSBE](#) is dedicated to the realization of a better tomorrow by increasing the participation of black students in engineering. NSBE promotes the recruitment, retention, and graduation of black students in engineering.

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### Society of Women Engineers

[SWE](#) unites women in the field and curriculum to promote engineering as a career choice. SWE encourages students with their studies, informs them of career opportunities, and counsels graduates.

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### Society of Hispanic Professional Engineers

[SHPE](#) is a national Hispanic Engineering Society of students and professional engineers. The goal of the society is to recruit Hispanic students into leadership in engineering. The society also serves as a link to the corporate world for its members.

## Departmental Organizations

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### Biological Engineering:

[Biological Engineering Student Organization \(BESO\)](#) is open to all biological engineering students and other interested students. The purpose of the organization is to give students a chance to meet practicing biological engineers. Activities include tours of companies, student/faculty parties, crawfish boils, and fundraisers.

## Departmental Organizations (continued)

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### **Chemical Engineering:**

The [American Institute of Chemical Engineers \(AIChE\)](#) provides services to its members such as plant visits, book sales, regular monthly meetings with guest speakers from industry and elsewhere. Other activities include crawfish boils, library volunteer work, and intramural sports.

The society of [Omega Chi Epsilon](#) promotes high scholarship, encourages original investigation in chemical engineering and recognizes the valuable traits of character, integrity, and leadership. It encourages meaningful student-faculty dialogue within the department.

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### **Civil and Environmental Engineering:**

The objective of the [American Society of Civil Engineers \(ASCE\)](#) student chapter is to encourage its members to study civil engineering and to advance the civil engineering profession.

The [Louisiana Water Environment Association \(LWEA\)](#) student chapter at LSU is an organization to promote education, student-professor relations, and the ideals of the Louisiana Water Environment Association and the Water Environment Federation.

[Chi Epsilon](#) is a national civil engineering honor society. Membership is open to the top one-third of the junior and senior civil engineering students. Improving the profession and encouraging the advancement of engineering education are among Chi Epsilon's objectives.

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### **Construction Management:**

[Construction Student Association \(CSA\)](#) is an organization for Construction Management students which includes membership in the Home Builders Association, Associated General Contractors, Associated Builders and Contractors, and the option for membership in the American Institute of Constructors.

[Sigma Lambda Chi](#) is the honor society for *Construction Management* students. Members must be juniors or seniors in the department.

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### **Electrical and Computer Engineering:**

[Institute of Electrical and Electronic Engineers \(IEEE\)](#) is actively helping to prepare students for careers through a series of guest lecturers from industry, as well as enjoyable social events.

[Eta Kappa Nu](#) is an electrical engineering honor society that consists of the top one-third of the seniors and top one-fourth of the juniors. Members participate in informal gatherings with electrical engineers and ECE faculty.

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### **Industrial Engineering:**

The goals of [Institute of Industrial Engineers \(IIE\)](#) are fundraising, the recruitment of freshmen, and information dissemination for keeping students abreast of department activities. Activities include guest speakers, socials, plant trips, and fundraisers.

## Departmental Organizations (continued)

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### Industrial Engineering (continued):

[Alpha Pi Mu](#) is a national industrial engineering honor society. Its members have demonstrated scholastic achievement, leadership, and sociability. Alpha Pi Mu encourages and rewards a high caliber of performance to help insure success within the industrial engineering profession.

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### Mechanical Engineering:

The [American Society of Mechanical Engineers](#) strives to develop leadership qualities. ASME presents opportunities for students to learn professional engineering practices, meet with practicing engineers, and interact with faculty.

[Pi Tau Sigma](#) is a national honorary fraternity for mechanical engineers. It is comprised of the top one-third of the junior and senior classes.

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### Petroleum Engineering:

[Society of Petroleum Engineers \(SPE\)](#) is committed to the growth of members toward eventual employment and leadership in petroleum related fields. Both social and professional contacts are provided and encouraged.

[Pi Epsilon Tau](#) the Petroleum Engineering Honor Society, recognizes petroleum engineering students who have excelled in leadership and academics.

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### Other Engineering Student Organizations Include:

*American Association of Drilling Engineers (AADE)*

*American Institute of Aeronautics and Astronautics (AIAA)*

*International Society for Pharmaceutical Engineering (ISPE)*

*Society of Automotive Engineers (SAE)*

*Engineers Without Borders (EWB)*



**Engineering Council celebrates National E-Week**

# SENIORS

## DATE OF GRADUATION

In order to identify yourself as a degree candidate; use PAWS to set your anticipated date of graduation. Students are encouraged to update their anticipated date of graduation every semester. You may also identify yourself as a degree candidate through the Dean's Office, 3304 P. F. Taylor, if you determine after registration that you are eligible for graduation by a certain date.

## SENIOR CHECKOUT FOR GRADUATION

Prior to the semester in which you are scheduled to graduate, a degree audit is sent to your department to certify which graduation requirements have been met and which ones are still remaining. You and your faculty advisor will review this audit, and your advisor will sign the document. Engineering majors will also be given a link to an online senior survey to complete. The survey is the EBI Engineering Exit Study by ABET to compare LSU engineering programs with other ABET programs. Next you must bring the signed audit to a counselor in the dean's office for further review and additional signatures. An Application for Degree form will be completed at this time. The entire process must be completed one semester before the graduation semester to ensure that you will be included on the final graduation list. If a student has not completed senior checkout by the time scheduling begins, then the student will not be allowed to schedule.



**May graduates apply in September and October**  
**August graduates apply in September and October**  
**December graduates apply in February and March**



## FACULTY ADVISORS TO SEE FOR SENIOR CHECKOUT

<u>Department</u>	<u>Advisor</u>	<u>Location</u>	<u>Phone #</u>
BE	Dr. Richard Bengtson	177 E. B. Doran	578-1056
ChE	Dr. David Wetzel	322 ChE Bldg.	578-3071
CE	Dr. Sherif Ishak	3418 P. F. Taylor	578-4846
EVEG	Dr. John Pardue	3221 H P. F. Taylor	578-8661
EE & EEC	Mr. John Scalzo	345 ERAD.	578-5481
IE	Dr. Gerald Knapp	3135B P. F. Taylor	578-5374
ME	Dr. Jack Helms	2210 P. F. Taylor	578-6299
PETE	Dr. Fred Thurber	3527 P. F. Taylor	578-6058
CM	Dr. L. Leslie Rosso	2517B P. F. Taylor	578-8760

## FUNDAMENTALS OF ENGINEERING EXAM

To be certified as an Engineering Intern, credit for this exam is required. The FE exam can be taken in your senior year once you have completed senior checkout. For review session information, please visit the College of Engineering website: [www.eng.lsu.edu](http://www.eng.lsu.edu). Other inquiries may be directed to the State Board at 225-925-6291.

## SENIOR PERK

If you have correctly applied for graduation by the deadline, you will be given first priority when registering for the semester you plan to graduate.

**Note: Students must be enrolled in 12 hours to use the Recreation Sports Complex, Student Health Center, or to gain admission to sporting events.**

**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.**



**Come in as a CUB  
Leave as a TIGER!**