## COLLEGE OF ENGINEERING

 THE UNIVERSITY OF TENNESSEE, KNOXVILLE


The New Engineering Complex

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| Electrical Engineering |
| Industrial \& Systems Engineering Materials Science and Engineering |
|  |  |

## Contacts

## ACADEMIC DEPARTMENTS

| Biosystems Engineering \& Soil Science | Danielle Carrier, Dept. Head .....................865-974-7266 / bess@utk.edu Daniel Yoder, Professor, Advisor. .............865-974-7116 / dyoder@utk.edu 101 Biosystems Engr \& Env Science Building |
| :---: | :---: |
| Chemical \& Biomolecular Engineering | Bamin Khomami, Dept. Head . . . . . . . . . . . . . . . . . 865-974-2421 / cbe@utk.edu Kerri Cline, Senior Advisor. . . . . . . . . . . . . . 865-974-2351/kcline4@utk.edu 419 Dougherty Building |
| Civil \& Environmental Engineering | Chris Cox, Dept. Head. . . . . . . . . . . . . . . . . . . . . . .865-974-2503 / cee@utk.edu Jeremy Mobley, Advisor ............... 865-974-0724/jmobley7@utk.edu 325 John D. Tickle Engineering Building |
| Electrical Engineering \& Computer Science | Greg Peterson, Dept. Head . . . . . . . . . . . . . . 865-974-3461 / eecs-info@utk.edu MIke Taylor, Senior Advisor . . . . . . . . . . . . 865-974-3510 / mtaylor1@utk.edu Joanna Rathbone, Advisor. . . . . . . . . . 401 Min H. Kao Building |
| Industrial and Systems Engineering | John Kobza, Dept. Head. <br> . 865-974-3333 / isedept@utk.edu 865-974-7651 / rdunca16@utk.edu <br> 525 John D. Tickle Engineering Building |
| Materials Science \& Engineering | Veerle Keppens, Dept. Head . . . . . . . . . . . . . . . . 865-974-5336 / mse@utk.edu Hannah Swan, Advisor . . . . . . . . . . . . . . . . . . . 865-974-8202 / hswan@utk.edu 414 Ferris Hall |
| Mechanical, Aerospace, and Biomedical Engineering | Kivanc Ekici, Interim Dept. Head ..........865-974-5115 / mabeinfo@utk.edu Jennifer Hartwig, Senior Advisor .......865-974-7243 / jmontgo1@utk.edu Roger Gray, Senior Advisor ..............865-974-7665 / rgray17@utk.edu 414 Dougherty Building |
| Nuclear Engineering | J. Wesley Hines, Dept. Head . . . . . . . . . . . . . . . . 865-974-2525 / utne@utk.edu Amanda Lovelace, Advisor . . . . . . . . . . . . . 865-974-8240 / alovela4@utk.edu 301 Nuclear Engineering Building |

## ADMINISTRATIVE CONTACTS

| Associate Dean for Academic and Student Affairs | Ozlem Kilic . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 865-974-2454 / okilic@utk.edu 101 Perkins Hall |
| :---: | :---: |
| Engineering Advising Office | Margie Russell, Director . . . . . . . . . . . . . 865-974-4008 / engradvising@utk.edu Lisa Byrd, Assistant Director; <br> Tucker Adkins, Advisor; <br> Kate Burford, Advisor; <br> 316A Perkins Hall |
| Engineering Fundamentals Division | Richard Bennett, Director . . . . . . . . . . . . . . . 865-974-9810 / rbennet2@utk.edu 207 Perkins Hall |
| Engineering Honors | Kevin Kit, Director . . . . . . . . . . . . . . . . . . . . . . . . . . 865-974-9810 / kkit@utk.edu 322 Perkins Hall |
| Engineering Professional Practice | Todd Reeves, Director. . . . . . . . . . . . . . . . . . . . . . 865-974-5323 / coop@utk.edu 110 Perkins Hall |
| Engineering Diversity Programs | Travis Griffin, Fred D. Brown Jr. Director. ... 865-974-0625 / travisg@utk.edu 301 Perkins Hall |

## Resources

Academic Advising

## Tutoring

Chemistry Help Session
13 Buehler H
865-974-3413
Student Disability Services OU Dunford Hal

Educational Advancement Program
Greve Hall Room 302
21 Volunteer Blvd
Engineering Fundamental Help Sessions
865-974-9810
The Math Place (Math Tutoring) odges Library North Commons 865-974-2461
Office of Multicultura Student Life
800 Melrose Ave. Black Cultural
Center
365-974-6861
Writing Center
12 Humanities \& Social Sciences
Building

Student Success Center
Greve Hall Room 324
821 Volunteer Boulevard
65-974-6641
Find additional tutoring locations at studentsuccess.utk.edu

## Additional Resources

Campus Information
865-974-1000
enter for Globa
Engagement / Study Abroad 620 Melrose Avenue 865-974-3177

Computer and Laptop Help The Commons 865-974-9900 865-974-9900 (OIT HelpDesk)

Program
301 Perkins Hal
865-974-0625
Financial Aid and Scholarships Hodges Library Ground Floor 865-974-1111

International House 1623 Melrose Avenue 865-974-4453

Office of National Scholarships and Fellowships 317 Greve Hall
865-974-3518

## Office of

Undergraduate Research
109 Melrose Hall,
1616 Melrose Avenue
865-974-8560
One Stop Shop Financial Aid, Scholarships, Transcripts, Grades, Hodges Library Ground Floor 865-974-1111
Parking Services 2121 Stephenson Driv 865-974-6031

Student Counseling Center 1800 Volunteer Boulevard 865-974-2196

Student Health Services Clinic 1800 Volunteer Boulevard 865-974-3135

Student Conduct and Community Standards 405 Student Services Building 865-974-317

University Honors Program 130 Howard Baker Center 865-974-7875

University Housing 107 Andy Holt Avenue 865-974-2571

Veterans Resource Center GO2O Hodges Library 865-974-5420

VolCard (UT ID) Office 408 Student Services Building 865-974-3430

## Contact information for

 individual collegesAgricultural Sciences \&
Natural Resources
125 Morgan Hall
Phone: 865-974-7303
Architecture \& Design 103C Art \& Architecture Building Phone: 865-974-3232

## Arts \& Science

313 Ayres Hall
Phone: 865-974-4481

## Business

342 Haslam Business Building Phone: 865-974-5096

## Communication

Information
202 Communications Building Phone: 865-974-3603

## Education, Health

Human Sciences
332 Bailey Education Complex Phone: 865-974-8194

## Engineering

316A Perkins Hal
Phone: 865-974-4008

## Nursing

203 Nursing Building
Phone: 865-974-760
Social Work
303 Henson Hall Phone: 865-974-335


The Tickle College of Engineering is committed to the belief that academic advising engages students by education community, to think critically about their role and responsibilities as engineers, and to prepare them to e educated members of a global community,
Prior to advanced registration, all students who have earned fewer than 30 hours at UT Knoxville or are on Academic Probation, or have not declared a major within a specific college (undecided, pre-major, interest undeclared) or are flagged as Off Track by UTrack main term of the academic year (i.e., during fall and each spring). All other students are required to consult with an advisor for a substantial conference during a designated term each year. Students whose ID numbers end in an even digit are required to meet with an advisor during all semester. Students whose ID numbers end in an odd semester. However, Engineering students are encouraged to consult regularly with their major advisor during each semester of the academic year, especially if they plan to participate in internship or co-op positions that might ffect class scheduling

The Engineering Advising Office delivers academic advising on an appointment basis. To make an appointment, use the e-mail link sent to you to schedule using Navigate.
Advising appointments are normally offered on 30-45-minute individual intervals. Hours operation are from 8:00 a.m. to 5:00 p.m (Eastern), Monday through Friday.

## Academic Standing

The University of Tennessee, Knoxville, expects all students who enter to make progress toward graduation. To graduate from UT Knoxville, a student must earn a minimum cumulative grade point average (GPA) of 2.O. The university reviews students' academic records at the end of each term to determine academic standing. The catalog contains additional requirement
for specific programs.

## Good Academic Standing

A student is in good academic standing when both the student's term and cumulative GPAs are 2.0 or higher or, if after two consecutive terms, the student's cumulative or higher.

## Academic Probation

A student will be placed on Academic Probation when (1) his/her cumulative GPA falls below the minimum semester GPA falls below the minimum acceptable level of 2.0 two consecutive terms of enrollment. During the semester that a student is placed on Academic Probation, and any other semesters in Academic Probation, a studen must participate in a special directive advising program
to help the student address concerns that are impacting his/her academic performance and to outline a plan for achieving academic success. While on Academic Probation, students must have met with an advisor prior to registering for all following terms, which includes summer term. This model of early intervention is designed to help students regroup and position themselves fo status during a term will automatically be dismissed at the end of that term if both:

- The cumulative GPA is below a 2.0 , and
- The term GPA is below a 2.0

For first-time, first-year, and transfer students, the summer term prior to their first fall term will not be included in the dismissal decision
A student will no longer be on Academic Probation when his or her cumulative grade point average is 2.0 o higher and the term grade point average is 2.0 or highe This policy is in place in recognition of the University of Tennessee, Knoxville's minimum grade point average o 2.0 for graduation.

## Engineering Advising



## Collaborative and Integrated Advising Community Supporting Student Success

Professional Advisor - Assist students in the development of educational plans that are consistent with their aspirations, interests, and strengths, encourage students' holistic engagement (academically, socially, culturally, and professionally) with the college experience. Educate students about curricular a chosen major. Guide students through career and professional development opportunities available. Assist students with course planning, academic forms, and technologies such as DARS, MyUTK, Grades First, and Handshake.
Faculty - Reinforce academic strategies to be successful in the major. Discuss faculty research in the major, preparation for graduate school interests, career opportunities in major field, collaborate with professional course content, technical electives in the major, and concentrations and/or minors for the major.

Career Counselor - Guide students through selfexploration process that includes strengths, interests, abilities, and challenges relating those to the world of work and goals in higher education. Assisting students in developing educational plans that are consistent with academic and career goals. Refer to campus resources that support career exploration, experience learning, and leadership opportunities. Guide students through developing resume and interview skills.
Transition Advisor - Advising and creating new academic plans for students no longer meeting major requirements and are required to change majors/college
Advising new prospective and transfer students who are not admitted to the college of their choice. Advising students and creating new academic plans with students who want to change colleges/majors but are unclear as to their new academic/career goals.
Success Center Coach - Teach and support academic success strategies such as time management, prioritization of involvements, test taking skills, campus tutoring opportunities.

How is College Life Different from High School?

| Personal Freedom in High School | Personal Freedom in College |
| :---: | :---: |
| You may be able to join many clubs and activities while taking classes. | You must be selective in your participation choices to avoid overextending yourself. |
| Your time is usually structured by others. | You manage your own time. |
| Guiding principle: You will usually be told what your responsibilities are and corrected if your behavior is out of line. | Guiding Principle: You are old enough to take responsibility for what you do and don't do, as well as for the consequences of your decisions. |
| High School Classes | College Classes |
| You spend 6 hours each day-30 hours a weekin class. | You spend 12 to 16 hours each week in class. |
| The school year is 36 weeks long; some classes extend over both semesters and some do not. | The academic year is divided into 2 separate 15 week semesters plus a week for exams. Summer School is in 3 sessions; First and Second are 4 weeks each and Full is all summer. |
| You are provided with textbooks at little or no expense. | You need to budget substantial funds for textbooks. |
| You are not responsible for knowing what it takes to graduate. | Graduation requirements are complex and differ for different majors and sometimes different catalog years. You are expected to know those that apply to you. Learn to run your DARS report. |
| High School Teachers | College Professors |
| Teachers check your completed homework. | Professors may not always check completed homework, but they will assume you can perform the same tasks on tests. |
| Teachers remind you of your incomplete work. | Professors may not remind you of incomplete work. |
| Teachers approach you if they believe you need assistance. | Professors are open and helpful, but most expect you to initiate contact if you need assistance. |
| Teachers present material to help you understand the material in the textbook. | Professors may not follow textbooks. Instead to amplify the text, they may give illustrations, provide backgroud information, or discuss research about the topic you are studying. They may expect you to relate the classes to the textbook readings. |
| Teachers often write information on the board to be copied in your notes. | Professors may lecture nonstop, expecting you to identify the important points in your notes. When professors write on the board it may be to amplify the lecture, not to summarize it. Good note taking skills are a must. |
| Teachers often take the time to remind you of assignment and due dates. | Professors expect you to read, save, and consult the course syllabus. It spells out exactly what is expected of you, when assignments are due, and how you will be graded. |


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| :---: | :---: |
|  |  |
| Youn |  |
| Sole | You are assigned substantial amounts of reading and problem solving which may not be directly addressed in class. |
|  |  |
| Lemanminse | Larsm colese |
| Testigis ifeaw | Testing is usually infrequent and may be cumulative, covering large amounts of material. You, not the professor, need to organize the materials to prepare for the test. A course may only have 2 or 3 tests in a semester. |
|  |  |
| Tomen | Tent |
| Ticter |  |
| crasem men samol | Grasem coliso |
|  | Comas |
|  |  |
|  |  |
| Hemmm noprsion | Homan mellige |
|  |  |
|  | Tutoring in college may be with a professor or tutoring center staff or fellow student on campus. Often in small |

## Center for Financial Wellness

## financialwellness.utk.edu

The Financial Wellness Center, located inside the One Stop Student Services Office, helps students improve money management skills through one-on-one appointments, presentations, and online resources. Broaden your money management knowledge and learn the most current and relevant information possible to make the best financial decisions to meet your goals. Explore your own financial information in greater detail by using these powerful tools and calculators to forecast and assess your financial standing.

## ndividual Appointments

Start developing the skills you need to succeed with money via one-on-one meetings with peer guides, who can provide information on

- Financial goal setting
- Creating a spending plan
- Saving
- Credit cards and scores
- Student loan types
- Student loan repayment options
- Banking basics

What to Expect: You and your peer guide will discuss your current financial situation, your goals, and the best strategy for follow up. To get the most out of your visit, it may help to bring specific figures or
statements. Please note that peer guides provide education, information, and strategies only. Students statements. Please note that peer guides provide education, information, and strategies only. Stud

## Ready to Schedule Your Appointment?

1. Log in to MyUTK with your netID and password.
2. Under the Academic Support, select Grades First.
3. Then select Appointments for Advising or Other Academic Help.
4. Select Financial Wellness
5. Select Financial Wellness again.
6. Select Location - Hodges Library
7. Select Appointment Time.

## Services also include:

## CashCourse:

A website with comprehensive, noncommercial information to help inform your financial decisions
Net Price Calculator:
This calculator is intended to provide you with estimated financial aid and out-of-pocket costs based on the information you enter about yourself and your family.

## Loan Calculator:

Many families use loans in addition to other funding sources to help finance educational expenses, but we recognize there is a lot to consider when using loans. Our team is committed to helping you identify the very best and most responsible financing plan to support your goals. These tools will help shed light on repaying your loans.

## Scholarships, Student Organizations, Technology \& Student Privacy

## Tickle College of Engineering Undergraduate Scholarships

The Tickle College of Engineering annually awards an average of nearly $\$ 1,000,000$ in scholarships to qualified undergraduate students. Students must be accepted into the University of Tennessee and the scholarships. Students need not apply for specific scholarships as the Scholarship Committee will matc qualified students with available awards. Please contact
requirements and deadlines, Hodges Library Ground Floor, 865-974-1111, onestop.utk.edu/your-money. The returning/transfer student scholarship application is on MyUTK. Application deadline is February 1. Scholarships are awarded each academic year in the spring for the upcoming fall semester. For more information contact the Academic and Student Affairs Office at $865-974-2454$ or stop by 101 Perkins Hall.

## Student Organizations and Honor Societies (tickle.utk.edu/student-organizations)

## Student Organization

- American Institute of Aeronautics and Astronautics
- American Institute of Chemical Engineers
- American Nuclear Society

American Society of Agricultural and Biological Engineers

- American Society of Civil Engineers
- American Society of Mechanical Engineers
- Associated General Contractors of America
- Association of Computing Machinery
- Biomedical Engineering Society
- Tickle College of Engineering Ambassadors
- Engineering Mentor Program
- FIRST Alumni at UT Knoxville
- Hydrolunteers
- Institute of Electrical and Electronics Engineers - Institute of Industrial \& Systems Engineers - Institute of Transportation Engineers
- Material Advantage


## Technology

tickle.utk.edu/ithelp/computers/
Laptops are required for all students, including incoming freshmen. VolTech, located within the Student Union on campus, sells Apple and PC computers, mobile devices, and accessories at reduced rates for students. The website is utvolshop.com/c-276-voltech.aspx

## ERPA STATEMENT

Family Education Rights and Privacy Act (FERPA)
The method with which the University of Tennessee governs the distribution of student information is based on governs the Edstributiol Rights and Privacy Act of 1974 or FERPA. This Act, as amended, established the requirements governing the privacy of student educational records in regards to the release of those records and access to those
The Act gives four basic rights to students:

- the right to review their education records;
- the right to seek to amend their education records; - the right to limit disclosure of personally identifiable information (directory information)

National Society of Black Engineers

- Society of Automotive Engineers
- Society of Hispanic Professional Engineers

Society of Women Engineers

- Systers: Women in EECS
- Theta Tau Professional Engineering Fraternity
- UTK Volunteers Without Borders

Women in Industrial and Systems Engineering - Women in Nuclear

## Honor Societies

Alpha Nu Sigma, Nuclear Engineering Honor Society

- Chi Epsilon, Civil Engineering Honor Society - Eta Kapp Nu, Electrical Engineering Honor Society - Pi Tau Sigma, National Mechanical Engineering Honor Society
- Tau Beta Pi, National Engineering Honor Society
- and the right to notify the Department of Education concerning an academic institution's failure to comply
with FERPA regur with FERPA
FERPA provides for confidentiality of student records; however, it also provides for basic identification of people at the University of Tennessee without the consent of the
individual. Release of information to third parties includes directory information, such as contained in the campus directory, in the online web-based people directory and in sports brochures. Students are notified of their FERPA rights and the procedures for limiting disclosure of directory information in Hilltopics, at Orientation for new
students, and on the website of the University Registrar. students, and on the website of the University Registrar, registrar.tennessee.edu.


## Diversity Programs

## Office of Diversity Programs

 Travis Griffin, Program Director301 Perkins Hall, Knoxville, TN 37996-2360 elephone: 865-974-0625
ickle.utk.edu/diversity
Tennessee Louis Stokes Alliance for Minority Participation (TLSAMP)
The Tennessee Louis Stokes Alliance for Minority Participation (TLSAMP) is a partnership between Tennessee State University, LeMoyne-Owen College, Middle Tennessee State University, University of Memphis, University of Tennessee and Vanderbilt University. The program's goal is to increase the number of under-represented minority
students studying and graduating in Science, Technology, Engineering and Math (STEM).
The objectives to support the goal of the alliance are to:

- Recruit under-represented minority students to pursue science or engineering as a career;
- Improve the quality of the learning environment for under-represented minority science and engineering students at all schools; and
- Ensure that a large number of undergraduate students are prepared to enter graduate school.


## Programs/Services

- TLSAMP Seminars
- Collaborative Learning
- Drop-In Center
- Graduate School Preparations - Mentoring
- Undergraduate Summer Research
- Research Symposium


## - Summer Bridge Program

## Retention Efforts

- Financial Assistance
-Tutorial Programs/Services
- Strategies for Basic Skills Courses


## National GEM Consortium

The college is committed to outreach and retention efforts to increase the number of female engineering students. Today, more than ever, women are discovering the exciting
opportunities and unique challenges in the engineering field. At UT, we encourage the interest of young women the science, techonology, engineering, and math (STEM) fields thorugh outreach, pre-college programs, and mentoring and support during their college careers The college is proud of the fact that the number of our female professors has increased to a total of 27, at present. The presence of accomplished women who
serve as faculty memebers serves as inspiration for both serve as faculty memebers serves as inspiration for recently joined the college.
Signature Programs/Services

- WomEngineers Welcome Dinner
- WomEngineers Day
- Mentoring Opportunities
- Student Organizations



Engineering Professional Practice
Todd Reeves, Director
110 Perkins Hall, Knoxville TN 37996-2030 elephone: 865-974-5323
coop.utk.edu
Cooperative Education (Co-op) Program tudents have the opportunity to gain real world experience in their engineering field of study by workin multiple semesters (normally three) with the same mployer before they graduate.
Typically a co-op student will alternate between sophomore year. The exact co-op rotation plan is created by the student in coordination with the Engineering the needs of their particular co-op employer. Making use of the summer semesters for work assignments or classes nable the co-op experience to have minimal impact on a tudent's planned graduation date.
Internship Program and Benefits
The internship program aiffers from co-op in that the
10 Tickle College of Engineering
ASSESSMENTS

- Strong Interest Inventory
- TypeFocus
APPOINTMENTS
- Choosing a major/career
- Resumes and interviews
- Job and internship search
Claduate/professional school planning
CASSES
- Exploring Majors and Careers
IDENTITY-SPECIFIC
RESOURCES
- Disability employment topics
- Diversity events
- Veterans Initiatives
CONNECTIONS
- Career Conversations panels
- Networking events
- VolTreks
- Career fairs
EXPERIENCE


## CONTACT INFO

STUDENT UNION LEVEL 2 • 865-974-5435 • CAREER.UTK.EDU

## ARE YOU CAREER READY?

| COMPETENCY | DEFINITION | What can / do? |
| :---: | :---: | :---: |
| Critical Thinking/ Problem Solving | Practice sound reasoning and <br> skills to make decisions and overcome problems | 1. Participate in undergraduate research programs within TCE and beyond <br> 2. Reflect on the skills developed through engineering fundamental courses |
| Oral/Written Communications | Articulate thoughts and idea clearly to a variety of audiences and employ effective public speaking skills | 1. Present your research findings in class or at a conference 2. Join a student organization where you can hone your oral communication skills, such as the Speech and Debate Society or the TCE Engineering Ambassadors |
| Teamwork/ Collaboration | Build collaborative relationships with coworkers and be able to work well in a team environment | 1. Work with a team of fellow students and compete in the Steel Bridge Competition <br> 2. Participate in UT's EcoCAR 3 Team to gain hands-on <br> experience working on a multidiscipilinary collaboration |
| Digital Technology | Leverage existing digital technologies thically and efficiently to complete tasks; demonstrate effective adaptability to new technologies | 1. Use your Linkedin Learning account to learn more about coding and various programming languages <br> 2. Take courses that will expand your knowledge of how to use MATLAB |
| (171) Leadership | Utilize the strengths of others to achieve common goals; use interpersonal skills to develop and motivate others | 1. Join one of 30 or more engineering student organizations and seek a leadership role <br> 2. Show initiative and provide leadership for group projects assigned in courses |
| (20) $\begin{array}{r}\text { Professionalism/ } \\ \text { Work Ethic }\end{array}$ | Exhibit effective work habits such <br> as punctuality, working productively, personal accountability, integrity, and ethical behavior | 1. Participate in events sponsored by professional associations within TCE, e.g., Society of Women Engineers, the Engineering Mentor Program, or the National Society of Black Engineers <br> 2. Intern or co-op with a company of interest to gain related experience and build professionalism |
| Career Management | Identify skills, strengths, knowledge, experiences, and areas of growth related to career goals; navigate iob options and pursue opportunities | 1. Meet with the Engineering Career Consultant to update your resume and create career goals <br> 2. Attend the Engineering Expo or the STEM \& Engineering Career Fair to network with companies and learn about opportunities |
| Global/ Intercultural Fluency | Demonstrate openness, inclusiveness ivity, and the ability to interact respectfully with all people; understand individuals differences | 1. Participate in an Engineering Faculty-Directed Study Abroad Program such as trips to London, Milian or Hamburg 2. Go on a TCE Alternative Spring Break trip and participate in a local impact engineering project |

Adapted from the NACE Career Readiness Competencies

## Global Experiences

The University of Tennessee has embarked on an
ambitious plan to help students gain the internation intercultural knowledge they need to succeed in today'sworld. Engineering, like all professions, is becoming veryglobally oriented. It is important for you to take advantageof opportunities while you are a student in order to be
Ready for the World. Apply for your passport now-theReady for the
world awaits!
UT Programs Abroad Office (PAO)
The "PAO" provides students with information about their options or overseas study, research, work, volunteer project
and travel. The PAO administers most of UTs international one-for-one student exchange programs, including ISEP. Attend an information session at the Programs Abroad Office (1620 Melrose Hall). Information sessions are held at 2:00 om every Monday-Friday during the academic year. During the general information session, we discuss the programs
available to you, what to look for in a program, how to use the resource center, using financial aid, transferring credits, programs requirements, and will answer your questions. If you are unable to attend an information session due to a glad to schedule an appointment for you ( $865-974-3177$ or volsabroad@utk.edu).
contact:
Center for Global Engagement, Programs Abroad Office 20 Melrose Avent Phone: 865-974-3177
Email: volsabroad@utk.edu
Study Abroad for Engineering Students
Engineering study abroad programs allow you to stay one semester or shorter in an English speaking or foreign
language-based schools throughout the world. You can language-based schools throughout the world. You can choose between individual trips or pre-arranged trips, UT students. Prior to applying for an Engineering Study Abroad Program, you should schedule an advising session with your Tickle College of Engineering advisor. You are eligible to apply for the Study Abroad Program after freshman year or after the first semester at UT, if you are
a transfer student. Most programs require a minimum 2.5 a to 2.75 GPA. For non-English language programs, it is
required that you have minimum 4 semesters of equivalen
Thul UT Study Abroad programs include 5 types of programs: UT faculty-led, Exchange, Direct, Third Party, and

## Contact:

Kevin Kit, Director
Engineering Honors
22 Perkins Hall
Phone: 865-974-9874
Web: tickle.utk.edu/study-abroad


Global Engineering Initiatives
The Tickle College of Engineering offers the opportunity for ten days, scherperiences for students for periods of a week to ten days, scheduled during school breaks. This enables the interrupting classes or delaying graduation.
The flagship program for this initiative is the Engineering to participate in an engineering project of local impact. On trips during other times of the year, engineering students may participate in a field-relevant service project in a foreign location, see engineers at work outside of the United States, or observe engineering applications and method engineering university, lectures on specific engineering challenges, tour of a plant or manufacturing facility, or observations of pertinent engineering developments in
locations overseas. Students will also visit sites of cultural and historic significance.
Although these programs are not credit-bearing, they satisfy the Honors' "Global Experience" requirement and are a significant addition to a resume. A limited
scholarships are offered to defray travel costs.
Contact:
Judith Mallory, International Coordinator
hone: 865-974
E-mail: jmallory@utk.edu Web: tickle.utk.edu/global/

## Graces

Grades, Credit Hours, Grade Point Average The unit of credit is the semester credit hour. One sem
credit hour represents an amount of instruction that reasonably approximates both 50 minutes per week of classroom-based direct instruction and a minimum of two hours per week of student work outside the classroom ove all or spring semester. Normally, each semester credit hour represents an amount of instruction that is equivalent amount of time that is required to earn one semester credit hour in a laboratory, fieldwork, studio, or seminar-based ourse varies with the nature of the subject and the aims of the course; typically, a minimum of two or three hours of work in a laboratory, field, studio, or seminar-based setting s considered the equivalent of 50 minutes of classroombased direct instruction. Semester credit hours earned in etc. are based on outcome expectations established by the academic program.
Each course at the university carries a number of credit hours specified in the course description. At the completion of each course, a student will be assigned a grade reflecting the student's performance in the course. Passing grades carry a certain number of quality points per credit hour in the course. A student's grade point average is obtained by dividing the Knoxville by the number of hours the student has attempted at Unoxville, not including hours for which grades of $1, N^{-}$ NC, NR, P, S, and W have been received.
Undergraduate Grades

| Grade | Performance <br> Level | Quality Points <br> Per Grade |
| :---: | :---: | :---: |
| A | Superior | 4.00 |
| A- | Intermediate Grade | 3.70 |
| B+ | Very Good | 3.30 |
| B | Good | 3.00 |
| B- | Intermediate Grade | 2.70 |
| C+ | Fair | 2.30 |
| C | Satisfactory | 2.00 |
| C- | Unsatisfactory | 1.70 |
| D+ | Unsatisfactory | 1.30 |
| D | Unsatisfactory | 1.00 |
| D- | Unsatisfactory | .70 |
| F | Failure | 0.00 |

## First Year Composition

First year composition courses are offered on a system of A, A-, B+, B, B-, C+, C, I, N, W grading. All entering first year a first year composition sequence during their first year unless they have been awarded equivalent credit through credit by examination or dual-enrollment or other transfer coursework.
nternational Students
Entering international students whose native language is not Advish are placed in English courses based on TOEFL sCo

## ABC/N Grading System

$\mathrm{ABC} / \mathrm{N}$ grading is an alternative to the standard A-F grading system. Courses offered only on the $A B C / N$ grading system are identified in the course description. For a course offered

- A student who earns a grade of $\mathrm{A}, \mathrm{A}-, \mathrm{B}+, \mathrm{B}, \mathrm{B}-, \mathrm{C}+$, or C will have that grade entered on the permanent record. student's cumulative grade point average and an in-state student's HOPE grade point average.
- A student who earns a grade of C-, D+, D, D-, or F will have that grade entered on the permanent record with the letter N as a prefix (for example, NF). In this case, hours earned in
the course will be removed from the student's earned-hour total, but will be included in the student's attempted-hour total. Grades with the N prefix will not be included in the but will be includ student's cumulative grade point but will be included in the calculation
student's HOPE grade point average.
Transfer students are held to the same program requirements and policies as UT students. For students who transfer to UT coursework in a course with ABC/N grading, only courses
which a grade of C or higher was earned will be eligible to meet program requirements.


## Changes in Registration

or full term fall and spring classes, undergraduate students may add classes through the seventh calendar day counted for
For single session fall and spring classes, undergraduate students may add classes through the sixth calendar day counted from the beginning of the session
Because of the nature of some classes, permission of the the first day of the term or session. Students may also, as departmental policies permit, change class sections through he add deadline
Students may drop classes, with no notation on the academic ecord, through the seventh calendar day of the term. From he eighth calendar day of the term until the 84th calendar classes and receive the notation of W (Withdrawn) on the academic record
After the 84th calendar day of the term, students may not drop full term fall and spring classes. From the 85th day of the term to the last day of classes, a student may completely isted in the catalog section Total Withdrawal from the University.
For single session fall and spring classes, students may drop Classes, with no notation on the academic record, through the sixth calendar day of the session. From the seventh calendar day of the session until the 38 th calendar day of the session,
students may drop single session fall and spring classes and students may drop single session fall and spring classes and
receive the notation of $W$ (Withdrawn) on the academic record. After the 38th calendar day of the session, students may not drop single session fall and spring classes.

## Grades

he following are additional regulations related to dropping individual full term fall and spring classes
after the seventh calendar day of the term, or dropping ndividual single session fall and spring classes after the ixth calendar day of the session

Students are allowed six individual class drops during their academic career (until a first bachelor's degree drop of another course or courses due to a mutual counted as only one of the four class drops.
Former students holding a bachelor's degree from UT or any other regionally accredited institution of higher earning who return to pursue a second bachelor's degree are allowed six additional individual class drops. simultaneously are not allowed additional drops beyond the six individual class drops.
Total withdrawal from a term (dropping all courses) does not impact a student's six allowed individual class drops. The W grade is not computed in the grade point average.
Classes may be dropped using MyUTK
Failure to attend a course is not an official withdrawal and
Grades that do not Influence Grade Point
The following grades carry no quality points and hours for which these grades are earned are not counted in computing a student's grade point average.

- NC (No Credit) indicates failure to complete a course satisfactorily when taken on an S/NC basis.
S (Satisfactory) is assigned for C or better work when a course is taken on an S/NC grading basis. W (Withdrawal) is assigned in courses when a student has officially withdrawn from the university. W is also a course between the 11th and 84th calendar day of classes. Regulations concerning withdrawal from courses or from the university appear under Adds,


## Drops, and Withdrawals

## Satisfactory/No Credit Grading System

The purpose of this system is to encourage the student to venture beyond the limits of those courses in which the tudent usually does well and, motivated by intellectual curiosity, explore subject matter in which performance subjects. To this end, Satisfactory/No Credit (S/NC) grading has been developed for undergraduate courses (100-, 200-, 300-, and 400-level courses).

- Neither grade is counted in a student's grade point average, but, like all other grades, is entered on the permanent record.
$S$ is given for $C$ or better work on the traditional grading The student only receives credit in the course if an $S$ is received. - A student may not repeat a course for S/NC if the student received a conventional grade (A, A-, B+, B, $\mathrm{B}-, \mathrm{C}+, \mathrm{C}, \mathrm{C}-, \mathrm{D}+, \mathrm{D}, \mathrm{D}-$, and F ).
If the student elects non-conventional grading, grades of
permanent academic record as S , and $\mathrm{C}-\mathrm{D}+\mathrm{D}$, D - or F as NC

The grade of I for incomplete work will be recorded as an SI , which will not be computed in the average A student is permitted to change the system of
grading in a course through the add deadline. The changing of an S/NC grade to a conventional lette grade or vice versa is not permitted unless an error is

Repeating Courses

## General Repeat Policy

Students who are struggling with a class should talk with their advisor before deciding whether to withdraw from - Courses may be repeated twice, for a total of three attempts per course.
A grade of W does not count as one of the
three attempts.
Grades of C-, D+, D, D-, F, Incomplete, and NC are counted as one of the three attempts.
No course may be repeated if a grade of C or better Each repeateen earned.
determining credit hours presented for graduation With limited exceptions (see Grade Replacement Policy), all grades earned in repeated courses will count in calculating the GPA.
Exceptions to the number of times a course may permission from the head of the department where the course is being offered and the student's college dean or designee.

## Grade Replacement Policy for Three Lower Division

(100-400 Level) Courses
Students may replace up to three grades earned in undergraduate (100-400 level) courses by repeating the course. All other grades will be included in
computing the cumulative grade point average.
For in-state students, only one grade replacement can be used to raise the student's HOPE GPA.
Grades in no more than thirteen hours of course work
may be replaced under this policy.
Grades of C or higher (or a grade of S for S/NC
graded courses) may not be replaced under this
policy.
If the same course is repeated more than once, the
additional repeat(s) will count toward the total of three allowed grade replacements.
Repeating a course in which an NC or a W grade has
been earned does not count as one of the three grad replacements.
In computing the cumulative grade point average, the highest grade earned in the course will be used.
student's academic histos completed remain on
Transfer course grades cannot be replaced (see
Transfer Admission Policy).

## One Stop Student Services

Hodges Library Ground Floor
Knoxville, TN 37996-0200
Phone 865-974-111

## Career Information

Aerospace Engineering
mabe.utk.edu
What is Aerospace Engineering?
Aerospace engineering uses the basic ciences and mathematics to develop the

production, testing and applied research associated with aerospace vehicles. These vehicles include aircraft, pacecraft and missiles. Auxiliary and propulsion system re also an integral part of this education. These include urbo-fan and piston engine/propeller systems.
he educational objectives of the aerospace engineering program are:

Graduates will meet or exceed the expectations of employers of aerospace engineers, such as governmental organizations.
Graduates will continue professional development by participating in structured professional activities and/ or by obtaining professional registration or certification post-graduate credits and/or advanced degrees.

## Biomedical Engineering

mabe.utk.edu
What is Biomedical Engineering?
Biomedical engineering is the applicatio $f$ engineering principles and methods to he solution of problems in the life sciences
 tissue engineering); and in intact organisms, including humans in particular. Mature practice areas include the design of biomedical measurement systems (e.g., intensive care monitoring stations); orthopedic devices (e.g., artificial oints); and artificial organs (e.9., artificial kidneys). Currently, here is much attention being given to computationa advanced artificial organs (e.g., heart-assist and total artificial heart blood pumps, artificial livers). Among the most exciting new areas of biomedical engineering research s the newly defined discipline of cell and tissue engineering, hich involves the modification of living cells and tissues to meet specific clinical needs (e.g., artificial skin)
$n$ their professional roles, biomedical engineers must be knowledgeable in both the life sciences and the engineering
sciences. In many career roles, biomedical engineers serve intermediary role in bridging the gap between classically rained engineers and medical practitioners. Basic life science preparation includes the study of cell biology d human anatomy and physiology. The engineering oreparation includes basic mechanics, electrical and


Career Opportunities
The demand for air transportation is projected to increase many-fold early this century. Our renewed quest in space will accelerate as full realization is made of spinoff benefits to society. These endeavors will increase employment opportunities for aerospace engineers in the future. Graduates at UT are actively sought by industry Major employers such as Boeing, Pratt and Whitney, NASA, General Electric, Honeywell, Lockheed-Martin, ATK and Arnold Engineering Development Center (which houses
the largest wind tunnel test facilities in the world, located in Tullahoma, Tennessee) actively recruit our students. Many of our BS students choose to continue their education at graduate school.
pre-medical school topics. Required mathematics includ calculus, differential equations, matrix methods and statistics.
The educational objectives of the biomedical engineering program are:

- Graduates will meet or exceed the expectations of employers of biomedical engineers, such as industry, government, academia or nonovernmental organizations.
- Graduates will continue professional development by participating in structured professional activities and/ post-graduate credits and/or advanced degrees.


## Career Opportunities

## Biomedical engineers work in a variety of settings

 including the biomedical product manufacturing industry biomedical research and development organizations, agencies (e.g., FDA, NASA, DOD), and in biomedical product technical sales. Work in many of the more challenging technical areas (e.g., cell and tissue engineering) requires an advanced degree. BME graduates can also structure their electives to fulfill pre-med requirements for those wishing to pursue medical school.
## Career Information

Biosystems Engineering bioengr.ag.utk.edu

## What is Biosystems Engineering?

Today's tightly-focused engineering
 specialties would probably amaze the great
engineers of the past. Many of them were uccessful precisely because they understood a diverse ange of engineering concepts and could integrate that

Biosystems engineering is the most "integrative" engineering iscipline available today. It combines elements from engineering disciplines to produce the broadest possible engineering skill set. This engineering background is complemented with a focus on biologically-based systemscritical for solving problems involving people and the environment. Finally, biosystems engineering adds the career-intensive design projects computer and graphics raining; presentation skills; engineering economics; and practical teamwork.
With this broad foundation, upper-level biosystems engineering students are uniquely positioned to focus on almost any area of engineering. Potential areas include biofuels; environmental systems; machine design and optimization; soil and water conservation; instrumentation nd sensors; bio-reactors, food processing; waste treatmen on an a host of other possibilities.

## Chemical and

## Biomolecular Engineering

cbe.utk.edu

## What is Chemical and

 Biomolecular Engineering?

Chemical and Biomolecular engineering deals with developing industrial processes and systems used to manufacture products that require chemicals. Chemical
and Biomolecular engineers play a very important role in the production of items we use every day such as foods, medicines, fuels and clothing. Some examples of chemical engineering include developing improved food processing echniques, producing medicines more affordably in large quantities, finding more efficient ways to refine petroleum, nd constructing fibers that make clothing more comfortable and resistant to stains.
As a chemical and biomolecular engineering student at UT, you will learn how to design processes and equipment or reacting chemicals that will improve the way many will study the concepts of heat transfer, mass transfer, kinetics, and fluid flow to solve problems that may lead to the development of new medications, computing devices, fuels, plastics, and polymers vital to enhancing the quality
of life around the globe.

The BESS department's program objectives: Recent graduates are to

Be successful in securing employment in the profession or a position in graduate or professional school.
Continue developing as professionals.

## - Demonstrate success in their chosen career path

## Career Opportunities

As a biosystems engineer, you can choose from an unusually diverse range of job opportunities. You will be well prepared to lead a team as a project engineer because of your design products or processes in a variety of agricultural, manufacturing and service industries. You might consider working as a consultant, in product marketing, or for a management services firm. Government agencies and educational and research institutions also employ many biosystems engineers, or you may want to enhance your career by entering graduate or medical school. You will be
particularly qualified to work at the interface of technology and living systems-whether in food and fiber production, environmental issues or in a biological context.

Civil and Environmental

## Engineering

## ee.utk.edu

What is Civil and
Environmental Engineering?
Civil and environmental engineers plan,

will transform our transportation system and create opportunity to reshape our communities. As the need for surface parking decreases there will be opportunities to reintroduce nature into our urban areas, to better manage
our water resources, and to grow our food closer to where we live. As a civil and environmental engineer, you will be at the center of this infrastructure revolution.
We will prepare you to enter this exciting field at the We will prepare you to enter this exciting field at the
University of Tennessee, Knoxville. Our program features hands-on learning through laboratories, real-world project-based learning, flexibility to develop technical expertise in areas that interest you, development of your communication and professional skilis and opportunities for co-ops and internships, undergraduate research, study place ready to make an impact
Career Opportunities
Civil and environmental engineers are employed by engineering and construction firms, industry, all levels of government, utilities, academia, among others. Typical
career paths provide opportunities to work outside, to oversee a project from start to finish, to contribute to landmark infrastructure projects, to work internationally, to grow in leadership responsibilities, and to collaborate with clients, stakeholders, and the public to improve our communities.
Civil engineers often own their own businesses or volunteer their skills in developing countries. More than anything, civil and environmental engineering is a grea profession for people who want to make a difference.


Computer Engineering

## www.eecs.utk.edu

What is Computer Engineering? eomputer engineering deals with the
computer engineering and the programming side of computer
science. Often, a student can study electrical engineering science. Often, a student can study electrical enging.
to cultivate a background in computer engineering. to cultivate a background in computer engineerling. and technology that drive our future, computer engineering has now become a discipline by itself. Typically, a computer engineering curriculum provides a background in three broad areas-hardware, software and hardware-software integration. Students will also have the opportunity to explore fundamental topics such
as microprocessors, computer architecture, digital signal as microprocessors, computer architecture, dinications,
processing, operating systems, data communicater and other related material. In addition, the program includes core engineering subjects that are common to all engineering disciplines.
The program educational objectives of the computer engineering program include.

Will apply the knowledge of the fundamentals of engineering, science and mathematics in the practice

## Computer Science

www.eecs.utk.edu
What is Computer Science?
At one pole is computer science, primarily concerned with theory, design, and mplementation of software. It is a true engineering discipline, even though the product is as intangible as a computer program. At the other pole is computer engineering, primarily concerned with firmware (the microcode that controls processors) and hardware (the processors themselves, as well as entire computers) $t$ is not possible to draw a clear line between the two disciplines; many practitioners function to at least some extent as both computer engineers and computer scientists. Computer Science is the study of software and hardware systems, and theory of computation. Students must be ble to integrate material and concepts from these area So, for example, students use analysis of algorithms select or design software to solve a problem on a would be selecting or writing the software for a network router, combining optimization theory, graph algorithms, networking, knowledge of the hardware and professiona software methods. The emphasis is on foundations and the ability to learn new developments in the field
of electrical/computer engineering or in advanced professional studies; will identify, formulate and solve electrical/computer engineering problems. - Will analyze and design complex devices and systems containing hardware and software components with consideration of economic, ethical, safety,
environmental, and social issues; will be able to use modern engineering techniques, skills and tools. will communcat disciplinary teams, and engage in lifelong learning

## Career Opportunities

Computer hardware engineers are expected to have favorable job opportunities. Employment of computer hardware engineers is projected to increase faster than the average for all occupations, reflecting rapid
employment growth in the computer and office employment growth in the computer and office of computer engineers. Consulting opportunities for computer hardware engineers should grow as businesses need help managing, upgrading and customizing increasingly complex systems. Growth in embedded systems, a technology that uses computers to control
other devices such as appliances or cell phones, also will increase the demand for computer hardware engineers.


Career Opportunities
Career Opportunities in many fields exist for our graduates. Most generally, they are prepared to work in laboratories that develop software intensive products. These include, for example, automotive components, financial systems,
consumer appliances (cell phones, personal computers), consumer appliances (cell phones, personal computers), scientific research facilities (space stations, trout, switches) scientific research facifities (space

Career Information

Electrical Engineering
www.eecs.utk.edu
What is Electrical Engineering
Electrical engineering deals with the
application of the physical laws governing
charged particles. From miniature integrated circuits that contain millions of microelectronic devices, to high-speed
fiber-optic communication systems that span international fiber-optic communication systems that span international modern-day living. Electrical engineering is unique among the engineering disciplines because of its wide range of applications. Subject areas within electrical engineering are so diverse that it is not always apparent that there is a underlying connection. The range of subjects is not only road but is also expanding.
The program educational objectives of the electrical engineering program include:
Will apply the knowledge of the fundamentals of engineering, science and mathematics in the practic
of electrical/computer engineering or in advanced

## ndustrial Engineering se.utk.edu <br> What is Industrial Engineering? <br> industrial engineers design, install, improve, and control complex systems that integrat <br> 

 people, materials, information, finances,echnology, and facilities. These systems could be broad, or focused, such as an employee workstation or how a customer experiences a service. Industrial engineers are problem solvers who use their skills with math, science, and engineering to solve difficult, multi-faceted, often multi-disciplinary problems. The primary design focus on cost, time, quality, and flexibility distinguishes industria ther types of engineers design things, industrial engineer design the systems that enable those things to work effectively. The skills required for this field frequently lead o management and leadership positions.
Do you have the skills and interests of an industrial engineer? You may want to consider the following questions: Do you enjoy solving challenging problems with many working parts?
Do you constantly think about how things could
-Do you like to have a plan?

- Are you strategic? Do you like to see the big picture? - Do you enjoy taking the lead and guiding teams to the solution for a specific problem?
Are you strongly motivated? Do you show initiative? Can you deliver a presentation to sell your point of view?

If you answered yes to any of these questions, you may have what it takes to be an industrial engineer!
professional studies; will identify, formulate and solve electrical/computer engineering problems.
Will analyze and design complex devices and systems containing hardware and software components with consideration of economic, ethical, safety, environmental, and social issues; will be able to use modern engineering techniques, skills and tools.
Will communicate effectively, function on multi-
disciplinary teams, and engage in lifelong learning.

## Career Opportunities

The growth trends for employment of electrical engineering graduates are expected to increase
projected job growth stems largely from increased demand for electrical and electronic goods, including advanced communications equipment, computer communications, biomedical instrumentation, defense-related electronic equipment, and consumer electronics products. The need
for electronics manufacturers to invest heavily in research and development to remain competitive and gain a scientific edge will provide openings for graduates who have learned the latest technologies.

Students in the program gain hands-on experience and forge beneficial relationships with industry, business, and agencies through co-ops, internships, research, study abroad opportunities, clubs, professional organizations,
and coursework including topics such as work methods, and coursework cluching techniques, and facilities design, plus completing a senior design project for a local partner. Students also have the opportunity to take advantage of the many labs in our department including the ideation lab (3-D printing, etching, simulation, etc.) and senior design lab.
The program prepares students to:

- Have successful professional careers that employ industria and systems engineering concepts and principles Pursue life-long learning


## Career Opportunities

Industrial engineers have a range of career fields available, with wide-ranging applications:

- Manufacturing
- Entertainment
- Healthcare
- Public services
- Construction
- Logistics and Supply Chai - Retailing

In all areas, there is increasing emphasis on improving quality and productivity. Industrial engineers work closely with top management to achieve these goals. Industrial engineers command very competitive salaries in a strong market that is expected to grow by $10-15 \%$ in the next decade. In spring 2016, $96 \%$ of graduates had post-graduation plans including full-time jobs, part-time jobs, and graduate education. The department provides one-on-one advising to support preparing our students for their career after graduation.

Career Information

Materials Science \& Engineering mse.utk.edu
What is Materials Science and Engineering?
Materials Science and Engineering (MSE)

is at the forefront of modern technological advances through the development and improvement of materials for applications in all engineering fields. It is one of the fastest growing engineering disciplines and is expected energy, 3D printing, and next-generation electronics.
Materials engineers can be found working in all Materials engineers can be found working in all
technological fields, usually as part of a multidisciplinary team. For this reason, materials engineers receive a broad engineering education that includes design, mechanics, chemistry, physics, mathematics and electronics. The processing and testing of materials are core subjects in the MSE curriculum that stresses "hands-on" learning hodern processing and characterization techniques.
ar in mat Modern engineering materials are used in a broad
spectrum of products, including automobiles, aircraft nd spacecraft, jet and rocket engines, surgical implant devices, computers, cell phones, optical displays, textiles and sports equipment. The types of engineering materials nclude metals and alloys, polymers and plastics, ceramics, semiconductors, and composites
The educational objectives of the program for the degree of BS in Materials Science and Engineering are:

- to provide students with a knowledge of the
fundamentals of appropriate physical and chemical
sciences, mathematics and engineering sciences; and
to demonstrate the applications of these principles to solve engineering problems with emphases on materials processing, structure, properties and development of analytical and experimental skills. to provide students with experiences in design and materials selection such that they can design of economic, safety, environmental and social issues.
to develop professional skills in such areas as written to develop professional skills in such areas as wr
and oral communications, problem solving and working in diverse teams, that prepare graduates to practice materials engineering in contemporary and global environments
to provide students with a general education component that complements the technical content encourages the appreciation of cultural and social values, exhibits the impact of engineering solutions on society, and enhances personal development. The department has one of the lowest student-faculty ratios (about 6:1) in the college. This allows MSE students faculty, especially in laboratory courses.


## Career Opportunities

Graduates with a BS degree in materials science and engineering receive employment offers from a wide range of industries both in Tennessee and nationwide. MSE graduates can be found working in many different and process development, manufacturing, quality control, material selection, and failure analysis. Additionally, materials science graduates are well-prepared to continue their education through graduate school.


Career Information


Mechanical Engineering mabe.utk.edu
What is Mechanical Engineering? Mechanical engineering is the application
of the laws of solid and fluid mechanics


The discipline of a rigorous technical program along with education in the humanities and social sciences provides a good foundation for a rich and rewarding career in a dynamic marketplace.
The objectives of the mechanical engineering degree program are:

- Graduates will meet or exceed the expectation of employers of mechanical engineers, such as industry, government, acade
governmental organizations.
Graduates will continue professional development by or by obtaining professional registration or certification, post-graduate credits, and/or advanced degrees.


## Career Opportunities

Because of the broad-based education received in mechanical engineering, mechanical engineers play a vital role in a wide variety of industries (e.g., aerospace petroleum, textile, manufacturing); federal agencies (e.g NASA, DOE, DOD, FAA); and consulting firms and nationa laboratories (e.g., ORNL, Sandia). In these different sectors, mechanical engineers are involved in analysis and design of systems and products; manufacturing, automation and control of production and processes, research. Mechanical engineers are also found at every level of management
Mechanical engineers have been and will continue to be in great demand in all of the areas listed above.

Career Information


Nuclear Engineering

## e.utk.edu

What is Nuclear Engineering?
Nuclear engineering is the engineering discipline that focuses on the application
of sub-atomic processes for the benefit of mankind and our environment. Radiological engineering is a special concentration within nuclear engineering that deals with the design and safe utilization of radiation in ndustry and medicine. Some examples of nuclear and radiological engineering are listed below:

- Production of electric power with essentially no air pollution
Processes for the diagnosis and treatment of diseases such as cance
Activation analysis for identifying materials including environmental pollutants
Radiography inspection of welds in bridges and boilers
Food preservation and sterilization of medical supplies - Radioisotope gauges for use in manufacturing processes Nuclear measurement techniques for oil well logging and airport security
Radioactive tracer elements for in medical res
Generation of radioisotope power for deep space exploration
The educational objectives for the department are to provide students with fundamental knowledge in mathematics, computer science, the basic sciences and the engineering sciences that are necessary to solve complex problems in nuclear and radiological engineering
provide students with a real-world design and and radiological engineering that includes environme
provide students with appropriate skills in oral and written communication, teamwork, laboratory work, problem solving, and the use of modern engineering tools that will prepare them to work productively in contemporary and global environment;
provide students with a diverse general education in the humanities, ethics, and social sciences to understand and appreciate the importance of each in society and in personal develo ment; and
ran foster a genuine desire for life-long learning


## Career Opportunities

Nuclear engineering is a very broad and diverse engineering discipline, spanning from materials science and radiochemistry to nuclear security, space propulsio and power systems. Nuclear engineering graduates find utility industry (ea Southern Nuclear Company TVA Duke Energy, Entergy), private industry (e.g., Genera Electric, Westinghouse, Honeywell, Emerson), and governmental laboratories (e.g., DOE's Oak Ridge Nationa Laboratory and NASA's Johnson Space Flight Center). Nuclear engineering graduates also work as health physicists and radiation safety officers at hospitals and other health-related facilities. The current job market for nuclear engineers is strong and divers


## 1 <br> Engineering Majors



Engineering Majors Biosystems - Pre-professional

| Pre-Professional Concentration |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Fall } \\ & 16 \text { hours } \end{aligned}$ | Math 141 or 147 (4) FA,SP, SU Prereq- Math ACT 28 or Math SAT 660 | EF 151 or 157 (4) FA, SP Crea- Math 132141147 o o higher and EF F 105 or CS 1010 or CS 102 | EF 105 (1) FA, SP <br> Coreq- EF 151 or 157 | $\begin{aligned} & \begin{array}{l} \text { Chem } 120 \text { or } 128(4) \text { FA, SPPSU } \\ \text { Preerea-Manh } 199 \text { recom mended } \\ \text { bacckground in Mah } 131 \end{array} \end{aligned}$ | English 101/118 or 198 or 131 (3) FA, SP, SU 101 Regular; 118 Honors; 198 Chancellor Honors Only; 131 English as Second Language |  |
| $\begin{aligned} & \text { Spring } \\ & 17 \text { hours } \end{aligned}$ | Math 142 or 148 (4) FA, SP, SU Prereq- Math 132 or 141 or 147 | $\begin{aligned} & \text { EF } 152 \text { or } 158 \text { (4) FA, SPP SU } \\ & \text { Preee-EFF } 151157 \text { with Co higher } \\ & \text { Coreq- Math } 142 \text { or } 148 \end{aligned}$ | $\begin{aligned} & \text { ME } 202(2) \text { FA, SP, SU } \\ & \text { Coreq-EF } 152 \text { or } 158 \text { and } \\ & \text { Math } 142 \text { or } 148 \end{aligned}$ | Chem 130 or 138 (4) FA, SP, SU Prereq- Chem 122 \& 123 or 128 |  | BSE 104 (1) SP <br> Coreq- EF 151/158 |
| Fall <br> 17 hours | Math 241 or 247 (4) FA, SP, SU Prereq- Math 142 or 148 | ME 231 (3) FA, SP, SU Prereq- EF 152 or 158 and ME 202 with grades of $C$ or better | $\left\lvert\, \begin{aligned} & \text { ME } 331 \text { (3) FA, SP SU } \\ & \text { Coreq- Math } 241 \text { or } 247\end{aligned}\right.$ | BSE 201 (1) FA | BSE 221 (3) FA Prereq- Chem 120 or 128 Coreq- EF 152 or 158 | BSE 231 (3) FA Prereq- Chem 120 or 128 and Math 141 or 147 |
| Spring <br> 16 hours | Math 231 or 237 (3) FA, SP, SU Preere- Math 142 or 148 | $\begin{array}{\|l\|l} \begin{array}{l} \text { Biology } 160 \text { or } 168 \text { (3) FA, SP, SU } \\ \text { Corear- Chemisty } 120 \text { or } 128 \end{array} \end{array}$ | Chem 260 or 268 (3) FA, SP, SU formerly Chem 350/358 <br> Prereq- Chem 130 or 138 | Chem 269 (1) FA, SP, SU <br> Prereq- Chem 130 or 138 <br> Coreq- Chem 260 or 268 | $\begin{aligned} & \text { ME } 321 \text { (3) FA, SP SU } \\ & \text { Prereq- ME } 202 \text { with } \text { Cor better } \\ & \text { and Math } 1421148 \text { with C better } \end{aligned}$ | BSE 321 (3) SP Prereq- BSE 221 |
| Fall <br> 17 hours | Philosophy 244 (3) FA, SP Arts \& Humanities | $\begin{aligned} & \text { AE } 341 \text { or } 347 \text { ( } 3 \text { F FA,SPSU } \\ & \text { Prereq- ME } 231 \text { with Cor better } \\ & \text { and Math } 241 \text { or } 247 \end{aligned}$ | ECE 301 (3) FA, SP, M <br> Prereq- Math 231 with C or better |  | English 360 (3) (WC) FA, SP <br> Prereq- English 102 or 118 or <br> 132 or 290 or 298 <br> Minimum level- junior | Math 200 (2) FA, SP |
| Spring <br> 14 hours | BSE 411 or 417 (3) SP Prereq- ME 231 and 321 with grades of C or better | BSE 431 or 437 (3) SP <br> Prereq- BSE 321 with grade of <br> Cor better | BSE 451 or 457 (4) SP Prereq- ECE 301 with grade of C or better | $\begin{aligned} & \text { Chem } 360 \text { or } 368(3) \text { FA, SP, SU } \\ & \text { Prereq- Chem } 260 \text { or } 268 \\ & \text { formerly Chem } 350 / 358 \end{aligned}$ | Chem 359 (1) FA, SP, SU Prereq- Chem 269 Coreq- Chem 360 or 368 |  |
| Fall 15 hours | Econ 201 or 207 (4) FA, SP, SU or Arec 201 (4) SP Social Science | Gen Ed (3) FA, SP, SU Cultures \& Civiizations | BSE 400 (2) FA Prereq- Three of BSE 411/417 431/437, 451/457 Coreq- BSE 404 and 444 | BSE 444 (3) FA Prerea- Three of BSE 411/417, 416/418 or CE 495, 498,431,451 Coreq- BSE 400 and 404 | \|BSE 404 (3) (0C) FA <br> Preeq- Three of SSE 4114177, 4164148, or CE 495, 488, 431/437, 451/457 Coreq- - SEE 400 and 444 |  |
| $\begin{aligned} & \text { Spring } \\ & 15 \text { hours } \end{aligned}$ | Gen Ed (3) FA, SP, SU Social Science | Gen Ed (3) FA, SP, SU Ats \& Humanities | BSE 402 (6) SP Prereq- BSE $400 \& 404 \& 444$ | $\begin{aligned} & \text { Gen Ed (3) FA,SP, SU } \\ & \text { Cultures \& Civilizations } \end{aligned}$ |  |  |

## Encineering Majors


Engineering Majors


Fng:neertng Majors computer Engineering

Whand
Hen
he department requires at least a C in every computer engineering, computer science, electrical engineering, and mathematics course used for the undergrauauate der


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Tickle College of Engineering

Student Guidebook 2020-2021• catalog.utk.edu



\#*Engineering Science Electives chosen from ECE 301 ; MSE 201 or 207 ; ME 202 AND (EF 130 or EF 230); ME 331; ME 231.


Engineering Majors Radiological concentration


## Undergraduate Minors

Herbert College of Agriculture

- Agricultural leadership
- Animal science
- Biosystems engineering technology
- Entomology and plant pathology
- Environmental and soil sciences
- Food science
- Forestry
- Honors food, agricultural, natural resource, and human sciences
International agriculture and natural resources
- Natural resource and environmental economics
- Watershed
-Wildlife and fisheries science
College of Architecture and Design
- Architectural studies
- Design studies
- Interior architecture studies

Haslam College of Business

- Business administration
- Entrepreneurship

College of Communication and Information

- Communication studies
- Information sciences

Journalism \& electronic media
College of Education, Health, and Human Sciences

- American Sign Language
- Art education
- Elementary education
- English as a second language education
- Leadership studies
- Leadership studies (honors)
- Mathematics education (grades 6-8)
- Nutrition
- Restaurant and food service management
- Retail and consumer sciences
- Retail technology
- Science education (grades 6-8) - Secondary education
- Tourism and hospitality management
- World language education

Tickle College of Engineering

- Aerospace engineering
- Computer science (not open to computer engineering)
- Concepts of cybersecurity (not for EECS majors)
- Cybersecruity (for EECS majors)
- Datacenter technology \& management (for EECS, IE, and ME majors)
- Engineering entrepreneurship
- Honors engineering leadership
- Materials science \& engineering

Mechanical engineering

- Nuclear decomm
- Reliability \& maintainability engineering


## College of Arts and Sciences

- Africana studies
- Anthropology
- Art history
- Art studio
- Asian studies
- Astronomy
- Biological sciences
- Chemistry
- Cinema studies
- Classical archaeology
- Classical civilization
- Classics (Greek or Latin)
- Climate Change
- English
- English technical communication
- Environmental studies
- French and Francoph
- Geography (Information Science
- Geology
- Global studies
- History
- Italian
- Judaic studies
- Latin American and Caribbean studies
- Linguistics
- Mathematics (honors)
- Medieval and Renaissance studies
- Middle East studies
- Music (applied, composition, culture \& theory)
- Neuroscience
- Nhilososhy
- Physics
- Physics - five-year BS/MS
- Political science
- Portuguese
- Religious studies
- Religious studies-religion and nonprofit leadership
- Russian studies
- Russian literature in translation
- Spanish (Hispanic studies)
- Sociology (environmental issues and globalization)
- Sustainability
- Theatre
- VolsTeach math
- Women, gender, and sexuality


## Howard H. Baker Jr. Center for Public Policy

 - Public policy analytics
## Pre-Health Information

All Pre-Health Advising takes place in the Arts \& Sciences Advising Center, 313 Ayres Hall, 865-974-4481. Adviso are avaliable in Ats and sciences Advising Services to When a student declares a major, he/she should obtain an advisor in the department of the declared major, but should continue to consult with the pre-medical advisors in Arts and Sciences Advising Services about the premedical program
Students who are currently enrolled in another college, e., Engineering or Architecture, are required to take the following minimum courses for most medical schools:

- English 101-102
- Biology 150-160 or Honors 158-168, and Lab 159
- Chemistry 120-130 or Honors 128-138
- Chemistry 260-269 and 360-359 or Honors 268-269
and 368-359
Physics 221-222 (Physics 231-232 for engineering students only)
he following courses are not required by medical schools, but their content is included on MCAT.
- Biology 240
- Biochemistry and Cellular and Molecular Biology 401 - Psychology 110, Sociology 120

Note that many of these courses have prerequisites and that the courses listed above constitute the minimal requirements for most medical schools. Pre-medical students are strongly urged to consult with a health professions advisor on
regular basis in 313 Ayres Hall. Students will want to
hools of interest for specific

## equirements beyond what is listed here-

## Selection Criteria at UT Health Science Center

Successful completion of the pre-medical requirement with grades of C or better earned in each course.
2. Letters of evaluation from three faculty members who have a good awareness of the student's ability.
3. Experience in/exposure to the health field.
4. Total academic performance, with attention given to general commitment to scholarship.
5. Satisfactory scores on the Medical College Admission Test (MCAT).
6. Personal interview with two members of the Committee on Admissions. (Competitively qualified applicants will be invited for interviews after their applications have been reviewed by the committee.)
7. Other criteria such as extracurricular activities; motivation and goals; research experience; the morals, character, and integrity of the individual; and any disciplinary or civil records that a person may have accrued
Please note that high GPA and MCAT scores are not by themselves a sufficient basis for entrance into medical school. The Committee on Admissions takes a close look the total experience of the applicant in making its fina
decisions. In addition, the Committee on Admissions reserves the right to require additional course work from any apple course work must be

## Pre-Professional File

During the junior year, pre-med students should attend a pre-professional file group meeting to learn about setting up the pre-professional file. Group meetings are scheduled Hall. In the meeting, students are given information on pre-professional evaluations, AMCAS, and other aspects of the medical school application process. The most important aspect of the file is the letters of evaluation from faculty members who are familiar with the student's aptitude, ability, and personal characteristics. Two of the in science-based disciplines. Students should make every effort to become well acquainted with their professors prior to requesting the evaluations. Once the file has been started, students should maintain contact with the health professions assistant to periodically check on the file and to provide updated contact information. For the purposes of AMCAS, the file prepared in Arts $\alpha$ Sciences is considered chair of the health professions, Shanna Pendergrast.

## Alpha Epsilon Delta

Alpha Epsilon Delta (AED) is a pre-health honor society that seeks to provide information and opportunities for tennessee Beta of Tennessee. AFD activities include information sessions on preparing to apply to professional schools, local speakers from the medical community, trips to Tennessee medical schools and health centers, and service activities The schedule of meetings is available at aedutk.wixsite.com/aed-utk.
Requirements for membership include three terms of college (at least one at UTK), a cumulative GPA of 3.2, a science GPA of 3.2, and participation in AED sponsored
events and meetings. Students interested in joining AED should apply for membership at the beginning of fall term Applications are available in Arts and Sciences Advising Services, 313 Ayres Hall, and at the organizational Web site.
Any pre-health student, regardless of membership, may participate in the programs sponsored by AED. Prehealth students wishing to receive notification of pre health activities and AED events should send an e-mail to asadvising@utk.edu to request to be added to the prehealth distribution list.

## Distribution List

Pre-health students should contact Arts \& Sciences Advising Services at asadvising@utk.edu at their earliest convenience to request to be added to the pre-health distribution list. Students on the distribution list are routinely updated about pre-health programming, announcements, and opportunities relevant to the health professions.

## Cook Grand Challenge Honors Program

Cook Grand Challenge Honors Program

National Scholarships and Fellowships
The Office of National Scholarships and Fellowships ONSF) exists to both inform and mentor students who wish to apply for nationally competitive scholarships and ellowships like the Truman, Rhodes, Marshall or Fulbright. We also assist outstanding undergraduates who wish to Scholarships.
ONSF will work with students to determine what fellowship would best fit their interests. Once student have decided to apply, we will assist them with the administered by our office, students need to begin the application process over a year before the scholarship period begins.
or more about each of the scholarships handled by he ONSF, visit at 317 Greve Hall or call 865-974-3518 to


## ORNL Summer Research and Internship

There exist numerous opportunities for undergraduates to supplement their academic learning with real world experience. The Chancellor's Office and Oak Ridge National Laboratory (ORNL) each sponsor summer internship programs designed to promote research and Deartment of Energy (DOE) also sponsors summer and semester length opportunities.
The role of the faculty mentor is paramount in these programs as they will provide guidance in the choice of a project and in the practice of professional approaches and methods. Projects proposed may be a student's undergraduate thesis, a part of the faculty mentor's esearch program, another research project or an ongoing project begun previously. The key is that the a classroom setting tting
For more information visit the website at www.ornl.gov. For more honors and research information, contact Kevin Kit
Engineering Honors Director
322 Perkins Hal
365-974-9784
kkit@utk.edu
Affice of Undergraduate Research
Marisa Moazen
09 Melrose Hal
865-974-8560
ugresearch.utk.edu

Cook Grand Challenge Honors Program Admission
Admission as a first year student to the Cook Grand Challenge Honors Program and Honors Concentration dean's office to students meeting rigorous academic standards in their high school coursework.
Admission as a transfer student or after completing significant coursework at the University of Tennessee is by direct application at honors.tickle.utk.edu/admission.

## Requirements

Coursework
-Four 100- or 200-level honors courses (14 hours minimum, at least two courses must be from Engineering Fundamentals, Physics, Math, Chemistry, or Biology
Statistics or MSE 207)

- Two upper-division honors courses ( 300 or 400 level) in your major ( 6 hours minimum)

GPA
Maintain a 3.4 cumulative GPA. (Some programs also require an average 3.4 GPA in all courses in your major Refer to the Undergraduate Catalog for details.)

Breadth
An honors student is expected to broaden their undergraduate experience beyond a prescribed curriculum. centration students must satisfy two of the five National Academy of Engineering (NAE) Grand Challenge Scholars requirements listed below. One of these must be at an
Additional Opportunity for Engineering Honors Students
The Grand Challenge Scholars Program is for students who wish to build a broad level of experience in all the NAE areas into their undergraduate program. It requires one extensive experience, two intermediate experiences, and two must be related to one of the 14 NAE Grand Challenges.

Breadth Requirement Experience Levels for Honors Concentration

|  | Extensive | Intermediate | Introductory |
| :---: | :---: | :---: | :---: |
| Research | Completion of a three-semester-long undergraduate research experience. Must result in a mentor-approved paper or poster which is presented at EUReCA, UT Honors Symposium, or other venue approved by the Honors director. | Completion of a two-semester-long undergraduate research experience. Must result in a mentor-approved paper or poster which is presented at EUReCA, UT Honors Symposium, or other venue approved by the Honors director. | Completion of a one-semester-long undergraduate research experience. Must result in a mentor-approved paper or poster which is presented at EUReCA, UT Honors Symposium, or other venue approved by the Honors director. |
| Interdisciplinary Work | Minimum of 9 hours from approved list (see Honors website) | Minimum of 6 hours from approved list (see Honors website) | Minimum of 3 hours from approved list (see Honors website) |
| Entrepreneurship | Minimum of 9 hours from Minor in Entrepreneurship (see Honors website) | Minimum of 6 hours from Minor in Entrepreneurship (see Honors website) | Minimum of 3 hours from Minor in Entrepreneurship (see Honors website) |
| Global Experience | Full semester abroad (study program of internship) or 6 hours coursework abroad and a foreign language minor | 6 hours coursework abroad or 3 hours coursework and foreign language minor | One course abroad or a TCE non-credit global experience |
| Service Learning | An extensive experience in service learning would normally be designed by the student and approved by the Honors director to reflect individual student interests. | Minimum of 6 hours from TCE design course associated with the Smart Cities Initiative, other courses carrying UT service designation or at least 6 months providing technical service for a nonprofit organization (See Honors website) | Minimum of 3 hours from TCE design course associated with the Smart Cities Initiative, other courses carrying UT service designation or at least 3 months providing technical service for a nonprofit organization (See Honors website) |



## Heath Integrated Business \& Engineering Program

Heath Integrated Business \& Engineering Program Are you interested in learning how engineering interacts with business functions in industry? Do you want to be part of The Heath Integrated Business \& Engineering Program (Heath IBEP) combines the knowledge and reputations of wo
interested Tickle students apply in the spring of the freshman year to start Heath IBEP with Haslam students in the fall of the sophomore year. These students take business, entrepreneurship, and special engineering courses together and learn how to be successful in each other's environment.

What you will learn:
Effective problem solving skills for a variety of systems, emphasizing the impact on key organizational metrics communication skills that will allow these new effective solutions
Big picture perspective generated from collaborative experiences, one-on-one mentoring opportunities with executives, and industry exposure

Program highlights
Tickle students participating in IBEP will

- Receive a Heath IBEP program scholarship package Attend distinguished alumni and leadership seminars Combine in-depth strategy and decision making processes - Tour manufacturing facilities
- Apply learning with joint business and engineering real world and CAPSTONE projects


## Admissions criteria:

An admissions committee, made up of members from both the Haslam College of Business and the Tickle College of Engineering, will evaluate students during the spring of their first-year.

Admissions considerations:
Info sessions will be held during the fall and spring semesters

- No special math or science coursework is required


## Learn more:

integrate.utk.edu integrate@utk.edu


## International Baccalaureate

International Baccalaureate (IB) Exam Credit

| Subject | IB Score | Credit Given |
| :---: | :---: | :---: |
| Biology (higher level) | 5+ | Biology 101-102 |
| Business \& Management (standard or higher) | 5+ | Management 201 |
| Chemistry (higher level) | 5+ | Chemistry 120-130 |
| Computer Science (higher level) | 7 | Computer Science 102 |
| Economics (standard and higher level) | 5+ | Economics 211, 213 |
| English (A1 exam) | 5 | English 101 |
| English (A1 exam) | 6+ | English 101-102 |
| English (A2 and B exam) | N/A | No credit |
| Environmental Systems and Societies (standard level) | 4+ | Geology 202 |
| Film (higher level) | 5+ | Cinema Studies LD (3 credit hours) |
| French (standard level) | $5+$ | French 212 |
| French (higher level) | 5+ | French 212, 333 |
| Geography (standard and higher level) | $4+$ | Geography 121 |
| German (standard level) | 4 | German 211-212 |
| German (higher level) | 4+ | German 211-212 or German 311-312 or German 321-322 |
| History (higher level) | $4+$ | History LD-LD (3 credit hours) |
| Informational Technology in a Global Soicety | $4+$ | Geography 111 |
| Latin (standard level) | $5+$ | Latin 251-252 |
| Latin (higher level) | $4+$ | Latin 251-252 |
| Math (higher level) | 4+ | Mathematics 141-142 <br> plus 4 hours LD Math Credit (3 credit hours) |
| Music (solo performance, music creating music group performance) | $6+$ | Musicology 110 |
| Philosophy (higher level) | $4+$ | Philosophy 101 |
| Physics (higher level 1) | 4+ | Physics 221 |
| Physics (higher level 2) | $4+$ | Physics 222 |
| Physics DP (higher level) | $4+$ | Physics 221-222 |
| Psychology (standard or higher level) | 4+ | Psychology 110 |
| Social and Cultural Anthropology | $4+$ | Anthropology 130 |
| Spanish (higher level) | $4+$ | Spanish 211-212 |
| Sports, Exercise \& Health Science (higher level) | 5+ | Kinesiology LD (3 credit hours) |
| Theatre (higher level) | $4+$ | Theatre 100 and Theatre LD (3 credit hours) |
| Visual Arts (higher level) | 5+ | Art LD ( 3 credit hours) |
| World Religions (standard level) | $4+$ | Religious Studies LD (3 credit hours) |

## Placement Exams/Math

Freshman Math Placement
Based on ACT Math or SAT Math Placement Scores

| Math ACT | Math SAT | Math Course |
| :--- | :--- | :--- |
| 25 to 27 | 590 to 650 | Math 131 Calculus 1A infused with Pre Calculus |
| 28 to 31 | 660 to 710 | Math 141 Calculus 1 |
| 32 or higher | 720 or higher | Math 147 Honors Calculus I |

Adjustments to Placement

1. AP/IB/CLEP/Statewide Dual Credit Challenge Exam/Dual Enrollment credits in Math trump the ACT Math/SAT Math placements
2. Take the online placement test through the UT Math Department website (www.math.utk.edu). There are two tests, Engineering students take the Level 4 (Math 141) test. The test may be repeated three times, Use the online remediation system to review and then (re)take the placement test. The system is adaptive to the math elements needed for success.
Engineering Math courses
Engineering students must be taking either Math 132 or Math 141 (or higher) to be eligible for Engineering Fundamentals 151 or 157

Math Courses based on ACT Math 25 to 27 or Math SAT 590 to 650:

| Math 131 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Calculus 1A |
| Infused with |
| pre-calculus |
| 3 credit hours | | Math 132 |
| :---: |
| Calculus 1B |
| infused with |
| pre-calculus |
| 3 credit hours |$\quad$| Math 142/148 |
| :---: |
| Cal II/Honors |
| 4 credit hours | | Math 241/247 |
| :---: |
| Cal III/Honors |
| 4 credit hours | | Math 231/237 |
| :---: |
| Diff. Eq./Honors |
| 3 credit hours | | Math 251/257 |
| :---: |
| Matrix Algebra 1/ |
| Honors |
| 3 credit hours |


| Math 141/147 | Math 142/148 | Math 241/247 | Math 231/237 | Math 251/257 |
| :---: | :---: | :---: | :---: | :---: |
| Cal I/Honors | Cal II/Honors | Cal III/Honors | Diff. Eq./Honors | Matrix/Honors |
| 4 credit hours | 4 credit hours | 4 credit hours | 3 credit hours | 3 credit hours |



6 Tickle College of Engineering

## Placement Exams/English \& Foreign Language

## First-Year Composition Placement

Regular Sequence: English 101 (Fall) + English 102 (Spring). Students may not take English 102 before passing English 101
2. Intensive Sequence: English 101 with English 103, Writing Workshop I, [1-credit elective] (Fall) + English 102 with English 104, Writing Workshop II, [1-credit elective] (Spring)
3. Honors Sequence: English 118 (Fall) + 200-level English course or English 355 (Spring). Students placed into 118 by
ACT or SAT scores-see below. Not for Chancellor's Honors Program students. (Note: students who get a passing grade of B- or below in English 118 must take English 102 in Spring).
4. Chancellor's Honors Sequence: English 198 (Fall) + English 298 (Spring). Limited to students in the Chancellor's Honors Program.
5. AP Credit Sequence*: Credit for 101 through AP score + Choice of either English 290 or English 102 (Fall or Spring). *AP Credit: A score of 4 or 5 on either the College Board Advanced Placement Test in Literature and Composition or the Language and Composition exam gives credit for English 101 only. Students must take English 290 or English 102 to complete the First-Year Composition requirement
Note: CLEP credit is not accepted for the First-Year Composition requirement.
International Students/Non-Native English Speakers

| ACT Scores | SAT Scores | Fall Placement |
| :--- | :--- | :--- |
|  <br> 18 Composite | Below 450 Verbal \& 850 Composite | English 101 and English 103 |
| English 19-28 \& Composite 19-28 | Verbal 450-680 \& Composite 850-1280 | English 101 (Strongly recommend English 103 <br> for students who want or need addditional help) |
|  <br> 29 <br> Composite | Above 680 Verbal \& 1280 Composite | English 118 (Offered only in Fall) |

## OREIGN LANGUAGE -

## Not Required in Engineering

Students can take a foreign language assessment as part of the Pre-Orientation steps. The College of Engineering does not require the study of
foreign language to earn a diploma. However,
intermediate ( 200 level) foreign language
sequence satisfies the University's General Education area of Cultures and Civilizations

Students interested in earning intermediate foreign anguage credits in Chinese, French, German, Italian,
Russian, Spanish, or others, contact:
anguage Resource Center
Room 1-17 Alumni Memorial Building
865-974-0797
lrc@utk.edu
Students interested in earning intermediate foreign anguage credits in Latin (Classics) contact:
Department of Classics
101 McClung Tower
classics@utk.edu

## Placement Exam

All students planning to enroll in a French, German, Latin, or Spanish course who have completed at least two years of this language in high school and have not yet taken a
college course in the language must take a UT placement exam before enrolling. This rule does not apply to students who receive AP credit in the language. The score on the exam will determine placement in the appropriate course. Ordinarily, a student will not be allowed to enroll in a course at a level above that determined by his/her

## Transition Course

Some students who have had two years of the same language in high school and receive a placement score level language courses may be placed in a 150 language course. These courses are designed to prepare students for enrollment in intermediate-level foreign language courses and count as elective credit. Students who receive credit 100 -level course of the same language.

## General Education Requirements



## General Education Requirements

General Education Requirements in Engineering

## Cultures and Civilizations

 (2 courses)(1) taking two courses from the following
(t)
(2) takking a two-course sequence in a foreign languas
intermediate level
or
(3) taking a six-hour intensive (3) taking a six-hour intensive
foreign language course at the foreign language cour
intermediate level.
Approved Cultures and Civilizations (CC) ourses
Africana Studies 235: Introduction to African Studies 236: Introdution to African Studies

## Anthropology

20: Prehistoric Archaeology 127: Honors-Prehistoric Archaeol

## Classics

Civilization
Cultural Studies in Educatio 200: Survey of International Education

Entomology and Plant Pathology Chotale. Bean to Bar

Environmental and Soil Science -120: Soils and Civilizations - 220: Waters and Civilizations

- 227: Honors-Waters and Civilizations

Food Science
50: History and Culture of Food
Global Studies

- 250: Introduction to Global Studies

Haslam Scholars Program

- 368: Study Abroad: Edinburgh, Scotland

History
Civilization : Development of Western
Civilization
HIEU 242:
Civilization
HIEU 247:
Western Civilization
HIEU 248: Honors Development of
Western Civilization
HILA 255: Early Latin America and
HILA 256: Modern L
Caribbean Studies
HIST 261: History of World Cilatiz
HIST 262: HIstory of World Civivilization HIST 267: Honors History of
World Civilization
HIST 268: Honors History of World
Civilization Civilization

Latin America and Caribbean Studies

- 251: Early Latin American and

252: Modern Latin
Caribbean History
Medieval and Renaissance Studies 201: Medieval Civilization I

Modern Foreign Languages and Literatures
in International Literatures and Cultures
Plant Sciences

- 115: Plants That Changed the World 491: International Study: History and Culture of International Gardens and Landscapes
Religious Studies
Religious Studies
- 101: World Religions in History - 102: Comparison of World Religions Retail \& Consumer Sciences - 225: Fashion and Culture

Sociology

- 250: Introduction to Global Studies
University Honors
- 277: Special Topics in Cultures and - Civilizations 278: Special Topics in Cultures and Civilizations

Intermediate Foreign
Language Courses
American Sign Language

- 211 and 212: Intermediate American

Sign Language I and ॥
Arabic

- 221 and 222: Intermediate Arabic I and II

Asian Studies
ediate Persian I and
Chinese 231 and 232: Intermediate Chinese I and
Classics
Classics 251 and 252: Intermediate Latin I and II 251: Indermediate Greek: Grammar
261.
Review and Readings Review and Readings: Grammar
264: Intermediate Greek. Epic Poetry

French

- 211 and 212: Intermediate French I and II - 217 and 218: Honors Intermediate

German

- 211 and 212: Intermediate German I and Hebrew
Hebrew
- 241 and 242: Intermediate Modern
Hebrew I and II

Italian
251 and 252: Intermediate Japanese and II

Persian 261 and 262 : Intermediate Persian 1
Portuguese

- 211 and 212 : Intermediate Portuguese
Religious Studies
221 and 222: Intermediate Biblical
Russian
201 and 202: Intermediate Russian
Spanish
211 and 212: Intermediate Spanish I and 217 and 218: Honors Intermediate
Spanish land II

Intensive Intermediate Foreign Language Courses 6 credit hours)

French
erman
-German 223
Italian

- Italian 223
- Italian 223

Portuguese

- Portuguese 223
Spanish
For a complete listing of all approved courses, please reference the extensive list online in the Undergraduate Catalos


## General Education Requirements in Engineering

## *General Education Requirements by Major

See catalog.utk.edu for the University of Tennessee General Education Requirements

## Communication Through Writing:

 Aerospace - AE 449 Biomedical - BME 449 Biosystems - English 360 Chemical - CBE 415 Civil - CE 205Computer, Electrical - ECE 402 Computer, Electrical - ECE 402
Computer Science - CS 402 Computer Science - CS
Industrial - IE 350, 422 Industrial -lE 350, 42 Materials Science - MSE 304 or 405 Mechanical - ME 449
Nuclear - NE 401, 4O2, 427
Cultures and Civilizations: Students may satisfy Cultures and Civilizations in one of two ways: intermediate proficiency in a foreign language, demonstrated by credit for the 200-level sequence in the foreign language, OR two completed courses from the Cultures and Civilizations list from the catalog. The Tickle College of Engineering does NOT require of Engineering does language, but students foreign language, but students are welcome to use intermediate satisfy this requirement

## Communicating Orally <br> Aerospace - AE 210

Biomedical - Choose from list in catalog.
Biosystems - BSE 404 Chemical - CBE 488 or 490 Civil - CE 205
Computer, Electrical - ECE 402
Computer Science - CS 402
Industrial - IE 422
Materials Science - MSE 489 Mechanical - ME 210
Nuclear - NE 400


## Degree Audit Report System (DARS)

## What it is, what it does, and how to use it:

UT students have access to the Degree Audit Report System (DARS), which allows you to look at the credits you have on your academic history and see how they fit into the specific requirements of your major. While it defaults to your currently declared major, you can also use this system to look at any major or minor offered at UT to see how your courses would fit into those programs.
It is important for you to be able to run and interpret your DARS report because this system is the one the egistrar uses to check whether or not you have met all the specific requirements for your major in order to graduate. So, it is your responsibility to learn how to use the system. These pages will give you the basics on how to access the system and run your report.

## To access DARS:

Step 1
Log into my.utk.edu and then click on the DARS and uTrack link under the Academic Resources heading

## - Academic Resources

elf Sevice Banner
Search For Classes
Schedule Builder
Add / Drop Classes
My Grades
My Grades
DARS and UTra
Grades Firs
Enrollment Verification

## Step 3

Your declared degree program, along with any second maiors or minors you are also doing, will now appear on the list f audits you have requested. To run the report, you would just click on the button that says "Run Declared Programs"

By the way: If you wish to look at a different pro- $\qquad$
gram, then all you have to do is give the DARS sysre mat


## Step 2

Once in DARS, click on
the "Run Audit" box to
begin the process.


## DARS

Step 4
Once you open your DARS report, you should click on the printer friendly icon, so that the full report opens up and you can see all the requirements under each tab of the report.
Your Name

Request Audit

| ENGR: COMPUTER SCIENCE - HONORS |  |  |  |  | Request Audit |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Prepared on | 011262018 820.9 PM | Program Code | Bscs.cs.H | Catalog Year | Fall 2015 |
| Student 10 | 000416274 | Jobio | 2018012644094173 |  |  |
| Audit Ress | Course Hisory |  |  |  |  |
| ®open | ®Close All Sections | - |  | $\square \Theta$ Printer Friendly |  |

## Step 5

As you scroll through the report, you will notice that the tabs have different colors. Tabs that are GREEN mean that that degree requirement is completed. Tabs that are RED show which requirements you have not yet met for your degree, and the DARS report shows which courses are still required to meet that particular requirement for your degree. Tabs that are BLUE show course requirements that you are finishing during the current semester


Step 6
Finally, any course credits you have that do not fulfill requirements for your degree are listed at the bottom of the DARS report. Likewise, any course you withdrew from or did not pass is also listed at the bottom of the report.

> THE FOLLOWING CREDITS HAVE BEEN COUNTED IN THE TOTAL HOURS EARND. HERN USED TO MEET SPECIFIC COURSE REQUIREMENTS.
(ALSO INCLUDED ARE NO-CREDIT COURSES, SUCH AS THOSE WTH GRADES OFF, W, NC, WP, WF, TRANSERD

| FA15 | FYS 100 | 0.00 | s | THE VOLUNTEER CONNECTION |
| :---: | :---: | :---: | :---: | :---: |
| NF15 | HIST221 | 3.00 | s | HISTORY/UNITED STATES EQUIVALENT TO: HIUS221 |
| NF15 | HIST222 | 3.00 | s | HISTORY/UNITED STATES EQUIVALENT TO: HUS222 |
| FA15 | UNHO101 | 1.00 | A | MATH EFFECT: VIDEO GAMES |
| SP15 | cosc102 | 0.00 | TF | INTRODUCTIONCOMPUTER SCIENCE |
| SP17 | MATH341 | 0.00 | w | ANALYSISI |

f you still have questions, your academic advisor will also be able to help you learn how to interpret your DARS report so that you can understand what degree requirements you have completed and which ones you still need to finish. If you have further questions, contact ENGINEERING ADVISING SERVICES in 316A Perkins Hall, 865-974-4408

## UTrack Information

## Universal Tracking (UTracK)

Universal Tracking (UTracK) is an academic monitoring system designed to help students stay on track for timely graduation.

## Policy

1. Students must declare a major or exploratory track at the time they are admitted to the university. Some majors have a competitive admissions process
2. All students must transition out of exploratory tracks into a major track no later than the end of the fourth tracking semester at UT
3. Students who are off track must develop an advisor-approved plan for getting back on track before they will be allowed to register for future tracking semesters.
4. Students who are off track for two consecutive semesters will be placed on hold and required to select a new major that is better aligned with their abilities.

## Definitions

## Exploratory Tracks

College-Level Exploratory—Students who are deciding among one or more majors that are all offered by the same college follow an exploratory track for that college (e.g., Arts and Sciences Exploratory, Business Exploratory, etc.)

- University Exploratory-Students who have no clear idea of which major to pursue and/or those clear idea of which major to pursue and/or tho are not in a single college follow the University Exploratory track.



## MyUTK

## MyUTK

## A QUICK REFERENCE FOR USING THE ONLINE REGISTRATION

To begin registration, you need to log on to MyUTK (my.utk.edu), and then log in with your username, which is your NETID (not ID \#),
and your NETID password.

TO SEARCH FOR CLASSES and/or CREATE A SCHEDULE PLAN

STEP 1-Log into my.utk.edu and then
click on the Search For Classes link click on the Search For Classes link under the $\mathbf{A c a d e m l c}$ Resources heading
$\square$ Academic Resources
Self Service Banner Search For Classes Schedule Builder Add / Drop Classes - NEW My Grades
ARS and uTrack Grades

STEP 3-Each time you look for courses or attempt to register, you must make sure you are looking for classes in the correct semester with

| Student - Registration - Select a Term |  |
| :---: | :---: |
| Select a Term |  |
| Temns Open for Planning 0 |  |
| Fall Sem 2018 | $\checkmark$ |
| Coninue |  |

If you wish to create a tentative plan for the whole semester, you can use the Plan Ahead


STEP 2-Once in the registration system, click on the Browse Classe link on the right side of the menu to begin the process of searching
for classes


STEP 4-Once you are in the correct semester, you can look up the classes by the department that eaches them. So, for example, if you want to take EF 51, you would look up Engineering Fundamentals as


Under the Plan Ahead feature, you can create up to 5 blans per semester. You can give these unique names so that you identify them later when you register.


## TO REGISTER FOR CLASSES

STEP 1-Log into the registration system and then click on the Register for Classes link to sign up for courses. It is important that you look up courses prior to registration because the Banner System enforces ore- and co-requisite requirements (see Search for classes). You must register for all corequislte courses
sImultaneously. You can either look the courses up individually, but we would encourage you to use the planning features in the search to make sure you have all the appropriate courses scheduled for your semester, especially if they have pre- and corequisite requirements.

STEP 2-Once you have created a course plan, you can click on the tab that says
Plans and add those classes to your schedule for the semester.


Once you have chosen the courses to be on your plan, you can submit those to you
schedule for the semester (this dialog box will be in the bottom right of your screen).


After successful submission of your courses, the registration system will show you that you are registered in your courses (lower right dialog box). You can also see how the courses work together during the week with the calendar box on the lower left of the screen.


Keep in mind that any course you look for in the registration
system has further information about it that you can find by
clicking on the underlined title hyperlink of the class. Another
dialog box will appear and allow you to find information on the
dialog box will appear and allow you to find information on the
rofessor, the text book, and any pre- or co-requisite
information on the class.



## Academic Calendar

Fall Semester 2020
Classes Begin . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Wednesday, August 19
Labor Day . . . . . Monday, September 7
1st Session Ends Wednesday, October 7
Fall Break. .
$\qquad$
2nd Session Begins . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Monday, October 12
No Class Day. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Wednesday November 25
Thanksgiving . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Thursday-Friday, November 26-27
Classes End. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Wednesday, December 2
Study Day . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Thursday, December 3
Exams. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Friday-Thursday, December 4, 7, 8, 9, 10
Graduate Hooding . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Thursday, December 10
Commencement . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .Friday, December 11
Official Graduation Date. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Saturday, December 12

## Spring Semester 2021

Classes Begin . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Wednesday, January 13
MLK Holiday . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
1st Session Ends. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Wednesday, March 3

2nd Session Begins . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Thursday, March 4
Spring Break. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Monday-Friday, March 15-19
No Class Day. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Thursday, April 1
Spring Recess. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Friday, April 2
Classes End. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .Friday, April 30
Study Day ..................................................................................................... Manday May
Tuesday-Monday May
Exams.
. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . The Th
Graduate Hooding . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Thursday, May 13
College Commencement Ceremonies . . . . . . . . . . . . . . . . . . . . Thursday-Saturday, May 13-15
Official Graduation Date. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Saturday, May 15

## Summer Term 2021

Please refer to the Summer 2021 academic calendar on the Office of the University
Registrar website: registrar.utk.edu/calendar/academic-calendars

There is no commencement ceremony in the summer This date is the official graduation date that will appear on the There is no commencement ceremony in the summer. This date is the official graduation date that will appear on the
transcript of graduating students. The Academic Calendar is available on the Web site of the Office of the University Registrar: registrar.utk.edu/calendar/academic calendars.

## Key Term Dates

## Engineering Campus Map

## Fall 2020 - Undergraduate

Priority Registration Begins
Fall 2020 Graduation Application Deadline / Admission to Candidacy Deadline for Graduate Students . .August 6, 2020
Classes Begin. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . August 19, 2020 Last Day to Add, Change Grading Options or Drop without a "W" - 1st Session Courses . . . August TBD, 2020 Last Day to Final Register, Add, Change Grading Options or Drop without a "W"- Full Session Courses . . August TBD, 2020 Labor Day (No Classes). September 7, 2020
Last Day to Adjust Hours for Financial Aid Awarding .............................................. . . September TBD, 2020
ast "W" - 1st Sessid Courdin . September TBD, 2020

## First Session Classes End

 .September TBD, 2020Second Session Clases .................................................................................... . . October 8-9, 2020
ast Day to Add, Change Grading Options or Drop without "W" - 2nd Session Courses ..... October TBD, 2020 Last Day to Drop with a "W" - Full Term Courses . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . November TBD, 2020 Last Day to Drop with "W" - 2nd Session Courses ..... . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . November TBD, 2020 November 25, 2020
No Class Day ..........................
November 25, 2020
Total Withdrawal from the University Deadline . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2020
Classes End (Full and Second Session) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .December 2, 2020
Study Day ............................................................................................. 2020
Exam Period. ...................................................................................... . . December 4, 7, 8, 9, 10, 2020
Commencement (Thompson Boling Assembly Center \& Arena) . . . . . . . . . . . . . . . . . . . . . . . . . . . December 11, 2020
Official Graduation Date on Transcript . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . December 12, 2020

## Financial Calendar for Fall Term 2020

Statement information available on MYUTK.UTK.EDU.
Juy TBD, 2020 Priority Registration Payment/Deadline . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . August TBD, 2020 Late Registration/Late Fees Begin . August TBD, 2020 Late Registration Payment/Deadline August TBD, 2020
*PAYMENT MUST BE RECEIVED BY THESE DEADLINES WHETHER OR NOT YOU HAVE RECEIVED a VolXpress STATEMENT. You may view your account on MyUTK


Engineering Campus Office Locations by Building


Tickle College of Engineering Ambassadors

## TENGINEERING ADVISING

316A, Perkins Hall
Phone: 865-974-4008
Email: engradvising@utk.edu

@utk.tce

- @UTK_TCE
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