Welcome to the Tickle College of Engineering (TCE)!

It’s time to take the next step in your journey toward becoming an engineer, and we are happy that you have chosen to take it with us at the University of Tennessee, Knoxville.
Goals of this Powerpoint

• Acquaint yourself with the Tickle College of Engineering
• Understand basic requirements of our college and how to get involved your first year
• Familiarize yourself with degree requirements and frequently used terminology
• Complete the required worksheets for orientation advising
• Devise a tentative schedule for your fall courses (this will be approved and possibly refined at orientation)
• Bring a tablet or laptop (and charger) to orientation advising
Welcome to the Tickle College of Engineering

Welcome to the University of Tennessee! Now is a great time for our college, and an even better time to be a student. The Engineering Vols community is a place where students feel supported in pursuing their individual passions. Today is only the start of your journey to a superior and meaningful educational experience. Go Vols!

Janis Terpenny, Dean

Ozlem Kilic, Associate Dean for Academic & Student Affairs
Majors Offered - visit departmental website to learn all about our majors!

- Biosystems Engineering: ag.tennessee.edu/bess
- Materials Science and Engineering: mse.utk.edu
- Civil and Environmental Engineering: cee.utk.edu
- Industrial and Systems Engineering: ise.utk.edu
- Electrical Engineering and Computer Science: eecs.utk.edu
- Nuclear Engineering: ne.utk.edu
- Chemical and Biomolecular Engineering: cbe.utk.edu
- Mechanical, Aerospace, and Biomedical Engineering: mabe.utk.edu
Your Engineering Orientation Required To-Do’ List:

1. Complete the AP/IB/Dual Credit worksheet. Print and Bring to orientation.
2. Complete the General Education worksheet. List courses of interest to you in the social sciences, arts & humanities, and culture & civilizations categories. Print and bring to orientation.
3. Bring a tentative fall semester plan with you to orientation (more information on this in subsequent slides).
4. Bring a tablet or laptop (and charger) to orientation with you. You will be using it to register for your courses so make sure that you have access to your UTK student account.

• Review requirements for your degree (read next slide)
Requirements for Your Degree

- **General Education Requirements**
  - See ‘terms to know’ on the next screen
  - Required by the University of Tennessee for all students
  - Review at [https://catalog.utk.edu/](https://catalog.utk.edu/). Choose ‘General Education Requirements’ from the navigation bar on the right. Engineering students select gen ed choices in social sciences, arts & humanities, and culture & civilizations and bring your general education worksheet with you to orientation.

- **Major Requirements**
  - Required by your individual engineering major
  - Review at [https://catalog.utk.edu/](https://catalog.utk.edu/). Choose ‘Majors’ from the navigation bar on the right
  - Options for minors exist (and are not required), but this topic is best addressed after you have begun your first semester

All requirements are specific to your catalog year, which is generally the fall catalog for the year you began studying at the University of Tennessee.

Course descriptions can be found on the website listed above, from the same navigation bar. These course descriptions include pre-requisites or co-requisites (see ‘terms to know’ on next screen) for any given course.
Terms to Know

- **Pre-requisite** – a course that must be completed successfully before enrolling in another course that requires it.

- **Co-requisite** – a course that must be completed before, or taken alongside, a course that requires it.

- **Credit Hour** – a unit of academic credit received for 100 minutes of weekly classroom instruction or two-three hours of laboratory instruction. In general, a large portion of college courses are three credit hours each.

- **General Education (gen ed)** – a specific list of courses from which a student can generally choose freely. An engineering student may choose two courses (6-hours) from the cultures and civilizations category and two courses (6-hours) from the arts and humanities category. **Check the guidelines for your specific engineering major regarding the social science category.** A total of two courses (6-hours) is required from this category, but your faculty may prescribe that Economics 201/207 be one of the two.
Abbreviations to Know

- Advanced Placement credit earned from exams (AP)
- Dual Enrollment (DE) – college credit earned while in high school
- Degree Audit Reporting System (DARS)
- Course Registration Number (CRN)
- Engineering Fundamentals (EF)
- International Baccalaureate credit earned from exams (IB)
- Grade Point Average (GPA)
- Tickle College of Engineering (TCE)
- FA, SP, SU – refers to semesters a course is taught in (fall, spring, summer)
Crafting Your Upcoming Fall Academic Plan

- You are **required** to create an academic plan and bring it with you to orientation.
- For now, you need only plan out the course names and numbers (for example, English 101) that you plan to take in the fall. You do NOT need to select the exact section (days of the week/time) of each course that you plan to register for. We’ll help you learn how to do that at orientation.
- Courses associated with various honors programs will be addressed at orientation.
- The courses that you plan for the fall are largely based on the math classes that you are qualified to take, determined by your highest math ACT/SAT score.
If your highest ACT/SAT math score does not place you into the level of math you had expected, please review your options below:

- AP credits, IB credits and/or Dual Enrollment credits trump the ACT/SAT Math scores. You **MUST bring in verification** of any of these credits, and/or the score/grade earned.
- Successfully pass the [online math placement test](#) (Level 4) through the math department for attaining a readiness for Math 141.
### Tentative** Fall Semester Classes:

**Math ACT Scores of 25, 26, 27 (SAT Math 590 to 650)**

<table>
<thead>
<tr>
<th>Course Numberas</th>
<th>Course Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101/118/198/131</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Math 131</td>
<td>Calculus 1A infused with precalculus</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course</td>
<td>Choose from Social Science, Arts &amp; Humanities or Cultures &amp; Civilizations list</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course</td>
<td>Choose from Social Science, Arts &amp; Humanities or Cultures &amp; Civilizations list</td>
<td>3</td>
</tr>
<tr>
<td>First Year Studies 100</td>
<td>The Volunteer Connection</td>
<td>0</td>
</tr>
<tr>
<td>First Year Studies 101 or 129</td>
<td>The UT Experience or Special Topics Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

** plan will be reviewed with student prior to registration  

Total: 13 hours
### Tentative** Fall Semester Classes: Math ACT Scores of 28 or higher (SAT Math > 660)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101/118/198/131</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Math 141/147</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>EF 151/157</td>
<td>Physics for Engineers I</td>
<td>4</td>
</tr>
<tr>
<td>EF 105</td>
<td>Computer Methods in Engineering Problem Solving OR</td>
<td>1</td>
</tr>
<tr>
<td>COSC 102 (for Electrical, Computer Engr. and Computer Science majors only)</td>
<td>Introduction to Computer Science OR</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 120/128 (depending on major choice)</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>First Year Studies 101 or 129</td>
<td>The UT Experience or Special Topics Seminar</td>
<td>1</td>
</tr>
<tr>
<td>FYS 100</td>
<td>The Volunteer Connection</td>
<td>0</td>
</tr>
</tbody>
</table>

**plan will be reviewed with student prior to registration

Total: 16-17
Success Tips for Engineering Majors

- Focus on time management and prioritization skills.
- Attend class regularly.
- Find a productive study location and form study groups.
- Keep up with homework daily.
- Utilize tutoring and support provided on campus.
  - Go regularly, not just once.
- Introduce yourself to your professors – ask questions about class expectations and requirements.
- Connect with your advisor – ask questions and share your plans.
Experience Engineering

There are many ways to begin planning for a deeper level of involvement within the Tickle College of Engineering (TCE) outside the classroom. Consider opportunities such as honors programs, studying abroad, career development, co-op or internships, global initiatives, undergraduate research, and more.

On the next page, read about some of the opportunities available to you and be prepared to begin discussing the ones you are most interested in with your advisor during fall semester.
Experience Engineering

**Center for Career Development**
- Explore majors, develop career readiness, participate in job fairs

**Cook Grand Challenge Engineering Honors Program**
- Provides greater intellectual challenges and broader educational experiences for engineering students

**Engineering Diversity Office**
- Check out the programs, support services, and student organizations

**Engineering Faculty Led Study Abroad**
- Study abroad in engineering courses with our faculty

**Engineering Global Initiatives**
- Participate with fellow engineering students on international service trips (December break, spring break, and summers)

**Engineering Professional Practice** *(co-ops/internships)*
- Enhance your classroom learning with real world work experience, participate in hiring expos in Fall and Spring semesters

**Innovation & Collaboration Studio** *(maker space)*
- Hands on maker space to create personal and classroom projects

**Office of Undergraduate Research**
- Attend a “getting started” seminar, connect to research opportunities

**Veteran Student Services**
- Connects veterans to support services

**Engineering Student Organizations**
- Consider joining a student organization in engineering
The advising team looks forward to meeting with you during orientation. Go Vols!

If you have questions about the information in this powerpoint that you feel need to be answered prior to orientation, contact the Engineering Advising office at (865) 974-4008 or by e-mailing engradvising@utk.edu.

Follow us on:

@utk.tce
@UTK_TCE
@utk.tce