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 at UT
• Familiarize yourself with degree requirements and frequently used terminology
• Complete the worksheets to prepare for orientation advising
• Devise a tentative schedule (this will be approved and possibly refined during 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!

Matthew Mench, Dean

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

- Biosystems Engineering
  bess.tennessee.edu

- 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 Advising To-Do List:

1. Complete the AP/IB/Dual Credit worksheet. Share during orientation advising.
2. Complete the General Education worksheet. List courses of interest to you in the social sciences, arts & humanities, and culture & civilizations categories. Share during orientation advising.
3. Have a tentative semester plan to share during orientation advising (more information on this in subsequent slides).
4. Be sure to accept and zoom into your orientation advising appointment. Check your UT email for that invitation link.

- 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

- 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 Academic Plan

- You are asked to create an academic plan and share it with your advisor during orientation advising.
- For now, you need only plan out the course names and numbers (for example, English 101) that you plan to take. You do NOT need to select the exact section (days of the week/time) of each course that you plan to register for. You do that when you register.
- Courses associated with various honors programs will be addressed during your orientation advising appointment.
- The courses that you plan are largely based on the math classes that you are qualified to take, determined by your highest Math ACT/SAT score, Math Placement Exam, or college credits you have already earned.
Crafting Your Upcoming Academic Plan (cont.)

- 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 override the ACT/SAT Math scores. You **MUST provide 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** Semester Classes:

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

<table>
<thead>
<tr>
<th>Course Numbers</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>Engineering Fundamentals 141</td>
<td>Introduction to Physics and Modeling for Engineers I</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course</td>
<td>Choose from Social Science, Arts &amp; Humanities or Cultures &amp; Civilizations list in</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science 101 (for</td>
<td>Undergraduate Catalog</td>
<td></td>
</tr>
<tr>
<td>Electrical, Computer, and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Science Majors Only)</td>
<td></td>
<td></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>** advisor and student will</td>
<td></td>
<td></td>
</tr>
<tr>
<td>review the courses prior to</td>
<td></td>
<td></td>
</tr>
<tr>
<td>registration</td>
<td></td>
<td>Total: 13 hours</td>
</tr>
</tbody>
</table>
## Tentative** 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/Honors</td>
<td>4</td>
</tr>
<tr>
<td>EF 151/157</td>
<td>Physics for Engineers I/Honors</td>
<td>4</td>
</tr>
<tr>
<td>EF 105</td>
<td>Computer Methods in Engineering Problem Solving OR</td>
<td>OR 1</td>
</tr>
<tr>
<td>OR</td>
<td>COSC 101 (for Electrical, Computer Engr. and Computer Science majors only)</td>
<td>OR 3</td>
</tr>
<tr>
<td>OR</td>
<td>Introduction to Programming</td>
<td></td>
</tr>
<tr>
<td>Chemistry 122-123/128 (depending on major choice)</td>
<td>General Chemistry I and lab/ Honors</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>
</tbody>
</table>

**advisor and student will review the courses 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.
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