

# YOUR Major Action Plan: Engineering Majors

Updated February 2018



| What is YOUR passion?   | 1st YEAR  | 2nd YEAR   |
|---|---|--|
| <p>Making the world a better place.</p> <p>Designing new technologies.</p> <p>Problem Solving.</p>  | <p><b>YOUR Target Courses</b></p> <ul style="list-style-type: none"> <li>- Successfully complete FYS course.</li> <li>- See Engineering Faculty Advisor to be advised and update your 8 Semester plan.</li> <li>- Discuss, explore, and choose your Engineering discipline.                             <ul style="list-style-type: none"> <li>- Civil Engineering (CVEN)</li> <li>- Environmental Engineering (ENVE)</li> <li>- Electrical Engineering (ELEN)</li> <li>- Mechanical Engineering (MEEN)</li> </ul> </li> <li>- If MATH 2414 and PHYS 2425 are not completed by the end of year 1, it is strongly recommended that you complete these as summer courses to stay on track.</li> </ul>   | <ul style="list-style-type: none"> <li>- See Engineering Faculty Advisor to be advised and update your 8 Semester plan.</li> <li>- Successfully complete key pre-requisites dependent upon your discipline, including, but not limited to:                             <ul style="list-style-type: none"> <li>- CVEN—CVEN 2312, ENGR 2321, CVEN 3423, ENVE 3300</li> <li>- ELEN—MATH 3306, ELEN 2425, ELEN 2448</li> <li>- ENVE—ENGR 3311, ENVE 2310, ENVE 2450, ENVE 3300</li> <li>- MEEN—MATH 3306, ENGR 2321, ENGR 2322, ENGR 2324</li> </ul> </li> <li>- If MATH 3343 (Cal 3) is not completed by the end of year 2, you are encouraged to complete this as a summer course to finish your math foundation.</li> </ul> |
| <p>Road and bridge design</p> <p>Structural design</p> <p>Robotics and Automation</p> <p>Electronics Design</p> <p>Clean water systems</p>            | <p><b>Find YOUR Way</b></p> <p><b>Succeed!</b></p> <ul style="list-style-type: none"> <li>- Attend <u>Study Skills</u> sessions for additional assistance with acclimating the first year.</li> <li>- Attend or use <u>Supplemental Instruction (SI)</u>, <u>Math Clinic</u>, <u>Science Clinic</u>, <u>Tutoring</u>, and <u>Writing Center</u>.</li> <li>- Meet with your Engineering Peer Mentor for your ENGR 1211/1212 class.</li> <li>- Know the <u>FAFSA</u> and <u>Scholarship deadlines</u> each year and submit these!</li> </ul> <p><b>Connect!</b></p> <ul style="list-style-type: none"> <li>- Explore student groups and organizations in <u>TexanSync</u> in your major or hobby areas.                             <ul style="list-style-type: none"> <li>- Engineering Club</li> <li>- Professional Society Student Chapters</li> </ul> </li> </ul> <p><b>Be Healthy!</b></p> <ul style="list-style-type: none"> <li>- Seek help from <u>Student Counseling Center</u> for home sickness, depression, or other issues.</li> <li>- Feeling ill? Visit <u>Student Health Services</u> for physical health related concerns.</li> </ul> <p><b>Find Your Way.</b></p> <ul style="list-style-type: none"> <li>- Undecided about your major? Want to learn more about different career options? Take advantage of <u>career counseling and career assessments</u> through Career Services.</li> </ul> | <p><b>Engage!</b></p> <ul style="list-style-type: none"> <li>- Explore participating in undergraduate research opportunities with Engineering Faculty.</li> <li>- Explore other Applied Learning Experiences (ALE) such as internships, study abroad, service learning or leadership experiences.</li> </ul> <p><b>Connect!</b></p> <ul style="list-style-type: none"> <li>- Explore student groups and organizations in <u>TexanSync</u> in your major or hobby areas.                             <ul style="list-style-type: none"> <li>- Engineering Club</li> <li>- Professional Society Student Chapters</li> </ul> </li> </ul>  |
| <p>Clean energy systems</p> <p>Computer system design</p> <p>Aerospace systems</p>  | <p><b>Sharpen YOUR Skills</b></p> <ul style="list-style-type: none"> <li>- Start understanding the <u>marketable skills</u> that employers are seeking.</li> <li>- Get involved in <u>Service Day</u> and Tarleton Roundup.</li> <li>- Apply to be a <u>Residential Leader (RL)</u> or Tarleton Transition Mentor (TTM).</li> <li>- Run for <u>Freshman Representative Council</u> with SGA (Student Government Association).</li> <li>- Look into <u>Greek Organizations</u> to build networks and community.</li> </ul>   | <ul style="list-style-type: none"> <li>- Seek out volunteer and service learning opportunities in your area through <u>Volunteer Match</u> or <u>United Way</u> to give back to the community and build marketable skills for future employment.</li> <li>- Get more familiar with events offered by <u>The Office of Diversity and Inclusion</u>, <u>Fine Arts Center</u> for cultural and diversity awareness.</li> <li>- Participate in <u>Alternative Spring Break</u>.</li> <li>- Run for <u>Student Government Association</u>.</li> <li>- Seek out summer internship opportunities with a faculty mentor or advisor.</li> </ul>   |
| <p>Explore more occupations and occupation groups through the <u>Occupational Outlook Handbook</u> powered by the Bureau of Labor and Statistics.</p> | <p><b>YOUR Next Steps</b></p> <ul style="list-style-type: none"> <li>- Check out part-time jobs in <u>Career Services employment system</u> to gain work skills to begin building your resume.</li> <li>- Attend <u>job and graduate school fairs</u> to explore possible future opportunities. Be sure to make a <u>good first impression with your attire</u>.</li> <li>- Investigate the type of lifestyle, salary and occupation you'd like to have through Texas <u>Reality Check</u> tool (powered by Texas Workforce Commission).</li> <li>- Learn more about your student loan debt, budgeting and much more through <u>SALT</u>.</li> </ul>  | <ul style="list-style-type: none"> <li>- Explore <u>career opportunities</u>.</li> <li>- Develop your pre-professional <u>resume</u> with help from Career Services and your engineering faculty.</li> <li>- Get to know your instructors to develop professional references and explore research opportunities and internships.</li> </ul>  |

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| Graduate Placement  |                     | 3rd YEAR  | 4th YEAR  |
|---|---------------------|---|---|
| <b>Industry &amp; Consulting</b><br><br>Lockheed Martin<br><br>Luminant<br><br>Raytheon | YOUR Target Courses | <ul style="list-style-type: none"> <li>- See Engineering Faculty Advisor to be advised and update your 8 Semester plan.</li> <li>- Explore Senior Capstone Project ideas and opportunities.</li> <li>- Complete all courses successfully to ensure timely graduation.</li> </ul>  | <ul style="list-style-type: none"> <li>- See Engineering Faculty Advisor to be advised and update your 8 Semester plan.</li> <li>- Complete all courses successfully to ensure timely graduation.</li> </ul>  |
| Merrick and Co.<br><br>TxDoT<br><br>TCEQ<br><br>Kimley-Horn<br><br>ARCADIS              | Find YOUR Way       | <p><b>Engage!</b></p> <ul style="list-style-type: none"> <li>- Explore participating in undergraduate research opportunities with Engineering Faculty.</li> <li>- Explore other Applied Learning Experiences (ALE) such as internships, study abroad, service learning or leadership experiences</li> <li>- Participate in an internship. Suggested resources for internships can be found on the ENCS department billboard, <a href="#">Career Service's employment system</a>, or the <a href="#">College Internship Program's website</a>.</li> <li>- Conduct informational interviews and talk to people who are working in fields of interest to you.</li> <li>- Take part in the <a href="#">Official Ring Ceremony</a>.</li> </ul>   | <p><b>Engage!</b></p> <ul style="list-style-type: none"> <li>- Explore participating in undergraduate research opportunities with Engineering Faculty.</li> <li>- Explore other Applied Learning Experiences (ALE) such as internships, study abroad, service learning or leadership experiences.</li> <li>- Participate in <a href="#">TAMUS Engineering Career Fair</a>.</li> </ul>   |
| =====<br><br><b>Grad School</b><br><br>Texas A&M<br><br>Texas Tech                      | Sharpen YOUR Skills | <ul style="list-style-type: none"> <li>- Explore student organizations in <a href="#">TexanSync</a> in your major.                             <ul style="list-style-type: none"> <li>- Engineering Club</li> <li>- Professional Society Student Chapters</li> </ul> </li> <li>- Consider taking on leadership roles within your student organizations and clubs.</li> <li>- Seek out volunteer and service learning opportunities such as <a href="#">All For Good</a>.                             <ul style="list-style-type: none"> <li>- Give back to the community</li> <li>- Build marketable skills for future employment</li> </ul> </li> </ul>  | <ul style="list-style-type: none"> <li>- Explore student organizations in <a href="#">TexanSync</a> in your major.                             <ul style="list-style-type: none"> <li>- Engineering Club</li> <li>- Professional Society Student Chapters</li> </ul> </li> <li>- Consider taking on leadership roles within your student organizations and clubs.</li> <li>- Seek out volunteer and service learning opportunities such as <a href="#">All For Good</a>.                             <ul style="list-style-type: none"> <li>- Give back to the community</li> <li>- Build marketable skills for future employment.</li> </ul> </li> </ul> |
| Oklahoma Univ.<br><br>UNT<br><br>UT-Dallas<br><br>Univ. of Colorado                     | YOUR Next Steps     | <ul style="list-style-type: none"> <li>- Plan your <a href="#">job-search campaign</a> by meeting with a Career Services staff member or Faculty Advisor for assistance and <a href="#">mock interviews</a>, resume critiques and a <a href="#">Business Etiquette Dinner</a> to continue building your professional skills.</li> <li>- Consider graduate school and application deadlines or employment.</li> <li>- Compile reference letters, awards, etc.</li> <li>- Create a <a href="#">LinkedIn</a> profile to further your professional networking.</li> <li>- Check the <a href="#">Career Services calendar</a> for career development workshops.</li> <li>- Investigate graduate schools and attend the Open House for <a href="#">TSU Graduate Studies</a>.</li> <li>- Need to get more experience and skills? Check out <a href="#">CareerOneStop.org</a> sponsored by the US Department of Labor.</li> <li>- File for <a href="#">GRADUATION!</a></li> </ul> | <ul style="list-style-type: none"> <li>- Update resume in <a href="#">Career Service's employment system</a>, Portfolium and LinkedIn.</li> <li>- Make a list of potential employers, research companies, network and interview.</li> <li>- Attend <a href="#">job fairs</a> and <a href="#">dress professionally</a>.</li> <li>- Consider and review various job offers. Reflect on information needed to <a href="#">negotiate a salary</a> if needed.</li> <li>- Graduate! Congratulations!</li> <li>- Join the <a href="#">Tarleton Alumni Association</a> to stay connected to the University. <b>BLEED PURPLE!</b></li> </ul>                       |