# YOUR CLASS SCHEDULE

**Freshman**
- Focus on General Education, Math, and Science courses
- Enroll in 16 and 17 credit hours in Fall and Spring semesters, respectively

**Sophomore**
- Complete basic math and science courses
- Start core engineering courses
- Enroll in 17 and 15 credit hours in Fall and Spring semesters, respectively

**Junior**
- Complete core engineering courses
- Start mechanical engineering courses
- Enroll in 17 and 15 credit hours in Fall and Spring semesters, respectively

**Senior**
- Complete mechanical engineering courses
- Complete industrial track courses
- Enroll in 14 and 15 credit hours in Fall and Spring semesters, respectively

# ACADEMIC ADVISING

**Freshman**
- Participate in New Student Orientation
- Meet with your Academic Advising Center Freshman Advisor before registration
- Ask you Advisor about the recommended course sequencing for your degree plan

**Sophomore**
- Meet with your Academic Advising Center Freshman Advisor before registration
- Verify course sequencing with your academic advisor

**Junior**
- Meet with your engineering academic advisor before registration
- Verify course sequencing with your engineering academic advisor

**Senior**
- Meet with your engineering academic advisor before registration
- Finalize course selections for spring graduation

# ENRICHING EXPERIENCES

**Prioritize Your Wellness**
- Participate in campus recreation
- Attend Financial Literacy seminars
- Form healthy study habits

**Build Your Community**
- Use FalconLink & attend Club Day
- Volunteer
- Attend campus events
- Explore student chapters of professional societies: ASME, SAE, ANS, SWE

**Explore Your World**
- Attend an athletics event, musical performance, or visit the art gallery
- Participate in New Student Orientation
- Meet with your Academic Advising Center Freshman Advisor before registration
- Ask your Advisor about the recommended course sequencing for your degree plan

# LIFELONG SUCCESS

**Build Your Brand**
- Draft your resume
- Register for the Job Board
- Ask your Advisor about the recommended course sequencing for your degree plan

**Craft Your Future**
- Explore career options
- Investigate industrial tracks in mechanical engineering: nuclear power and petroleum
- Have coffee with a faculty member
- Seek summer internship opportunities

**Explore Your World**
- Attend an athletics event, musical performance, or visit the art gallery
- Build Your Community
- Volunteer
- Attend campus events
- Explore student chapters of professional societies: ASME, SAE, ANS, SWE

**Build Your Brand**
- Update your resume
- Join LinkedIn
- Consider student employment

**Craft Your Future**
- Participate in mock interviews
- Explore professional licensing of engineers
- Attend an internship/career fair

**Explore Your World**
- Consider study abroad
- Attend a lecture series
- Build Your Community
- Run for organization officer role
- Join Alumni Association upon graduation

**Build Your Brand**
- Update your resume
- Attend workshops on job hunting and interviewing
- Conduct research with faculty

**Craft Your Future**
- Prepare for the Fundamentals of Engineering Examination in the semester prior to graduation
- Continue summer internship program

**Explore Your World**
- Consider study abroad
- Attend a health fair
- Build Your Community
- Run for organization officer role
- Attend Alumni Association upon graduation

**Build Your Brand**
- Update your resume
- Attend career fairs
- Apply for full time jobs

# UTPB students will graduate with these skills:
- Leadership
- Problem-solving
- Communication
- Engineering Design
- Social Responsibility
- Confidence
- Global Awareness
- Teamwork
- Critical Thinking

# Career opportunities:
- Design Engineer
- Technical Sales
- Project Manager
- Manufacturing
- HVAC Design
- Process Control
B. S. MECHANICAL ENGINEERING REQUIREMENTS – Petroleum Track

Semester 1
- ENGL 1301  English Composition I
- HIST 1301  U.S. History to 1877
- MATH 2413  Calculus I
- CHEM 1311  General Chemistry I
- CHEM 1111  General Chemistry I lab
- ENGR 1204  Engineering Graphics

16 hours

Semester 2
- ENGL 1302  English Composition II
- HIST 1302  U.S. History Since 1877
- COMM 1315  Introduction to Public Speaking
- MATH 2414  Calculus II
- PHYS 2325  University Physics I
- PHYS 2125  University Physics I Lab

17 hours

Semester 3
- PLSC 2305  American National Politics
- Creative Arts Course
- MATH 2415  Calculus III
- PHYS 2326  University Physics II
- PHYS 2126  University Physics II Lab
- ENGR 2301  Engr. Mechanics: Statics

17 hours

Semester 4
- MATH 3301  Statistics
- MATH 3320  Differential Equations
- ENGR 3303  Introduction to Materials Science
- ENGR 2302  Engr. Mechanics: Dynamics
- ENGR 3375  Intro. to Thermodynamics

15 hours

Semester 5
- ENGR 3332  Mechanics of Materials
- ENGR 3354  Intro. to Fluid Mechanics
- MENG 3206  Mechanical Engr. Lab I
- MATH 3310  Linear Algebra
- PENG 2301  Petroleum Fundamentals
- Social and Behavioral Science Course

17 hours

Semester 6
- MENG 3348  Comp.-Aided ME Design
- MENG 3356  Fluid Mechanics II
- MENG 3364  Mechanical Design I
- MENG 3376  Thermodynamics II

15 hours

Semester 7
- ENGR 3390  Engineering Programming
- MENG 4205  T/F and Mech. Sys. Lab
- PENG 3101  Drilling Fluids Laboratory
- PENG 3104  Reservoir Engineering Lab.
- PENG 3301  Drilling Engineering
- PENG 3304  Reservoir Engineering I
- Language, Philosophy and Culture Course

16 hours

Semester 8
- MENG 3351  Heat Transfer
- MENG 4478  Senior Design
- PENG 4301  Production Engineering
- PLSC 2306  State and Local Politics

13 hours