

2024-2025 and later catalogs

Student Name _____ TTU ID _____ Date _____

Email Address _____ ADVISING FOR _____ (e.g., fall 2020)

Students: For courses taken at TTU, put the grade received next to the course.
For transfer credit, use T and the grade received (ex. TB).
For courses that you are currently enrolled in and expect to pass, use an R next to that course.
DO NOT EDIT THE TEXT ON THIS FORM.

Advisors: Indicate the courses to be taken in the following semester by circling the courses.

FIRST YEAR

Fall

ENGL 1301, Ess. Coll. Rhetoric _____
MATH 1451, Calc. I _____
CHEM 1307 & 1107, Prin. of Chem. I _____
ENGR 1110, Engineering Seminar _____
ENGR 1330, Comp.Thinking/Data Sc. _____

Spring

ENGL 1302, Adv. Coll. Rhetoric _____
MATH 1452, Calc. II _____
ENGR 1320, Bio-Inspired Design _____
ENGR 2392, Engr. Ethics (LPC) _____
PHYS 1408, Prin. of Phys. _____

SECOND YEAR

Fall

MATH 2450, Calc. III _____
CHEM 1308 & 1108, Prin. Of Chem. II _____
CH E 2310, Intro. to Chem. Proc.* _____
PHYS 2401, Prin. of Phys. II _____

Spring

MATH 3350, Adv. Math. for Engr. I _____
CH E 3315, Fluid Mechanics* _____
CH E 2321, Chem. Eng. Thermo. I * _____
CHEM 3305 & 3105, O-Chem I _____

THIRD YEAR

Fall

CH E 2306, Expos. Tech. Info* (Oral Comm) _____
CH E 3326, Heat Transfer* _____
CH E 3322, Chem. Eng. Thermo. II* _____
IE 2324, Engr. Econ. Analysis(Soc/Behavior) _____
CH E 3330 Eng. Materials Sci. _____

Spring (Apply for Graduation)

Chemical Engineering elective _____
CH E 3232, Transport Lab.* _____
CH E 3341, Mass-Trans. Oper.* _____
CH E 3323, Chem. Reaction Eng.* _____
CH E 4372, Eng. Experimentation. _____

FOURTH YEAR

Fall

CH E 4232, Unit Oper. Lab.* _____
CH E 4353, Process Control* _____
Chemical Engineering Elective _____

Spring

CH E 4455, Chem. Proc. Des. & Sim.* _____
CH E 4356, Process Safety* _____
Chemical Engineering Elective _____

Additional Requirements - Indicate the Course (ex. ART 1309) as well as the grade.

American History (6 hrs) _____ Multicultural (3 hrs) _____

Political Science (6 hrs) _____ Creative Arts (3 hrs) _____

Chemistry Electives (6 hrs lecture, 1 hr. lab) _____

18-hr rule ____ 3 engr repeats ____ 3 attempts per course ____

Foreign language – 2 yrs HS _____ or freshman-level courses _____

Additional Comments:

Advisor Signature _____

Student Signature _____ Date _____

***Classes in bold print are only guaranteed to be offered in the semester in which they are listed and must be taken in sequence.**

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Polymer and Materials Minor#

Minimum of six courses.

Two courses are required:

- _____ CH E 4344 Polym./Mat. Lab.
- _____ CH E 3330 Materials Sci.

Plus four courses chosen from the following list with two in another department:

- _____ CHEM 3306 Organic Chem. II
- _____ CHEM 4310 Polymer Chem.
- _____ CH E 4340 Polymer Proc.
- _____ CH E 4341 Polymerization Eng.
- _____ CH E 4342 Polymer Physics/Eng.
- _____ CH E 4345 Dyn. Polym. Nonlinear Fluids
- _____ CH E 4346 Polymer Viscoelasticity
- _____ CH E 4393 Colloid Science/Engr.
- _____ CH E 4394 Soft Materials
- _____ E E 4381 VLSI Processing
- _____ M E 3228 Materials & Mechanics Lab.

#Earning of the Polymer minor is contingent on the offering of polymer electives.

Math Minor

Minimum of six courses.

Three courses are required:

- _____ MATH 1451 Calc. I
- _____ MATH 1452 Calc. II
- _____ MATH 2450 Calc. III

One elective is required for the BS Ch E degree:

- _____ MATH 3350 or 3354 Diff. Eqns. I*

Plus six hours of approved courses (the following are recommended, others may be taken - see the Math Dept. for all options); for graduate school in Ch E, MATH 3351 or 4354 is recommended:

- _____ MATH 2360 Linear Algebra*
- _____ MATH 3342 Math. Stat. for Eng.
- _____ MATH 3351 Higher Math for Eng. II
- _____ MATH 4310 Intro. Num. Anal. I
- _____ MATH 4354 Diff. Eqns. II

*If Dif Eq is from community college, you must take upper-level courses for remaining 6 hours.

Bioengineering Minor

Minimum of seven courses required.

Three courses are required:

- _____ BIOL 1403 Biology I (Fall)
- _____ CHEM 1308/1108 Prin. Chem II (Fall or Spr)

Plus one of the following:

- _____ BIOL 1404 Biology II (Spring)
- _____ CHEM 3306/3106 Organic Chem. II & Lab**
- _____ MBIO 3400 Microbiology

Plus one of the following core bioengineering courses:

- _____ CH E 4363 Biochemical Engineering**
- _____ ECE 5356 Bioinstrumentation/Biosensors

Plus two of the following (note must not include core course):

- _____ CH E 4363 Biochemical Engineering(if not used as core)
- _____ CH E 4364 Ch E Appl. in Biological Systems**
- _____ CH E 4365 Biotransport**
- _____ CH E 4366 Biomicrofluidics**
- _____ CH E 4385 Bioprocess Control**
- _____ CS 3368 Artificial Intelligence
- _____ CS 4379 Concurrent and Parallel Programming
- _____ CS 5393 Bioinformatics
- _____ ECE 4367 Image Processing
- _____ ECE 5351 Biomedical Signal Processing
- _____ ECE 5355 Genomic Signal Processing and Control
- _____ ECE 5356 Bioinstrumentation/Biosensors (if not used as core)
- _____ ENV E 3309 Environmental Engineering
- _____ ENV E 4385 Microbial Apps. in Envir. Engineering
- _____ ENV E 4399 Bio. Municipal Wastewater Treatment
- _____ IE 4301 Engineering Design for People
- _____ IE 4306 Work and Product Safety Engineering
- _____ MBIO 3401 Principles of Microbiology (Fall or Spring):
OR CHEM 3310 Molecular Biochemistry;
OR BIOL 3320 Cell Biology

** Denotes courses preferred for CH E Majors