

2016-2017 thru 2019-2020 catalogs

Student Name _____ **TTU ID** _____ **Date** _____

Email Address _____ **ADVISING FOR** _____ (e.g., fall 2013)

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.
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 _____
 CH E 1121, Chem. Eng. Seminar _____

Spring

ENGL 1302, Adv. Coll. Rhetoric _____
 MATH 1452, Calc. II _____
 CHEM 1308 & 1108, Prin. of Chem. II _____
 CHE 1305 Engr. Analysis _____
 PHYS 1408 Prin. of Phys. _____

SECOND YEAR

Fall

MATH 2450, Calc. III _____
 CHEM 3305 & 3105, Org. Chem. I _____
 CH E 2410, 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 2421, Chem. Eng. Thermo. I _____
 ENGR 2392, Engr. Ethics (LPC) _____

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) _____

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 3330 Eng. Mater. Sci. _____

FOURTH YEAR

Fall

CH E 4232, Unit Oper. Lab. _____
 CH E 4353, Process Control _____
 CH E 4322 CHE Review _____
 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, 2 hrs lab) _____
 Int'l Experience - Completed _____ or Exempt _____ 18-hr rule _____ 3 engr repeats _____ 2 attempts per course _____
 Foreign language - 2 yrs HS _____ or freshman-level courses _____

Additional Comments:

Advisor Signature _____

Student Signature _____ **Date** _____

Return Form to Kristina Thompson (CHE 211) For Hold Removal

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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.

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

Bioengineering Minor

(Catalog 2013-2014 and later)*

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 3361 Work Analysis and Design
- _____ IE 4361 Engineering Design for People
- _____ IE 4362 Industrial Ergonomics
- _____ IE 4363 Work and Product Safety Engineering
- _____ MBIO 3401 Principles of Microbiology (Fall or Spring):
OR CHEM 3310 Molecular Biochemistry;
OR BIOL 3320 Cell Biology

*On catalog before 2013-2014, a statistics course is required: MATH 3342 or IE 3341 or CHE 4372

** Denotes courses preferred for CH E Majors