2016-2017 through 2019-2020 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.
Advisors: Indicate the courses to be taken in the following semester by circling the courses.

FIRST YEAR	*Fall*		*Spring*	
	ENGL 1301, Ess. Coll. Rhetoric	_____	ENGL 1302, Adv. Coll. Rhetoric	_____
	MATH 1451, Calc. I	_____	MATH 1452, Calc. II	_____
	CHEM 1307/1107, Prin. of Chem. I	_____	CHEM 1308/1108 Prin. of Chem. II	_____
	CH E 1121 Freshman Seminar	_____	CH E 1305 Engr. Analysis	_____
			PHYS 1408, Prin. of Phys.	_____
SECOND YEAR	*Fall*		*Spring*	
	MATH 2450, Calc. III	_____	MATH 3350, Adv. Math. for Engr. I	_____
	CHEM 3305/3105 O-Chem I	_____	CH E 3315, Fluid Mechanics	_____
	CH E 2410, Intro. to Chem. Proc.	_____	CH E 2421, Chem. Eng. Thermo. I	_____
	PHYS 2401, Prin. of Phys. II	_____	ENGR 2392 Engr. Ethics (LPC)	_____
THIRD YEAR	*Fall*		*Spring (Apply for Grad School)*	_____
	CH E 2306, Expos. Tech. Info (Oral Comm)	_____	CH E 3330, Eng. Mater. Sci.	_____
	CH E 3326, Heat Transfer	_____	CH E 3232, Transport Lab.	_____
	CH E 3322, Chem. Eng. Thermo. II	_____	CH E 3341, Mass-Trans. Oper.	_____
	IE 2324, Engr. Econ. Analysis(Soc/Behavior)	_____	CH E 3323, Chem. Reaction Eng.	_____
FOURTH YEAR	*Fall*		*Spring*	
	CH E 4232, Unit Oper. Lab.	_____	CH E 4455, Chem. Proc. Des. & Sim.	_____
	CH E 4353, Process Control	_____	CH E 4356, Process Safety	_____
	CH E 4322, CHE Review	_____	CH E graduate core course	_____
	CH E graduate core course	_____	CH E graduate core course	_____
	CH E graduate seminar		CH E graduate seminar	_____

Research might be required for summer – consult faculty mentor

FIFTH YEAR	*Fall*		*Spring*	
	CH E graduate core course	_____	CH E graduate elective	_____
	CH E graduate core course	_____	CH E graduate elective	_____
	CH E graduate elective	_____	CH E graduate elective	_____
	CH E research (3 hours)	_____	CH E research (3 hours)	_____
	CH E graduate seminar	_____		

Additional Requirements for BS - 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) _____ _____ _____

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

2016-2017 through 2019-2020 catalogs

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