Bachelor of Science in Industrial Engineering
Curriculum Flowchart

1st Semesters

- MATH 1451 (CAL I)
- CHEM 1307 (CHEM I)
- ENGR 1315 OR IE 1385
- ENGL 1301 (ESS COLL RHET)
- HIST 2300 (HIST US TO 1877)

2nd Semesters

- MATH 1452 (CAL II)
- CHEM 1308 (CHEM II)
- ENGR 1315 OR IE 1385
- ENGL 1302 (ADV COLL RHET)
- HIST 2301 (HIST US FROM 1877)

3rd Semesters

- MATH 2450 (CAL III)
- CHEM 1308 (CHEM II)
- ZOOL 2403 (HUMAN A&P)
- CE 2301 OR ME 2301
- Oral Communication*

4th Semesters

- MATH 3350 (HIGH MATH - ENGR)
- CHEM 1107 (CHEM I LAB)
- IE 3301 (ENG R DES PROD)
- ME 3311 (MATERIALS)
- EMS POLITICS

5th Semesters

- IE 3351 (MANUF ENGR)
- IE 3341 OR MATH 3342 (STATISTICS *)
- IE 3361 (WORK ANALYSIS)
- ME 3322 (THERMODYNAMICS)
- POLS 1301 (AM GOV ORG)

6th Semesters

- IE 3311 (DETER OPER RES)
- IE 3346 (QUAL ASSURANCE)
- IE 3361 (MANUF SYS CTRL)
- ECE 3301 (GEN ELEC ENGR #)
- Language, Philosophy, & Culture **^

7th Semesters

- IE 4351 (DETER OPER RES)
- IE 4316 (SIM SYS MODEL)
- IE 4361 (DES FOR PEOPLE)
- IE 3244 (ENGR DATA ANAL)
- Engineering Elective ^

8th Semesters

- IE 4333 (SENIOR DESIGN)
- IE ELECTIVE †
- IE ELECTIVE †
- IE ELECTIVE †
- Engineering Elective ^
- Language, Philosophy, & Culture **^

TOTAL HOURS: 130.

* Choose from the university’s core curriculum.
† IE Electives from the following courses: IE 4320, 4331, 4352, 4362, 4363, ENGR 3301.
‡ Engineering Electives from the following courses:
CE 3302 or ME 2302; CE 3303 or ME 3403; CE 3305 or ME 3370 or CH E 3315; CH E 3326 or ME 3371; ECE 3306; ME 3322.
** Choose a course that also fulfills the university’s multicultural requirement.
# PHYS 2401 may be substituted.