

Industrial Engineering B.S.I.E.

4- Year Plan of Study

Items marked with a ☒ are critical for the student to remain on track for graduation.

Notes

The Plan of Study is a static review of the degree. Connect with your major advisor for a personalized path toward graduation.

Potential Entry Level Job Titles:

Data Analyst • Health Care Optimization Manager • Manufacturing Product and Process Improvement Engineer • Transportation Systems Analysis and Design Analyst • Logistics Director in U.S. Military

Potential Entry Level Salary Range:

\$60,000 - \$72,000

Semester 1 - Fall

Crit	Course/Requirement	Credits
<input checked="" type="checkbox"/>	CHM 2045 - General Chemistry I	3
<input type="checkbox"/>	CHM 2045L - General Chemistry I Lab	1
<input checked="" type="checkbox"/>	EGN 3000 - Foundations of Engineering	0
<input type="checkbox"/>	EGN 3000L - Foundations of Engineering Lab	3
<input type="checkbox"/>	ENC 1101 - Composition I	3
<input checked="" type="checkbox"/>	MAC 2311 - Calculus I	4
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 2 - Spring

Crit	Course/Requirement	Credits
<input type="checkbox"/>	AMH 2010 OR AMH 2020 OR POS 2041 (SCIV/SGES)	3
<input type="checkbox"/>	ENC 1102 - Composition II	3
<input checked="" type="checkbox"/>	MAC 2312 - Calculus II	4
<input checked="" type="checkbox"/>	PHY 2048 - General Physics I	3
<input type="checkbox"/>	PHY 2048L - General Physics I Laboratory	1
<input type="checkbox"/>	Gen-Ed State Humanities (SGEH)	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 3 - Summer		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	Consider pursuing an Education Abroad, Internship, Community Engagement, or Research Experience in the Summer term.	0
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 4 - Fall		
Crit	Course/Requirement	Credits
<input checked="" type="checkbox"/>	EGN 2440 - Prob & Statistics With Calc	3
<input checked="" type="checkbox"/>	EGN 4450 - Introduction to Linear Systems	2
<input checked="" type="checkbox"/>	MAC 2313 - Calculus III	4
<input checked="" type="checkbox"/>	PHY 2049 - General Physics II	3
<input type="checkbox"/>	PHY 2049L - General Physics II Laboratory	1
<input type="checkbox"/>	Apply for Progression to Upper Division	0
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 5 - Spring		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	EGN 3311 - Statics	3
<input type="checkbox"/>	EGN 3373 - Electrical Systems I	3
<input type="checkbox"/>	EGN 3365 - Materials Engineering I	3
<input type="checkbox"/>	EGN 3433 OR MAP 2302	3
<input type="checkbox"/>	Gen-Ed USF Humanities (UGEH)	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 6 - Summer

Crit	Course/Requirement	Credits
<input checked="" type="checkbox"/>	EGN 1113 - Intro to Design Graphics	3
<input checked="" type="checkbox"/>	EGN 2615 - Economical Analysis Of Systems	3
<input type="checkbox"/>	Major Elective	3
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 7 - Fall

Crit	Course/Requirement	Credits
<input type="checkbox"/>	EIN 4241 - Human-Machine Systems Eng	3
<input type="checkbox"/>	EIN 4621 - Manufacturing Processes	3
<input type="checkbox"/>	ENC 3246 -Communication for Engineers	3
<input checked="" type="checkbox"/>	ESI 4007 - Engineering Programming	3
<input checked="" type="checkbox"/>	ESI 4312 - Foundations of Optimization	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 8 - Spring

[illegible]

Semester 9 - Summer		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	Major Elective	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 10 - Fall		
Crit	Course/Requirement	Credits
<input checked="" type="checkbox"/>	EIN 4890 - Senior Design Project I	3
<input type="checkbox"/>	ESI 4244 - Design Of Experiments	3
<input type="checkbox"/>	ESI 4523 - Systems Simulation	3
<input checked="" type="checkbox"/>	ESI 4606 - Analytics I - Data Science	3
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Semester 11 - Spring		
Crit	Course/Requirement	Credits
<input type="checkbox"/>	EIN 4601C - Automation & Robotics	3
<input type="checkbox"/>	EIN 4891 - Senior Design Project II	3
<input type="checkbox"/>	ESI 4607 - Analytics II: Applied Data Sci	3
<input type="checkbox"/>	Major Elective	3
<input type="checkbox"/>	Apply for Graduation	0
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		