

**2024-2025 Industrial Engineering Degree
Requirements Program of Study (128 Hours)**

FALL SEMESTER 1		
Course No.		Hours
GEP 1 - ENC 1101	Composition I	3
MAC 2311	Calculus I	4
CHS 1440	Chemistry for Engineers	4
EGS 1006C	Intro to Engr. Profession	1
Hours		12

FALL SEMESTER 4		
Course No.		Hours
MAC 2313	Calculus III	4
EGN 3310	Engr Analysis - Statics	3
STA 3032	Prob & Stat for Engrs	3
GEP 4 - Historical Foundation		3
Hours		13

FALL SEMESTER 7		
Course No.		Hours
EIN 4360	Facilities Plan. & Work Design	4
ESI 4221	Empirical Methods IE	3
EGN 3373	Principles of Electrical Engr.	3
ESI 4312	Deterministic Methods for OR	3
ESI 3933	IE Career Advising	0
Hours		13

FALL SEMESTER 10		
Course No.		Hours
EIN 4391	Digital Manufacturing for IE's	3
ESI 4234	Quality Engineering	3
CAI 4823	Artificial Intelligence for IE's	3
Approved Technical Elective		3
Hours		12

Total Fall SCH 50

SPRING SEMESTER 2		
Course No.		Hours
GEP 2 - ENC 1102	Composition II	3
MAC 2312	Calculus II	4
PHY 2048 Lecture & PHY 2048L Lab - Physics I		4
EGN 1007C	Engr. Concepts & Methods	1
Hours		12

SPRING SEMESTER 5		
Course No.		Hours
MAS 3105	Matrix and Linear Algebra	4
EGN 3321	Engr Analysis - Dynamics	3
EIN 3351	Eng Econ Anal & Cost Engr	3
GEP 5 - Cultural Foundation		3
Hours		13

SPRING SEMESTER 8		
Course No.		Hours
ESI 4313	Stochastic Methods for OR	3
ESI 4523	Systems Simulation	3
EIN 4243	Human Engineering	3
EIN 4333	Production and Distribution	3
Hours		12

Total Spring SCH 50

SPRING SEMESTER 11		
Course No.		Hours
EIN 4891C	IE Senior Design Project	4
EIN 4517	Systems Engineering	3
EGS 4624	Engr Innovation & Leadership	3
Approved Technical Elective		3
Hours		13

SUMMER SEMESTER 3		
Course No.		Hours
COP 3223C	Intro to C Programming.	3
GEP 3 - SPC 1603 or SPC 1608		3
GEP 10 - Social Foundation		3
Hours		9

SUMMER SEMESTER 6		
Course No.		Hours
PHY 2049 Lecture & PHY 2049L Lab - Physics II		4
GEP 9 - Social Foundation		3
MAP 2302	Differential Equations	3
Hours		10

SUMMER SEMESTER 9		
Course No.		Hours
GEP 12 - Science Foundation		3
GEP 6 - Cultural/Historical Foundation		3
EGN 3343	Thermodynamics	3
Hours		9

Total Summer SCH 28

Grand Total SCH 128

Revised: 2/26/2024