Updated 2021-2024

Mapping of program outcomes to curriculum	1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environment al, and economic factors.	3. An ability to comm unicat e effecti vely with a range of audie nces a	4. An ability to recogniz e ethical and professio nal responsi bilities in engineeri ng situation s and make informed judgmen ts, which must consider the impact of engineeri ng solutions in global, economi c, environ mental, and societal contexts.	5. An ability to functi on effecti vely on a team whose memb ers togeth er provid e leader ship, create a collab orativ e and inclus ive environment, establi sh goals, plan tasks, and meet object ives	6. An ability to develop and conduct appropriate experiment ation, analyze and interpret data, and use engineering judgment to draw conclusions .	7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.
Engineering Core							
ENGR 200 - Introduction to Engineering and Design		I	I	I	Ι		
ENGR 210 - Manufacturing Materials and Processes	I				I	Ι	
ENGR 215 - Computational Methods in Engineering	I						I
ENGR 220 - Statics Program Required Courses	D						I

ENGR 320 - Engineering	D	D			I		
Economics							
INDE 330 - Engineering Statistics	D					I	
and Probability							
INDE 340 - Design of Engineering	D					D	
Experiments							
INDE 360 - Operations	D						D
Research							
INDE 390 - Human Factors		D	D	D	D		
and Work Methods							
INDE 410 - Facility Planning,	D	D			D		D
Design and						M/A	
Material Handling							
INDE 420 - Discrete Event	D		D			D	D
Simulation							
INDE 430 - Design of	D				D		
Work Systems							
INDE 440 - Sustainable	D	D	D		D		D
Production and Supply Chain							
Systems							
INDE 450 - Systems Quality &	M	D				M	D
Reliability							
INDE 460 - Service and	M/A	M/A	D	D	D	M	M
Manufacturing Systems							
Modeling							
INDE 492 - Senior Design Units: 4	M	M	M/A	M/A	M/A	M	M/A

Evaluation of outcomes for Industrial Engineering I=introduction, D=development, M=mastering A=assessed 2023-2024 ABET (EAC) Outcomes

- 1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- 2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- 3. An ability to communicate effectively with a range of audiences.
- 4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- 5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- 6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- 7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.