

Department: Department of Mechanical and Industrial Engineering
Program: BS in Industrial Engineering

Skill Set	Professional Application	Delivery of Skill Set Courses, extracurricular activities, etc. in which the skill set is introduced (I), reinforced (R), or mastered (M)
Core Skill: Critical Thinking & Problem-Solving Skills	Academic and non-academic careers as professors, mentors, researchers and entrepreneurs	IEEN 2310 (I); IEEN 3325 (I, R); IEEN 3315 (R, M)
Core Skills: Analytical and Computing skills	Work on new problems related to data and real world applications	IEEN 3321 (I, R); IEEN 3315 (I, R); IEEN 4328 (R, M)
Core Skills: Communication and inter-personal skills, public engagement	Effective communication with personnel with varying background	IEEN 4332 (I); IEEN 4163 (I, R); IEEN 4264 (M)
Discipline Based Skills: Apply Industrial Engineering fundamental knowledge in industrial and systems engineering problems while being ethical	Developing new solutions related to industrial and systems engineering, ethical and social responsibility	IEEN 4163 (I, R); IEEN 4316 (I, R); IEEN 3341 (I, R); IEEN 4264 (M);
Discipline Based Skills: Data collection, design of experiment, statistical analysis, and project management.	Team work, organization, project and time management	IEEN 2310 (I); IEEN 4354 (I, R); IEEN 3310 (R, M); IEEN 4332 (R, M);