

**Bachelor of Science 2023-24 AY**  
**Industrial Engineering Technology**  
**CIP Code: 150612**

**Major Code IE00**  
**Cr Hrs**

<b>General Education CORE 42 Requirements 42*</b>		<b>35</b>
Area 1A	Social & Behavioral Sciences	6
Area 1B	Civic Engagement	3
Area 2A	Written Communication	6
Area 2B	Oral Communication	3
Area 3A	Natural Science Non-Lab	3
Area 3B	Natural science With Lab (PHYS160)	
Area 4	Mathematics (met by MATH 130, 140 or 150)	
Area 5A	Humanities	6
Area 5B	Fine Arts	3
Area 5C	Global Competencies	3
Area 5D	Health and Wellness	2
<b>UE 100</b>	<b>University Experience** (IET 105)</b>	
<b>Industrial Engineering Technology Prerequisites</b>		<b>7-9</b>
MATH 130 (3) or MATH 140 (5) or MATH 150 (5)		3-5
PHYS 160	Elementary College Physics w/Lab*	4
<b>Industrial Engineering Technology Requirements</b>		<b>63</b>
MET 100	Introduction to Machine Tool Processes	3
IET 105	Essential Professional Skills	3
IET 110	Engineering Graphics I	3
IET 115	Engineering Graphics II	3
MET 200	Computer Numerical Control	3
IET 205	Computer Applications & Cost Analysis	3
MET 240	Engineering Materials	3
IET 271	Engineering Technology Seminar I	0
IET 272	Engineering Technology Seminar II	0
IET 300	Engineering Economics	3
IET 301	Project Management Fundamentals & Applications	3
MET 302	CNC Project & Cost Analysis	2
IET 305	Basic Electricity & Electronics	3
IET 310	Production Planning and Control	3
IET 320	Applied Statistical Quality Control	3
IET 350	Industrial Supervision	3
IET 355	Work Measurement/Ergonomics	3
IET 380	Principles of Lean	3
IET 383	Power Generation Inc. Hydraulics & Pneumatics	3
IET 425	Design of Experiments	3
IET 450	Facilities Management and Planning	3
IET 470	Six Sigma Methodology	3
IET 471	Senior Design	3
IET 494	Career Success	1
<b>Select one from:</b>		<b>5-8</b>
MATH 150	Calculus with Analytical Geometry I(5)***	
MATH 302	Applied Calculus (3) AND MATH 135 Trigonometry (3)	
MATH 302	Applied Calculus (3) AND MATH 140 Algebra & Trig (5)	

<b>Select one from:</b>		<b>3</b>
IET 315	Probability & Statistics for Engineers	
MATH 310	Elementary Statistics	
GB 321	Business Statistics	
<b>General Electives as needed to total 120 hours</b>		<b>2-7</b>
<b>Total Hours</b>	Must include at 39 upper division (300-400) hrs	<b>120</b>

\* Gen. Ed. Core 42 requirements Area 3B met by PHYS 160, UE 100 requirement met by IET 105  
MATH 130 or MATH 140 or MATH 150 grade of "C" or better and meets gen ed area 4