**Bachelor of Science    2022-23 AY**
**Industrial Engineering Technology                     Major Code IE00**
**CIP Code: 150612                                           Cr Hrs**

| | | |
|---|---|---|
| **General Education CORE 42 Requirements 42\*** | | **35** |
| 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  CHEM 140 | |
| Area 3B | Natural science With Lab (PHYS160) | |
| Area 4 | Mathematics (MATH 150 could meet) | 3 |
| Area 5A | Humanities | 6 |
| Area 5B | Fine Arts | 3 |
| Area 5C | Global Competencies | 3 |
| Area 5D | Health and Wellness | 2 |
| **UE 100** | **First Year Experience\*\* (IET 105)** | |
| **Industrial Engineering Technology Requirements** | | **71** |
| CHEM 140 | General Chemistry I\*\*\* | 3 |
| CHEM 141 | General Chemistry I Lab | 2 |
| PHYS 160 | Elementary College Physics w/Lab\* | 4 |
| 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 204 | Industrial Statics and Strength of Materials | 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 |
| MET 301 | Modern Project Management | 1 |
| 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 | 1 |
| IET 494 | Career Success | 1 |
| **Select one from:** | | **5-8** |
| 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) | |
| **Select one from:** | | **3** |
| IET 315 | Probability & Statistics for Engineers | |
| MATH 310 | Elementary Statistics | |
| GB 321 | Business Statistics | |
| **General Electives as needed to total 120 hours** | | **3-6** |
| **Total Hours** | Must include at 39 upper division (300-400) hrs | **120** |

\* Gen. Ed. Core 42 requirements Area 3B met by PHYS 160

MATH 130 or MATH 140 or MATH 150 grade of "C" or better and meets gen ed area 4

CHEM 140 would meet Area 3A and MATH 150 would meet Area 4