

BACHELOR OF SCIENCE IN ENGINEERING MANAGEMENT

Required Courses (128 Semester Hours)

| Courses Required Outside of Engineering - General Education (72 hrs) | | | |
|--|--|---|--|
| ACTG 110 | Intro to Financial Accounting | 3 | |
| ACTG 111 | Intro to Managerial Accounting | 3 | |
| CHEM 112 | General College Chemistry I | 5 | |
| ECON 120 | Principles of Microeconomics | 3 | |
| ECON 121 | Principles of Microeconomics | 3 | |
| ENGL 160 | Academic Writing I: Writing for Academic & Public Contexts | 3 | |
| ENGL 161 | Academic Writing II: Writing for Inquiry & Research | 3 | |
| FIN 300 | Corporate Finance | 3 | |
| MATH 180 | Calculus I | 5 | |
| MATH 181 | Calculus II | 5 | |
| MATH 210 | Calculus III | 3 | |
| MATH 310 | Applied Linear Algebra | 3 | |
| MGMT 340 | Intro to Organizations | 3 | |
| MGMT 350 | Social and Legal Environment of Business | 3 | |
| MGMT 495 | Competitive Strategy | 4 | |
| MKTG 360 | Principles of Marketing | 3 | |
| PHYS 141 | General Physics I (Mechanics) | 4 | |
| PHYS 142 | General Physics II (Electricity and Magnetism) | 4 | |
| Class selection can be found in pages 49-60 | Exploring World Cultures | 3 | |
| | Understanding the Creative Arts | 3 | |
| | Understanding the Past | 3 | |

| Courses Required in the College of Engineering (52 hrs) | | | |
|---|---|---|--|
| ENGR 100 | Engineering Orientation | 0 | |
| CME 201 | Statics | 3 | |
| CME 203 | Strength of Materials | 3 | |
| CS 108 | FORTTRAN Programming for Engineers | 3 | |
| IE 201 | Financial Engineering | 3 | |
| IE 341 | Ergonomics & Human Factors | 3 | |
| IE 342 | Probability and Statistics for Engineers | 3 | |
| IE 345 | Regression Application and Forecasting in Engineering | 3 | |
| IE 365 | Work Productivity Analysis | 4 | |
| IE 380 | Manufacturing Process Principles | 3 | |
| IE 446 | Quality Control and Reliability | 3 | |
| IE 461 | Safety Engineering | 3 | |
| IE 463 | Plant Layout and Materials Handling | 3 | |
| IE 464 | Virtual Automation | 3 | |
| IE 466 | Production Planning and Inventory Control | 3 | |
| IE 467 | Discrete Event Computer Simulation Application | 3 | |
| IE 471 | Operations Research I | 3 | |
| IE 472 | Operations Research II | 3 | |
| IE 499 | Professional Development Seminar | 0 | |

| Non-IE, Non-Business Electives (3 hrs) | | | |
|--|--|--|--|
| | | | |

| Free Elective (1hr) | | | |
|---------------------|--|--|--|
| | | | |