Current 8-Semester Plan for the Bachelor of Science in Industrial Engineering

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| **Semester 1** |  |  |
| GNEG 1111 | Introduction to Engineering I | 1 |
| MATH 2554 | Calculus I  | 4 |
| CHEM 1103 | University Chemistry I | 3 |
| ENGL 1013 | Composition I | 3 |
| XXXX XXX3 | U.S. History or Governmentt Elective | 3 |
|  |  | **14** |
|  |  |  |
| **Semester 2** |  |  |
| GNEG 1121 | Introduction to Engineering II | 1 |
| MATH 2564 | Calculus II | 4 |
| PHYS 2054 | University Physics I | 4 |
| XXXX XXX4 | FEP Science Elective | 4 |
| ENGL 1033 | Technical Composition II | 3 |
|  |  | **16** |
|  |  |  |
| **Semester 3** |  |  |
| INEG 2001 | Industrial Engineering Seminar | 1 |
| INEG 2103 | Introduction to Industrial Engineering | 3 |
| INEG 2214  | Computing Methods for Industrial Engineers I | 4 |
| INEG 2313 | Applied Probability and Statistics for Engineers I | 3 |
| MATH 2574 | Calculus III | 4 |
| XXXX XXX3 | IE Science Elective | 3 |
|  |  | **18** |
|  |  |  |
| **Semester 4** |  |  |
| INEG 2223 | Computing Methods for Industrial Engineers II | 3 |
| INEG 2333 | Applied Probability and Statistics for Engineers II | 3 |
| INEG 2413 | Engineering Economic Analysis | 3 |
| MATH 2584 | Elementary Differential Equations | 4 |
| ACCT 2403 | Accounting Fundamentals for Planning and Control | 3 |
|  |  | **16** |
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| **Semester 5** |  |  |
| INEG 3623 | Simulation | 3 |
| INEG 3714 | Work Methods and Ergonomics | 4 |
| INEG XXX3 | Technical Elective | 3 |
| MEEG 2303 | Introduction to Materials | 3 |
| XXXX XXX3 | Fine Arts Elective | 3 |
|  |  | **16** |
|  |  |  |
| **Semester 6** |  |  |
| INEG 3513 | Manufacturing Processes | 3 |
| INEG 3613 | Introduction to Operations Research | 3 |
| INEG XXX3 | Technical Elective | 3 |
| MEEG 2003 | Statics | 3 |
| ECON 2143 | Basic Economics: Theory and Practice | 3 |
|  |  | **15** |
|  |  |  |
| **Semester 7** |  |  |
| INEG 4433 | Systems Engineering and Management | 3 |
| INEG 4553 | Production Planning and Control | 3 |
| INEG 4911 | Industrial Engineering Capstone Experience I | 1 |
| INEG XXX3 | Technical Elective | 3 |
| INEG XXX3 | Technical Elective | 3 |
| XXXX XXX3 | Social Sciences Elective | 3 |
|  |  | **16** |
|  |  |  |
| **Semester 8** |  |  |
| INEG 4923 | Industrial Engineering Capstone Experience II | 3 |
| XXXX XXX3 | Technical Elective | 3 |
| XXXX XXX3 | Technical Elective | 3 |
| XXXX XXX3 | Social Sciences Elective | 3 |
| XXXX XXX3 | Humanities Elective | 3 |
|  |  | **15** |
|  |  |  |
|  | **Total Hours** | **126** |

Proposed 8-Semester Plan for the Bachelor of Science in Industrial Engineering

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| **Semester 1** |  |  |
| GNEG 1111 | Introduction to Engineering I | 1 |
| MATH 2554 | Calculus I  | 4 |
| CHEM 1103 | University Chemistry I | 3 |
| ENGL 1013 | Composition I | 3 |
| XXXX XXX3 | U.S. History or Govt Elective | 3 |
|  |  | **14** |
|  |  |  |
| **Semester 2** |  |  |
| GNEG 1121 | Introduction to Engineering II | 1 |
| MATH 2564 | Calculus II | 4 |
| PHYS 2054 | University Physics I | 4 |
| XXXX XXX4 | FEP Science Elective | 4 |
| ENGL 1033 | Technical Composition II | 3 |
|  |  | **16** |
|  |  |  |
| **Semester 3** |  |  |
| INEG 2001 | Industrial Engineering Seminar | 1 |
| INEG 2103 | Introduction to Industrial Engineering | 3 |
| INEG 2214  | Computing Methods for Industrial Engineers I | 4 |
| INEG 2314 | Statistics for Industrial Engineers I | 4 |
| MATH XXX3 | Math Elective (2574, 2584, 2603, 3083) | 3 |
|  |  | **15** |
|  |  |  |
| **Semester 4** |  |  |
| INEG 2223 | Computing Methods for Industrial Engineers II | 3 |
| INEG 2323 | Probability and Stochastic Processes for Industrial Engineers | 3 |
| INEG 2413 | Engineering Economic Analysis | 3 |
| INEG 2613 | Introduction to Operations Research | 3 |
| ACCT 2403 | Accounting Fundamentals for Planning and Control | 3 |
|  |  | **15** |
|  |  |  |
| **Semester 5** |  |  |
| INEG 3333 | Statistics for Industrial Engineers II | 3 |
| INEG 3443 | Project Management | 3 |
| INEG 3624 | Simulation | 4 |
| INEG 3543 | Facility Logistics | 3 |
| ECON 2143 | Basic Economics: Theory and Practice | 3 |
|  |  | **16** |
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| **Semester 6** |  |  |
| INEG 3553 | Production Planning and Control | 3 |
| INEG 3533 | Transportation Logistics | 3 |
| INEG 3714 | Work Methods and Ergonomics | 4 |
| INEG 3833 | Introduction to Database Concepts for Industrial Engineers | 3 |
| XXXX XXX3 | Social Sciences Elective | 3 |
|  |  | **16** |
|  |  |  |
| **Semester 7** |  |  |
| INEG 4433 | Systems Engineering and Management | 3 |
| INEG 4913 | Industrial Engineering Capstone Experience I | 3 |
| INEG XXX3 | Technical Elective | 3 |
| XXXX XXX3 | Technical Elective | 3 |
| XXXX XXX3 | Social Sciences Elective | 3 |
|  |  | **15** |
|  |  |  |
| **Semester 8** |  |  |
| INEG 4924 | Industrial Engineering Capstone Experience II | 4 |
| INEG XXX3 | Technical Elective | 3 |
| XXXX XXX3 | Technical Elective | 3 |
| XXXX XXX3 | Fine Arts Elective | 3 |
| XXXX XXX3 | Humanities Elective | 3 |
|  |  | **16** |
|  |  |  |
|  | **Total Hours** | **123** |