San Jose State University

**College of Engineering**

**Department Industrial & Systems Engineering**

**Major Form for B. S. in Industrial & Systems Engineering**

Name (Last, First M.): Student ID:

Minimum number of semester units for the degree: 120 Bulletin: \_\_\_\_\_\_ Proposed Semester of Graduation:

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|  **ENGINEERING COMMONCORE (minimum 11 units)** |
| **Dept** | **No.** | **Title** | **Unit** | **Grade** | **Dept** | **No.** | **Title** | Unit | **Grade** |
| CmpE | 30 | Computer Engineering I | 3 |  | ME | 20 | Design & Graphics | 2 |  |
|  |  |  |  |  |  |  |  |  |  |
| Engr  | 10  | Engr. Process & Tools | 3 |  | MatE | 25 | Intro to Materials | 3 |  |
|  |  |  |  |  |  |  |  |  |  |
| **REQUIRED COURSES (minimum 50 units)** |
| ISE | 102 | Engr Economic Systems | 3 |  | ISE | 151 | Managing Engineering | 3 |  |
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| ISE | 105 | Systems Engr & Activity Costing | 3 |  | ISE | 155 | Supply Chain Engineering | 3 |  |
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| ISE | 115 | Comp Integrated Manufacturing | 3 |  | ISE | 167 | System Simulation | 3 |  |
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| ISE | 120 | Work Methods Design & Measrmt | 3 |  | ISE | 170 | Operations Research | 3 |  |
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| ISE | 130 | Engineering Statistics | 3 |  | ISE | 194 | Data Analytics Workshop | 1 |  |
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| ISE | 131 | Statistical Process Contr. & Impvmt | 3 |  | ISE | 195A | Senior ISE Design I | 1 |  |
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| ISE | 135 | Design of Experiments | 3 |  | ISE | 195B | Senior ISE Design II | 3 |  |
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| ISE | 140 | Operation Planning & Control | 3 |  | Engr | 100W | Engineering Reports | 3 |  |
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| ISE  | 142 | Service Systems Engr & Mgmt | 3 |  | CmpE | 131 | Software Engineering I | 3 |  |
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| **APPROVED TECHNICAL ELECTTIVES (minimum 6 units, all tech electives must be completed with a grade of C- or better)** |
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| **Courses Required in Preparation for the Major – Mathematics, Chemistry, Physics (minimum 29 units)**  |
| Math | 30 | Calculus I | 3 |  | Phys | 50 | Mechanics | 4 |  |
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| Math | 31 | Calculus II | 4 |  | Phys | 51 | Electricity & Magnetism | 4 |  |
|  |  |  |  |  |  |  |  |  |  |
| Math | 32 | Calculus III | 3 |  | Chem | 1A | General Chemistry | 5 |  |
|  |  |  |  |  |  |  |  |  |  |
| Math | 123 | Linear Alg & Differential Equations | 3 |  | Engl | 1B | Argument and Analysis | 3 |  |
|  |  |  |  |  |  |  |  |  |  |

(Student's Signature)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_will have completed all the requirements for the Bachelor of Science in ISE after: (a) successful completion of the above work. (b) An audit of the student’s transcript of record to verify that all-appropriate data has been entered accurately. (c) A minimum 2.0 GPA in all required courses has been achieved. (d) A minimum 2.0 GPA in all required & technical electives combined has been achieved. (e) A minimum 2.0 GPA in all required courses&technical electives taken at SJSU has been achieved.

[Signed] ­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [Signed] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Major Advisor. Department Chair

[Date] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [Date] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_