# B.S. in Manufacturing Engineering 4-Year Flowchart

## 2013-15 Catalog

### Freshman
- **Fall**: General Education Courses
  - ENGL 149 (4)
- **Winter**: General Education Courses
  - ENGL 149 (4)

### Sophomore
- **Fall**: General Education Courses
  - ENGL 149 (4)
- **Spring**: General Education Courses
  - ENGL 149 (4)

### Junior
- **Fall**: General Education Courses
  - ENGL 149 (4)
- **Winter**: General Education Courses
  - ENGL 149 (4)

### Senior
- **Fall**: General Education Courses
  - ENGL 149 (4)
- **Winter**: General Education Courses
  - ENGL 149 (4)

### Courses

#### Required Courses
- ENGL 149 (4)
- ENGL 149 (4)
- ENGL 149 (4)
- ENGL 149 (4)

#### Electives
- ENGL 149 (4)
- ENGL 149 (4)
- ENGL 149 (4)
- ENGL 149 (4)

### Notes:
- **General Education Courses**: Any order acceptable, but certain courses must be completed. Refer to online catalog for details.
- **Technical Elective**: Must be completed after Junior standing.
- **Total Credits**: 12 if ENGL 149 is taken, 14 if ENGL 156 is taken.

### Legend
- **Course Title**: Required courses
- **Support (78)**: Optional courses
- **GE Area**: General Education courses

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### Technical Writing Options
- **ENGL 133/124 (4)**
- **ENGL 149 (4)**

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### Graduation Writing Requirement
- **GWR**: Must be completed by the end of the senior year.

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### Credits
- **Total**: 192 credits

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### References
- [California Polytechnic State University](https://www.calpoly.edu)
- [Manufacturing Engineering Department](https://www.calpoly.edu/department/manufacturing-engineering)

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