



This roadmap is a recommended semester-by-semester plan of study for this major. However, courses and milestones designated as critical (in boldface and shaded areas) must be completed in the semester listed to ensure a timely graduation.

| Course Subject and Title                            | Credit Hours | Min. Grade | Important Notes  |
|---|--------------|------------|--|
| <b>Semester One: [13 Credit Hours]</b>              |              |            |  |
| <b>IERT 22010 Computer Integrated Manufacturing</b> | <b>3</b>     |            |  |
| <b>MERT 12000 Engineering Drawing</b>               | <b>3</b>     |            |  |
| EERT 22003 Technical Computing                      | 3            |            |  |
| ENG 11011 College Writing I                         | 3            |            |  |
| US 10097 Destination Kent State: FYE                | 1            |            | Not required of transfer students with 25 credits  |
| <b>Semester Two: [17 Credit Hours]</b>              |              |            |  |
| <b>IERT 22006 Economic Decision Analysis</b>        | <b>3</b>     |            |  |
| <b>MERT 12001 Computer Aided Drafting</b>           | <b>3</b>     |            |  |
| <b>MERT 12004 Manufacturing Processes</b>           | <b>3</b>     |            |  |
| COMM 15000 Introduction to Human Communication      | 3            |            |  |
| MATH 11012 Intuitive Calculus                       | 3            |            |  |
| MATH 11022 Trigonometry                             | 2            |            |  |
| <b>Semester Three: [18 Credit Hours]</b>            |              |            |  |
| <b>EERT 22014 Microprocessors and Robotics</b>      | <b>4</b>     |            |  |
| <b>IERT 22000 Statistical Process Controls</b>      | <b>4</b>     |            |  |
| ENG 20002 Introduction to Technical Writing         | 3            |            |  |
| PHY 12201 Technical Physics I                       | 3            |            |  |
| Kent Core Social Sciences or Humanities             | 4            |            | Visit <a href="http://www.kent.edu/catalog">www.kent.edu/catalog</a> and search "Kent Core" for course lists |
| <b>Semester Four: [17 Credit Hours]</b>             |              |            |  |
| <b>MERT 22009 Robotics and Flexible Automation</b>  | <b>3</b>     |            |  |
| PHY 12202 Technical Physics II                      | 4            |            |  |
| Technical Electives                                 | 10           |            | See note below   |

### Graduation Requirements Summary

| Minimum Total Hours | Minimum   |             |
|---------------------|-----------|-------------|
|                     | Major GPA | Overall GPA |
| 65                  | 2.0       | 2.0         |

**Note 1: Technical electives (10 credit hours), choose from the following:**

|  |   |   |   |
|--|---|---|---|
| COMT 21008 Computer Methods in Science and Engineering | 3 | IERT 22003 Supervision and Labor Relations  | 5 |
|  |   | IERT 22004 Facilities Engineering           | 2 |
| EERT 22004 Digital Systems                             | 4 | IERT 22005 Production and Inventory Control | 2 |
| IERT 12005 Applications in CAD                         | 2 | IERT 22008 Taguchi Process Improvement      | 3 |
| IERT 22001 Motion and Time Study                       | 3 |   |   |