

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

| Critical | Course Subject and Title | Credit Hours | Min. Grade | Major GPA | Attribute | Notes |
|---------------------------------------|--|--------------|------------|-----------|-----------|-------|
| Semester One [16 Credits] | | | | | | |
| ! | IERT 22010 Computer Integrated Manufacturing | 3 | | ■ | | |
| ! | MERT 12000 Engineering Drawing | 3 | | ■ | | |
| | EERT 22003 Technical Computing | 3 | | | | |
| | MATH 11010 Algebra for Calculus | 3 | | | KMC | |
| | US 10097 Destination Kent State: First Year Experience ¹ | 1 | | | | |
| | Kent Core Requirement | 3 | | | | |
| Semester Two [18 Credits] | | | | | | |
| ! | IERT 22006 Economic Decision Analysis | 3 | | ■ | | |
| ! | MERT 12001 Computer-Aided Drafting | 3 | | ■ | | |
| ! | MERT 12004 Manufacturing Processes | 3 | | ■ | | |
| | COMM 15000 Introduction to Human Communication | 3 | | | KAD | |
| | MATH 11012 Intuitive Calculus | 3 | | | KMC | |
| | MATH 11022 Trigonometry | 3 | | | KMC | |
| Semester Three [16-18 Credits] | | | | | | |
| ! | EERT 22014 Microprocessors and Robotics | 3 | | ■ | | |
| ! | IERT 22000 Statistical Process Control | 4 | | ■ | | |
| | ENG 20002 Introduction to Technical Writing | 3 | | | | |
| | PHY 12201 Technical Physics I (3) <i>or</i> PHY 13001 General College Physics I (4) <i>and</i> PHY 13021 General College Physics Laboratory I (1) | 3 - 5 | | | KBS | |
| | Kent Core Requirement | 3 | | | | |
| Semester Four [18-20 Credits] | | | | | | |
| ! | MERT 22009 Engineering Technology Project | 2 | | ■ | | |
| | PHY 12202 Technical Physics II (4) <i>or</i> PHY 13002 General College Physics II (4) <i>and</i> PHY 13022 General College Physics Laboratory II (1) <i>or</i> PHY 13012 College Physics II (2) <i>and</i> PHY 13022 General College Physics Laboratory II (1) | 3-5 | | | KBS | |
| | Technical Electives ² | 10 | | ■ | | |
| | Kent Core Requirement | 3 | | | | |

Graduation Requirements Summary

| Minimum Total Hours | Minimum | |
|---------------------|-----------|-------------|
| | Major GPA | Overall GPA |
| 69 | 2.000 | 2.000 |

1. US 10097 is not required of transfer students with 25 credits (excluding College Credit Plus and dual-enrollment) or students age 21+ at time of admission.

2. Technical Electives (10 credit hours)

| Choose from the following: | |
|--|--|
| COMT 21008 Computer Methods in Science and Engineering (3) | EERT 22004 Digital Systems (4) |
| IERT 12005 Applications in Computer-Aided Design (2) | IERT 22001 Motion and Time Study (3) |
| IERT 22003 Supervision and Labor Relations (5) | IERT 22004 Facilities Engineering (2) |
| IERT 22005 Production and Inventory Control (2) | IERT 22008 Taguchi Process Improvement (3) |

University Requirements: Applied and technical associate degree-seeking students must fulfill selected Kent Core (general education requirements). For more information about this requirement, please read the following section in the University Catalog: Kent Core – www.kent.edu/catalog/kent-core.

Attribute Legend: DD Diversity–Domestic; DG Diversity–Global; ELR Experiential Learning; KAD Kent Core Additional; KBS Kent Core Basic Sciences; KCM Kent Core Composition; KFA Kent Core Fine Arts; KHU Kent Core Humanities; KMC Kent Core Mathematics and Critical Reasoning; KSS Kent Core Social Sciences; WIC Writing Intensive