

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 | Upper Division | Min. Grade | Important Notes |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|------------|---------------------------------------------------------------------------------------------|
| Semester One: [16 Credit Hours] | | | | |
| MATH 11010 Algebra for Calculus | 3 | | | Enrollment based on placement tests; fulfills Kent Core Mathematics and Critical Reasoning |
| TECH 13580 Engineering Graphics I | 3 | | | |
| TECH 10001 Information Technology | 3 | | | |
| PSYC 11762 General Psychology | 3 | | | Fulfills Kent Core Social Sciences |
| US 10097 Destination Kent State: FYE | 1 | | | Not required for transfer students with 25 credits |
| Kent Core Requirement | 3 | | | See Kent Core Summary on page 2 |
| Semester Two: [14 Credit Hours] | | | | |
| MATH 11022 Trigonometry | 2 | | | |
| TECH 20002 Materials and Processes | 3 | | | |
| TECH 23581 Computer-Aided Engineering Graphics | 3 | | | |
| ECON 22060 Principles of Microeconomics | 3 | | | Fulfills Kent Core Social Sciences |
| Kent Core Requirement | 3 | | | See Kent Core Summary on page 2 |
| Semester Three: [17-18 Credit Hours] | | | | |
| ENG 20002 Introduction to Technical Writing | 3 | | | |
| PHY 13001 General College Physics I <i>and</i> PHY 13021 General College Physics Lab I <i>or</i> PHY 12201 Technical Physics I <i>and</i> Kent Core Basics Sciences | 5-6 | | | Fulfills Kent Core Basic Sciences; PHY 13001 and 13021, if selected, must be taken together |
| MIS 24163 Principles of Management | 3 | | | Prerequisite: sophomore standing |
| TECH 11071 Woods Technology I | 3 | | | |
| TECH 20001 Energy/Power | 3 | | | |
| Semester Four: [14-15 Credit Hours] | | | | |
| PHY 13002 General College Physics II <i>and</i> PHY 13022 General College Physics Lab II <i>or</i> PHY 12202 Technical Physics II | 4-5 | | | Fulfills Kent Core Basic Sciences; PHY 13002 and 13022, if selected, must be taken together |
| TECH 21021 Survey of Electricity and Electronics | 4 | | | |
| TECH 31015 Construction Technology | 3 | ■ | | |
| COMM 15000 Introduction to Human Communication | 3 | | | Fulfills Kent Core Additional |
| Semester Five: [15 Credit Hours] | | | | |
| TECH 31016 Manufacturing Technology | 3 | ■ | | |
| TECH 32002 Materials and Processes II | 3 | ■ | | |
| Kent Core Requirement | 9 | | | See Kent Core Summary on page 2 |
| Semester Six: [15 Credit Hours] | | | | |
| MIS 24056 Fundamentals of Business Statistics <i>or</i> MIS 34180 Human Resource Management <i>or</i> MIS 44150 Total Quality Management | 3 | | | |
| TECH 31000 Cultural Dynamics of Technology | 3 | ■ | C | Fulfills writing-intensive course requirement |
| TECH Elective (upper division) | 3 | ■ | | |
| General Electives (lower or upper division) | 6 | | | Should fulfill diversity requirement if not satisfied earlier |

Critical requirements are boldface in shaded areas

| Course Subject and Title | Credit Hours | Upper Division | Min. Grade | Important Notes |
|----------------------------------------------------------|--------------|----------------|------------|----------------------------------------------------------------------------------------------------|
| Semester Seven: [17 Credit Hours] | | | | |
| TECH 31087 Design for Technology | 3 | ■ | | |
| TECH 43800 Applied Engineering Technology Seminar | 2 | ■ | | Capstone course; prerequisite: senior standing |
| PSYC 31773 Industrial Psychology | 3 | ■ | | |
| TECH Electives (upper division) | 6 | ■ | | |
| Kent Core Requirement | 3 | | | See Kent Core Summary on page 2 |
| Semester Eight: [15 Credit Hours] | | | | |
| TECH Electives (upper division) | 6 | ■ | | |
| General Electives (4 credits must be upper division) | 9 | ■ | | Number of credits required depends on meeting minimum 123 credit hours and 39 upper-division hours |

Graduation Requirements Summary

| Minimum Total Hours | Minimum Upper-Division Hours | Minimum Kent Core Hours | Diversity Course Global / Domestic | Writing-Intensive | Minimum Major GPA | Minimum Overall GPA |
|---------------------|------------------------------|-------------------------|------------------------------------|-------------------|-------------------|---------------------|
| 123 | 39 | 36 | Kent Core or General Electives | TECH 31000 | 2.25 | 2.0 |

Kent Core Summary

| Kent Core Categories | Important Notes | Remaining Credit Hours |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------|
| Additional (6 credit hours) <i>Must be selected from two Kent Core categories</i> | 3 credits are fulfilled in this major with COMM 15000 | 3 |
| Basic Sciences (6-7 credit hours) <i>Must include one laboratory</i> | Fulfilled in this major with PHY 13011, PHY 13012, PHY 13021 and PHY 13022 | 0 |
| Composition (6-8 credit hours) <i>ENG 11002, 11011, 21011; HONR 10197, 10297</i> | Enrollment based on placement test | 6-8 |
| Humanities and Fine Arts (9 credit hours) <i>Minimum one course from humanities in Arts and Sciences category and minimum one course from fine arts category</i> | May fulfill domestic diversity requirement | 9 |
| Mathematics and Critical Reasoning (3-5 credit hours) | Fulfilled in this major with MATH 11010. | 0 |
| Social Sciences (6 credit hours) <i>Must be selected from two curricular areas</i> | Fulfilled in this major with ECON 22060 and PSYC 11762 | 0 |

Kent Core

Students must complete a minimum 36 credit hours of the Kent Core. Certain courses required in programs and in student's major field may also fulfill the Kent Core. Honors equivalents shall satisfy the Kent Core. None of the courses on the Kent Core list may be taken with a pass/fail grade. Visit www.kent.edu/catalog/kent-core for course list.

Diversity Course Requirement

Students must complete a two-course diversity requirement, consisting of one with a domestic (U.S.) focus and one with a global focus. One course must come from the Kent Core. The second course may be taken as a second Kent Core, within a major or minor, or as a general elective; or, with dean's approval, by completing one semester of study in another country. Visit www.kent.edu/catalog/diversity for course list.

Writing-Intensive Course Requirement

Students must complete a one-course writing-intensive requirement in their major and earn minimum C (2.00) grade. Visit www.kent.edu/catalog/wic for course list.

Upper-Division Requirement

Students must complete a minimum 39 upper-division (numbered 30000 to 49999) credit hours of coursework. Programs in the College of Arts and Sciences require a minimum of 42 hours of upper-division coursework.

