

**Bachelor of Science in Engineering, Interdisciplinary Engineering Option
(128 credits):**

- | | | |
|-----------|---|-------------------|
| 1. | English and Communication | 9 credits |
| | ENGL 10400 English Composition I | |
| | COM 11400 Fundamentals of Speech | |
| | COM/ ENGL 30700 Written and Oral Communication for Engineers | |
| 2. | Science and Mathematics | 32 credits |
| | CHM 11500 General Chemistry | |
| | PHYS 15200 Mechanics | |
| | PHYS 26100 Heat, Electricity, and Optics | |
| | MA 16300 Calculus and Analytic Geometry I | |
| | MA 16400 Calculus and Analytic Geometry II | |
| | MA 26100 Multivariate Calculus | |
| | MA 26400 Differential Equations | |
| | MA 26500 Linear Algebra | |
| 3. | Humanities and Social Sciences | 12 credits |
| | <i>Required</i> | |
| | PHIL 32400 Ethics for the Professions | |
| | POL 30500 Technology and Society | |
| | <i>The balance (6 credits) is selected by the student and advisor to give the student an opportunity to explore areas within the humanities and social sciences:</i> | |
| | <i>Subject areas not acceptable are skills courses such as writing and speaking, accounting, industrial management, personal finance, ROTC, and personnel administration. Language courses are acceptable only as part of a six credit sequence. Credit is not allowed for a student's native language.</i> | |
| 4. | General Engineering | 14 credits |
| | ENGR 15100 Software Tools for Engineers | |
| | ENGR 18600 Engineering Freshman Seminar | |
| | ENGR 19000 Elementary Engineering Design | |
| | ECE 31200/M E 31100 Engineering Project Management | |
| | ECE 42900/M E 42900 Senior Engineering Design I | |
| | ECE 43900/M E 43900 Senior Engineering Design II | |
| 5. | Electrical and Computer Engineering | 20 credits |
| | ECE 15200 Programming for Engineers | |
| | ECE 20100 Linear Circuit Analysis I | |
| | ECE 20200 Linear Circuit Analysis II | |
| | ECE 20700 Electronic Measurement Techniques | |
| | ECE 21800 Linear Circuits Laboratory II | |
| | ECE 23300 Microcomputers in Engineering | |
| | ECE 30100 OR Signals and Systems | |
| | M E 32500 Dynamics of Physical Systems | |
| | ECE 38400/M E 48500 Linear Control Systems | |
| 6. | Mechanical Engineering | 9 credits |
| | M E 27100 Basic Mechanics I: Statics | |
| | M E 27500 Basic Mechanics II: Dynamics | |
| | M E 30500 General Thermodynamics I | |
| 7. | Materials Science | 3 credits |
| | MSE 200 Materials Science | |
| 8. | Technical Electives | 29 credits |
| | Chosen in cooperation with advisor, approved by the Engineering Undergraduate Committee. | |