COMPUTER ENGINEERING, B.S.

Computer engineers design, develop, analyze, research, and manufacture hardware, software, and systems that process, store, and convey digital information. These systems include personal computers, workstations, mainframe computers, and embedded digital systems. Embedded systems consist of one to many computers within other products such as aircraft, automobiles, communication switching systems, networking components, biomedical instrumentation, and industrial automation systems. These systems are characterized by the use of digital electronic hardware and software in performing useful tasks. Computer software in combination with digital integrated circuits provides the foundation for the current revolution in computers and communications. This focus on software and digital hardware distinguishes the computer engineer from the electrical engineer.

ELECTRICAL ENGINEERING AND COMPUTER ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

Our graduates should be engaged in activities such as:

1. Employment in industry, government, academia, or non-profit using their degree knowledge or skills for professional functions such as teaching, research and development, quality control, technical marketing, intellectual property management, or sales. Graduates may eventually reach a leadership position supervising others.
2. Continuing education through self-study or short courses and workshops through their employer, local or online educational institutions, or attendance at professional events such as conferences.
3. Taking a principal role in starting a new business or product line.
4. Pursuing a postgraduate degree.

HOW TO GET IN

ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison need to indicate an engineering major as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements at the end of the first year to guarantee advancement in that program.

CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet the course and credit requirements for admission to engineering degree granting classifications specified in the general college requirements. The requirements are the minimum for admission consideration. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers group information sessions for students to learn about the cross-campus transfer process.

OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college.

The College of Engineering has dual degree programs with select four-year UW System campuses. Eligible dual degree applicants are not subject to the 80 credit limit.

SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree students might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

REQUIREMENTS

UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements section of the Guide.
General Education
• Breadth—Humanities/Literature/Arts: 6 credits
• Breadth—Natural Science: 4 to 6 credits, consisting of
  one 4- or 5-credit course with a laboratory component;
  or two courses providing a total of 6 credits
• Breadth—Social Studies: 3 credits
• Communication Part A & Part B *
• Ethnic Studies *
• Quantitative Reasoning Part A & Part B *

* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

SUMMARY OF REQUIREMENTS
The following curriculum applies to students who were admitted to the computer engineering degree program (classification changed to CMPE) in fall 2017 or later.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Mathematics</td>
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<td>Science</td>
<td></td>
<td>21</td>
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<tr>
<td>Computer Engineering Core</td>
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<tr>
<td>Computer Engineering Advanced Electives</td>
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<tr>
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<td>Liberal Studies</td>
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<td>15</td>
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<td>Free Elective</td>
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MATHEMATICS

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<tr>
<td>MATH 221</td>
<td>Calculus and Analytic Geometry I</td>
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<tr>
<td>or MATH 217</td>
<td>Calculus with Algebra and Trigonometry II</td>
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</tr>
<tr>
<td>or MATH 275</td>
<td>Topics in Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 222</td>
<td>Calculus and Analytic Geometry 2</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 276</td>
<td>Topics in Calculus II</td>
<td></td>
</tr>
<tr>
<td>MATH 234</td>
<td>Calculus—Functions of Several Variables 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH/COMP SCI 240</td>
<td>Introduction to Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>or MATH/COMP SCI/STAT 475</td>
<td>Introduction to Combinatorics</td>
<td></td>
</tr>
<tr>
<td>Probability/Statistics Elective (select one)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>STAT 311</td>
<td>Introduction to Theory and Methods of Mathematical Statistics I</td>
<td></td>
</tr>
<tr>
<td>MATH/STAT 431</td>
<td>Introduction to the Theory of Probability</td>
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<tr>
<td>E C E 331</td>
<td>Introduction to Random Signal Analysis and Statistics</td>
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1 MATH 375 and MATH 376 taken in sequence will fulfill the requirement for MATH 234.

SCIENCE

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>COMP SCI 300</td>
<td>Programming II</td>
<td>3</td>
</tr>
<tr>
<td>COMP SCI 400</td>
<td>Programming III</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 201</td>
<td>General Physics</td>
<td>1</td>
</tr>
<tr>
<td>or PHYSICS 207</td>
<td>A Modern Introduction to Physics</td>
<td>5</td>
</tr>
<tr>
<td>or PHYSICS 247</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYSICS 202</td>
<td>General Physics</td>
<td>5</td>
</tr>
<tr>
<td>or PHYSICS 208</td>
<td>A Modern Introduction to Physics</td>
<td></td>
</tr>
<tr>
<td>or PHYSICS 248</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td>5-9</td>
</tr>
<tr>
<td>CHEM 109</td>
<td>Advanced General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 103</td>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 104</td>
<td>General Chemistry II</td>
<td></td>
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</tbody>
</table>

Total Credits | 21-25 |

1 Students may also fulfill this requirement by taking E M A 201 Statics and E M A 202 Dynamics or E M A 201 Statics and M E 240 Dynamics.

COMPUTER ENGINEERING CORE

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>E C E 203</td>
<td>Signals, Information, and Computation</td>
<td>3</td>
</tr>
<tr>
<td>E C E 210</td>
<td>Introductory Experience in Electrical Engineering</td>
<td>2</td>
</tr>
<tr>
<td>E C E 219</td>
<td>Analytical Methods for Electromagnetics Engineering</td>
<td>1</td>
</tr>
<tr>
<td>E C E 220</td>
<td>Electrodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>E C E 230</td>
<td>Circuit Analysis</td>
<td>4</td>
</tr>
<tr>
<td>E C E/COMP SCI 252</td>
<td>Introduction to Computer Engineering</td>
<td></td>
</tr>
<tr>
<td>E C E 270</td>
<td>Circuits Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>E C E 315</td>
<td>Introductory Microprocessor Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>E C E 340</td>
<td>Electronic Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>E C E/COMP SCI 352</td>
<td>Digital System Fundamentals</td>
<td></td>
</tr>
<tr>
<td>E C E 353</td>
<td>Introduction to Microprocessor Systems</td>
<td>3</td>
</tr>
<tr>
<td>E C E/COMP SCI 354</td>
<td>Machine Organization and Programming</td>
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<tr>
<td>E C E 551</td>
<td>Digital System Design and Synthesis</td>
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Total Credits | 32 |

COMPUTER ENGINEERING ADVANCED ELECTIVES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Electronic Circuits Elective</td>
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<td>3</td>
</tr>
<tr>
<td>E C E 342</td>
<td>Electronic Circuits II</td>
<td></td>
</tr>
<tr>
<td>E C E 447</td>
<td>Applied Communications Systems</td>
<td></td>
</tr>
<tr>
<td>E C E 541</td>
<td>Analog MOS Integrated Circuit Design</td>
<td></td>
</tr>
<tr>
<td>E C E 542</td>
<td>Introduction to Microelectromechanical Systems</td>
<td></td>
</tr>
<tr>
<td>E C E 548</td>
<td>Integrated Circuit Design</td>
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</table>

Total Credits | 19 |
Computer Engineering, B.S.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ECE 555</td>
<td>Digital Circuits and Components</td>
</tr>
<tr>
<td>ECE/COMPSCI 506</td>
<td>Software Engineering</td>
</tr>
<tr>
<td>COMPSCI 536</td>
<td>Introduction to Programming Languages and Compilers</td>
</tr>
<tr>
<td>COMPSCI 537</td>
<td>Introduction to Operating Systems</td>
</tr>
<tr>
<td>COMPSCI 564</td>
<td>Database Management Systems: Design and Implementation</td>
</tr>
<tr>
<td>ECE 453</td>
<td>Embedded Microprocessor System Design</td>
</tr>
<tr>
<td>ECE 454</td>
<td>Mobile Computing Laboratory</td>
</tr>
<tr>
<td>ECE 554</td>
<td>Digital Engineering Laboratory</td>
</tr>
<tr>
<td>CMPE Elective I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 537</td>
<td>Communication Networks</td>
</tr>
<tr>
<td>ECE/COMPSCI 552</td>
<td>Introduction to Computer Architecture</td>
</tr>
<tr>
<td>ECE 553</td>
<td>Testing and Testable Design of Digital Systems</td>
</tr>
<tr>
<td>ECE 556</td>
<td>Design Automation of Digital Systems</td>
</tr>
<tr>
<td>CMPE Elective II</td>
<td>3</td>
</tr>
<tr>
<td>Select from ECE 399 - ECE 699</td>
<td></td>
</tr>
<tr>
<td>Select from COMPSCI 400 - COMPSCI 699</td>
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Total Credits 16-17

1 ECE 454 Mobile Computing Laboratory and COMPSCI 407 Foundations of Mobile Systems and Applications cannot both be taken for degree credit.

PROFESSIONAL ELECTIVES

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ECE 1</td>
<td>Cooperative Education Program</td>
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<tr>
<td>(One co-op credit can count towards professional electives.)</td>
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<tr>
<td>ECE/PHYSICS 235</td>
<td>Introduction to Solid State Electronics</td>
</tr>
<tr>
<td>ECE 320</td>
<td>Electrodynamics II</td>
</tr>
<tr>
<td>ECE 330</td>
<td>Signals and Systems</td>
</tr>
<tr>
<td>ECE 331</td>
<td>Introduction to Random Signal Analysis and Statistics</td>
</tr>
<tr>
<td>ECE 332</td>
<td>Feedback Control Systems</td>
</tr>
<tr>
<td>ECE 334</td>
<td>State Space Systems Analysis</td>
</tr>
<tr>
<td>ECE 335</td>
<td>Microelectronic Devices</td>
</tr>
<tr>
<td>ECE 342</td>
<td>Electronic Circuits II (may be used if not already used as an Electronic Circuits Advanced Elective)</td>
</tr>
<tr>
<td>ECE 355</td>
<td>Electromechanical Energy Conversion</td>
</tr>
<tr>
<td>ECE 356</td>
<td>Electric Power Processing for Alternative Energy Systems</td>
</tr>
<tr>
<td>ECE courses numbered 399 and higher</td>
<td></td>
</tr>
<tr>
<td>COMPSCI courses numbered 400 and higher</td>
<td></td>
</tr>
<tr>
<td>MATH 319</td>
<td>Techniques in Ordinary Differential Equations</td>
</tr>
<tr>
<td>MATH 320</td>
<td>Linear Algebra and Differential Equations 1</td>
</tr>
<tr>
<td>MATH 321</td>
<td>Applied Mathematical Analysis</td>
</tr>
<tr>
<td>MATH 322</td>
<td>Applied Mathematical Analysis</td>
</tr>
<tr>
<td>MATH 340</td>
<td>Elementary Matrix and Linear Algebra 1</td>
</tr>
<tr>
<td>MATH 341</td>
<td>Linear Algebra</td>
</tr>
<tr>
<td>MATH courses numbered 400 and higher</td>
<td></td>
</tr>
<tr>
<td>STATS courses numbered 400 and higher</td>
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</tr>
<tr>
<td>Any biological sciences course that is designated as intermediate or advanced level</td>
<td></td>
</tr>
<tr>
<td>Any physical science course that is designated as intermediate or advanced level</td>
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</tr>
<tr>
<td>Any natural science course that is designated as advanced level, except that math, computer sciences, and statistics courses must follow the above criteria</td>
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</tr>
<tr>
<td>Engineering courses numbered 300 and higher that are not ECE or cross-listed with ECE</td>
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</tr>
<tr>
<td>Up to six credits of Professional Electives can be taken from School of Business classes numbered 300 and higher.</td>
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</tr>
<tr>
<td>DS 501</td>
<td>Special Topics (Wearable Technologies)</td>
</tr>
<tr>
<td>DANCE 560</td>
<td>Current Topics in Dance: Workshop (Making Digital Lighting Controls)</td>
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1 Students may only earn degree credit for MATH 320 or MATH 340, not both.

COMMUNICATION SKILLS

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<tbody>
<tr>
<td>ENGL 100</td>
<td>Introduction to College Composition</td>
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<tr>
<td>or LSC 100</td>
<td>Science and Storytelling</td>
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<tr>
<td>or COMARTS 100</td>
<td>Introduction to Speech Composition</td>
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<tr>
<td>or COMARTS 181</td>
<td>Elements of Speech-Honors Course</td>
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<tr>
<td>or ESL 118</td>
<td>Academic Writing II</td>
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<td>EDP 397</td>
<td>Technical Communication</td>
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Total Credits 6

LIBERAL STUDIES ELECTIVES

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<tbody>
<tr>
<td>College of Engineering Liberal Studies Requirements</td>
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<tr>
<td>Complete requirements (<a href="http://guide.wisc.edu/undergraduate/engineering/#requirements">http://guide.wisc.edu/undergraduate/engineering/#requirements</a>)</td>
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Total Credits 15

1 All liberal studies credits must be identified with the letter H, S, L, or Z. Language courses are acceptable without the letter and are considered humanities. Note: See an ECE advisor and/or the EE Curriculum Guide (https://www.engr.wisc.edu/department/electrical-
TOTAL DEGREE CREDITS: 120

UNIVERSITY DEGREE REQUIREMENTS

Total Degree
To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

Residency
Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

Quality of Work
Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

LEARNING OUTCOMES

1. (a) an ability to apply knowledge of mathematics, science, and engineering.

2. (b) an ability to design and conduct experiments, as well as to analyze and interpret data.

3. (c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

4. (d) an ability to function on multidisciplinary teams.

5. (e) an ability to identify, formulate, and solve engineering problems.

6. (f) an understanding of professional and ethical responsibility.

7. (g) an ability to communicate effectively.

8. (h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.

9. (i) a recognition of the need for, and an ability to engage in life-long learning.

10. (j) a knowledge of contemporary issues.

11. (k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

FOUR-YEAR PLAN

SAMPLE FOUR-YEAR PLAN

First Year

<table>
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<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 221</td>
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<td>CHEM 109</td>
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<td>PHYSICS 201</td>
<td>5</td>
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<tr>
<td>E C E/COMP SCI 252</td>
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<td>E C E 210</td>
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<tr>
<td>Liberal Studies Elective</td>
<td>3</td>
<td>Communications A</td>
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Second Year

<table>
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<tbody>
<tr>
<td>E C E 203</td>
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<td>MATH/COMP SCI 240</td>
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<td>E C E/COMP SCI 352</td>
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<td>E C E 219</td>
<td>1</td>
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<tr>
<td>MATH 234</td>
<td>4</td>
<td>E C E 230</td>
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<tr>
<td>PHYSICS 202</td>
<td>5</td>
<td>E C E 270</td>
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<td>COMP SCI 300</td>
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<tr>
<td>Liberal Studies Elective</td>
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Third Year

<table>
<thead>
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<th>Spring</th>
<th>Credits</th>
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<tbody>
<tr>
<td>E C E 353</td>
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<td>E C E 315</td>
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<tr>
<td>E C E 220</td>
<td>3</td>
<td>E C E 551</td>
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<tr>
<td>E C E 340</td>
<td>3</td>
<td>Circuits Elective</td>
<td>3</td>
</tr>
<tr>
<td>E C E/COMP SCI 354</td>
<td>3</td>
<td>Probability and Statistics Elective</td>
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</tr>
<tr>
<td>COMP SCI 400</td>
<td>3</td>
<td>E P D 397</td>
<td>3</td>
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<tr>
<td>Liberal Studies Elective</td>
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Fourth Year

<table>
<thead>
<tr>
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<th>Spring</th>
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<tbody>
<tr>
<td>E C E 453, 454, or 554</td>
<td>4</td>
<td>COMP SCI 536, 537, or 564</td>
<td>3-4</td>
</tr>
<tr>
<td>Computer Engineering Elective</td>
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<td>Computer Engineering Elective</td>
<td>3</td>
</tr>
<tr>
<td>Professional Elective</td>
<td>3</td>
<td>Professional Elective</td>
<td>3</td>
</tr>
<tr>
<td>Liberal Studies Elective</td>
<td>3</td>
<td>Liberal Studies Elective</td>
<td>3</td>
</tr>
<tr>
<td>Professional Elective</td>
<td>3</td>
<td>Free Elective</td>
<td>2</td>
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<tr>
<td></td>
<td>16</td>
<td></td>
<td>14-15</td>
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</table>

Total Credits 120-121

ADVISING AND CAREERS

ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.
ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

PEOPLE

PROFESSORS
Hagness (chair)
Anderson
Barmish
Behdad
Booske
Boston
Botez
Gubner (associate chair for operations)
Hitchon
Hu
Jahns
Jiang*
Knezevic
Lesieutre (associate chair for undergraduate studies)
Lipasti
Ma
Mawst
Nowak
Ramanathan
Sayeed
Sethares
Shohet
van der Weide
Van Veen (associate chair for graduate and online studies)
Venkataramanan
Wendt

ASSOCIATE PROFESSORS
Davoodi
Milenkovic

ASSISTANT PROFESSORS
Farrell
Fawaz
Jog
Kats
Kim
Krishnaswamy
Lessard
Li
Loh
Ludois

Papailiopoulos
Roald
San Miguel
Severson
Velten
Yu

FACULTY ASSOCIATES
Allie
Fredette
Hoffman
Krachey
Milicic

*For scholarship information, please contact Professor Jiang.

ACCREDITATION

Accreditation.


Note: Undergraduate Program Educational Objectives and Student Outcomes are made publicly available at the Departmental website. (In this Guide, the program’s Student Outcomes are designated by our campus as "Learning Outcomes.")