

# COMPUTER ENGINEERING, BS

As a computer engineering major, you will learn how to design and manufacture computer hardware using the latest semiconductor chip technologies, which form the foundation of everything from automobiles to household appliances to defense systems. In addition, you will learn how to design and analyze systems that process, store and convey digital information, and to develop efficient software for them. Examples of systems that computer engineering majors explore include wearable devices, mobile computing devices like smartphones and tablets, personal computers, servers deployed in the cloud, and many types of embedded systems. You can also specialize in emerging technologies such as semiconductor engineering (<https://guide.wisc.edu/undergraduate/engineering/electrical-computer-engineering/computer-engineering-bs/computer-engineering-semiconductor-engineering-bs/>) or machine learning and data science (<https://guide.wisc.edu/undergraduate/engineering/electrical-computer-engineering/computer-engineering-bs/computer-engineering-machine-learning-data-science-bs/>) and earn a named option on your transcript.

## HOW TO GET IN

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#### ADMISSION TO THE COLLEGE AS A FIRST-YEAR STUDENT

Students applying to UW-Madison (<https://www.admissions.wisc.edu/apply/>) need to indicate an engineering major (<https://engineering.wisc.edu/degrees-programs/undergraduate/>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission means that students get to start their college career in the engineering program of their choice and have access to engineering-specific resources and facilities. Students who are directly admitted need to meet progression requirements (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/>) at the end of the first year to guarantee advancement in that program.

#### CURRENT UW-MADISON STUDENTS (CROSS-CAMPUS TRANSFER TO ENGINEERING)

Requirements	Details
How to get in	Application required. Meeting the requirements listed below does not guarantee admission. ( <a href="https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students">https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students</a> ( <a href="https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/">https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/</a> ))

#### Application restrictions

- Students may apply a maximum of two times.
- Students who have earned more than 72 course credits at UW-Madison (as indicated on the UW-Madison transcript) at the time of application are not eligible to apply for admission to the College of Engineering. Course credits in progress at the time of application are not included in the COE Credit Limit.
- Students may apply to only one engineering degree program per admissions cycle.
- Students who meet course/credit requirements and have a Core GPA below 2.500 would not be considered for admission in their selected engineering degree program (major) without an appeal process. All graded UW-Madison courses referenced in the Foundational Courses List and any degree program engineering courses level 200 or higher will be counted in the Core GPA (excludes E P D, INTEREGR, special topics, independent study, and seminar courses). All graded UW-Madison courses count in the Overall GPA. For one and only one of these core courses that a student has repeated, the more recent of the two grades will be used in the calculation of Core and Overall GPAs for admission purposes. Students may not be considered for admission if on academic probation for GPA reasons at time of review.

Credits required to get in 24 graded credits completed at UW-Madison, including at least one full-time (12 credit) semester. English as a Second Language course credits count toward the 24 credit minimum.

Courses required to get in Engr Comm 1 (Comm A) requirement taken on a graded basis at UW-Madison. If the Comm A requirement has been satisfied through placement test, AP/IB, or transfer credit, then a liberal studies course of at least 3 credits (breadth designation of Humanities, Literature, or Social Sciences) must be taken on a graded basis at UW-Madison.

Math course sequence through MATH#160;222.

Four foundational courses completed on a graded basis at UW-Madison, as defined in the Foundational Courses List below.

#### Foundational courses list

**Four Foundational Courses must be completed at UW-Madison as defined in 1. and 2.**

##### 1. Math Foundation

A minimum of two math courses numbered 221 or higher; one math course 300 level or higher; or calculus sequence completed through MATH 234. Excludes MATH 228, MATH/HIST SCI 473, special topics, independent study, seminar, pass/fail, and credit/no credit courses.

##### 2. Engineering Foundation

A minimum of two courses as defined below:

**Chemical Engineering:**

- (i) one course must be CHEM 104 or higher
- (ii) one course must be PHYSICS 201/E M A 201 or higher

If the above two course requirements are completed with transfer or test credit, select from additional engineering foundation courses in (ii) below.

**Aerospace Engineering, Biomedical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Engineering Mechanics, Engineering Physics, Environmental Engineering, Geological Engineering, Industrial Engineering, Materials Science and Engineering, Mechanical Engineering, Nuclear Engineering:**

- (i) one course must be CHEM 104 or higher OR PHYSICS 201/E M A 201 or higher
- (ii) one other engineering foundation course from the following subject codes:

- Chemistry
- E M A 201, E M A 202, E M A 303
- PHYSICS 201 or higher
- Statistics, calculus-based
- COMP SCI 200, COMP SCI 220, COMP SCI 300 or higher, excluding COMP SCI 304
- excludes special topics, independent study, seminar, pass/fail, and credit/no credit courses

**3. Additional foundational course options, if applicable**

If the math and engineering foundational courses for the degree program are complete, then degree program engineering courses 200 level or higher can be taken to complete the Four Foundational Courses requirement. Excludes EPD, InterEGR, special topics, independent study, seminar, pass/fail, and credit/no credit courses.

**Additional considerations**

Cross-campus admission is selective. The admissions committee considers applicants' grades/grade trends, academic rigor, and personal statement. The College of Engineering offers an online information tutorial and advising (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for students to learn about the cross-campus transfer process.

Semester	Deadline to apply	Decision notification timeline
To apply for a fall start	Mid May	Late June
To apply for a spring start	Late December/Early January	Late January
To apply for a summer start	This program does not accept applications to start in the summer.	

**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 (<https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. Transfer admission to the College of

Engineering is selective. 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 engineering major.

The College of Engineering has dual degree transfer agreements with select four-year UW System campuses and a transfer agreement with Madison College. Eligible students in COE's transfer agreements automatically meet progression at the point of transfer.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer & Academic Program Manager in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu).

**SECOND BACHELOR'S DEGREE**

The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>) 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 REQUIREMENTS**

All undergraduate students must complete both the following Core General Education (Core GenEd) and University Degree and Quality of Work requirements. The requirements below apply to students whose first term at UW–Madison or whose earliest post-high school college attendance at any institution is Summer 2026 or later.

Students whose first term at UW–Madison or whose earliest post-high school college attendance at any institution occurred before Summer 2026 should refer to the archived Guide (<https://guide.wisc.edu/archive/>) for the requirements that apply to them.

**CORE GENERAL EDUCATION (CORE GENED) REQUIREMENTS**

Civics & Perspectives 3 credits of Civics & Perspectives coursework.

Communication & Literacy 6 credits of Communication & Literacy coursework. This requirement may be partially satisfied by a qualifying placement test score. More information: <https://go.wisc.edu/qualifyingenglishplacement> (<https://go.wisc.edu/qualifyingenglishplacement/>)

Humanities & Arts 6 credits of Humanities & Arts coursework.

Mathematics & Quantitative Reasoning 6 credits of Mathematics & Quantitative Reasoning coursework. This requirement may be partially satisfied by a qualifying placement test score. More information: <https://go.wisc.edu/qualifyingmathplacement> (<https://go.wisc.edu/qualifyingmathplacement/>)

Natural Science & Wellness Complete both:

- 6 credits of Natural Science & Wellness or Natural Science & Wellness + Laboratory coursework.
- one course must be in Natural Science & Wellness + Laboratory coursework.

Social & Behavioral Science 3 credits of Social & Behavioral Science coursework.

Total Credits 30 credits.

For more information see the policy (<https://policy.wisc.edu/library/UW-1095/>).

## UNIVERSITY DEGREE AND QUALITY OF WORK REQUIREMENTS

All undergraduate degree recipients must complete the following minimum requirements. Requirements for some programs will exceed these requirements; see program requirements for additional information.

Total Degree 120 degree credits.

Residency Complete 30 credits in residence. A course is considered "in residence" if it is taken when in undergraduate degree-seeking status and:

- is offered by UW-Madison and completed on the UW-Madison campus or at an approved off-site location, or
- is offered by UW-Madison in an online or distance format, or is completed during participation in a UW-Madison study abroad/study away program.

Quality of Work Achieve at least the minimum grade point average specified by the school, college, and/or academic program.

Math Demonstrate minimal mathematics competence by:

- placing above MATH#160;96, or
- successfully completing MATH#160;96, or
- successfully completing a more advanced mathematics course such as MATH#160;112, MATH#160;113, MATH#160;114, MATH#160;141, MATH#160;211, or MATH#160;221.

English Language If required to take the UW-Madison English as a Second Language Assessment Test (MSN-ESLAT), demonstrate minimal English language competence by:

- earning credit for ESL#160;118, or
- achieving a qualifying MSN-ESLAT placement test score.

Language Complete one:

- 2 high school units of a single language other than English, or
- one course with the second semester Language designation.

Major Declaration Declare and complete the requirements for at least one major.

## COLLEGE OF ENGINEERING DEGREE GRANTING PROGRAMS' COMMON REQUIREMENTS

The College of Engineering departments collaborated and adopted a common set of guidelines in their degree granting program (major) requirements. Engineering departments incorporate specific coursework within their curricula to meet these guidelines. Students should refer to specific coursework detailed below the Summary of Requirements.

## COLLEGE OF ENGINEERING DEGREE GRANTING PROGRAMS' COMMON REQUIREMENTS

Communication All College of Engineering majors require two levels of communication coursework:

- Engineering Communication 1: one course with the Communication A designation or satisfaction of Communication A based on eligible UW Placement Score.
- Engineering Communication 2: each major specifies one course (e.g. INTEREGR#160;397) which also carries the Communication B designation.

Quantitative Reasoning All College of Engineering majors require a math sequence that incorporates two levels of quantitative reasoning.

Humanities or Literature All College of Engineering majors require a minimum of 6 credits with the Humanities or Literature breadth designations. See major Liberal Studies Electives Requirement below.

Social Sciences All College of Engineering majors require a minimum of 3 credits with the Social Sciences breadth designation. See major Liberal Studies Electives Requirement below.

Natural Sciences All College of Engineering majors require specific coursework that incorporates a minimum of 6 credits with the Biological, Natural, or Physical Science breadth designations.

Ethnic Studies All College of Engineering majors require at least one course of at least 3 credits with the Ethnic Studies designation. This course may also be used to satisfy the Social Sciences or Humanities or Literature requirement.

## COMPUTER ENGINEERING, BS CURRICULUM

This curriculum applies to students admitted to the degree program this Guide academic year. Curricular requirements for students admitted in previous semesters are available in the Archive (<https://guide.wisc.edu/archive/>) section of Guide.

### SUMMARY OF REQUIREMENTS

Code	Title	Credits
Mathematics		19
Science		20-21
Computer Engineering Core		33
Computer Engineering Advanced Electives		16
Professional Electives		9
Communication Skills		6
Liberal Studies Electives		15
Free Elective		2
<b>Total Credits</b>		<b>120</b>

### MATHEMATICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4
MATH 234	Calculus--Functions of Several Variables <sup>1</sup>	4

MATH/ COMP SCI 240	Introduction to Discrete Mathematics	3
or MATH/ COMP SCI/ STAT 475	Introduction to Combinatorics	
Probability/Statistics Elective (select one)		3
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
MATH/STAT 431	Introduction to the Theory of Probability	
E C E 331	Introduction to Random Signal Analysis and Statistics	
<b>Total Credits</b>		<b>19</b>

<sup>1</sup> MATH 375 and MATH 376 taken in sequence will fulfill the requirement for MATH 234.

## SCIENCE

Code	Title	Credits
COMP SCI 300	Programming II	3
COMP SCI 400	Programming III	3
PHYSICS 201	General Physics <sup>1</sup>	5
or PHYSICS 207	General Physics	
or PHYSICS 247	A Modern Introduction to Physics	
PHYSICS 202	General Physics	5
or PHYSICS 208	General Physics	
or PHYSICS 248	A Modern Introduction to Physics	
Select one of the following:		4-5
CHEM 109	Advanced General Chemistry	
CHEM 103	General Chemistry I	
CHEM 104	General Chemistry II	
<b>Total Credits</b>		<b>20-21</b>

<sup>1</sup> Students may also fulfill this requirement by taking E M A 201 Statics and E M A 202 Dynamics.

## COMPUTER ENGINEERING CORE

Code	Title	Credits
E C E 203	Signals, Information, and Computation	3
E C E 210	Introductory Experience in Electrical Engineering	2
E C E 222	Electrodynamics I	4
E C E 230	Circuit Analysis	4
E C E/ COMP SCI 252	Introduction to Computer Engineering	3
E C E 270	Circuits Laboratory I	1
E C E 315	Introductory Microprocessor Laboratory	1
E C E 340	Electronic Circuits I	3
E C E/ COMP SCI 352	Digital System Fundamentals	3
E C E 353	Introduction to Microprocessor Systems	3

E C E/ COMP SCI 354	Machine Organization and Programming	3
E C E 551	Digital System Design and Synthesis	3
<b>Total Credits</b>		<b>33</b>

## COMPUTER ENGINEERING ADVANCED ELECTIVES

Code	Title	Credits
<b>Electronic Circuits Elective</b>		
Select one of the following:		3
E C E 342	Electronic Circuits II	
E C E 447	Applied Communications Systems	
E C E 541	Analog MOS Integrated Circuit Design	
E C E 542	Introduction to Microelectromechanical Systems	
E C E 548	Integrated Circuit Design	
E C E 555	Digital Circuits and Components	
<b>Systems Software Elective <sup>1</sup></b>		
Select one of the following:		3
E C E/ COMP SCI 506	Software Engineering	
COMP SCI 536	Introduction to Programming Languages and Compilers	
COMP SCI 537	Introduction to Operating Systems	
COMP SCI 564	Database Management Systems: Design and Implementation	
<b>Capstone Design</b>		
Select one of the following:		4
E C E 453	Embedded Microprocessor System Design	
E C E 454	Mobile Computing Laboratory <sup>2</sup>	
E C E 455	Capstone Design in Electrical and Computer Engineering	
E C E 554	Digital Engineering Laboratory	
<b>CMPE Elective I</b>		
Select one of the following:		3
E C E 537	Communication Networks	
E C E/ COMP SCI 552	Introduction to Computer Architecture	
E C E 553	Testing and Testable Design of Digital Systems	
E C E 556	Design Automation of Digital Systems	
<b>CMPE Elective II</b>		
Select one of the following:		3
Select from E C E 399 - E C E 699		
Select from COMP SCI 400 - COMP SCI 699 <sup>2</sup>		
<b>Total Credits</b>		<b>16</b>

<sup>1</sup> If a 4-credit course is taken, one credit may be used toward satisfying the professional elective and free elective requirement.

<sup>2</sup> E C E 454 Mobile Computing Laboratory and COMP SCI 407 Foundations of Mobile Systems and Applications cannot both be taken for degree credit.

## PROFESSIONAL ELECTIVES

**Code** **Title** **Credits**

Courses to be taken in an area of professional interest. The following courses are acceptable as professional electives if the courses are not used to meet any other degree requirements.

Code	Title	Credits
E C E 1	Cooperative Education Program (One co-op credit can count towards professional electives.)	9
E C E 204	Data Science & Engineering	
E C E/ PHYSICS 235	Introduction to Solid State Electronics	
E C E 320	Electrodynamics II	
E C E 330	Signals and Systems	
E C E 331	Introduction to Random Signal Analysis and Statistics	
E C E 332	Feedback Control Systems	
E C E 334	State Space Systems Analysis	
E C E 335	Microelectronic Devices	
E C E 342	Electronic Circuits II (may be used if not already used as an Electronic Circuits Advanced Elective)	
E C E 355	Electromechanical Energy Conversion	
E C E 356	Electric Power Processing for Alternative Energy Systems	
E C E courses numbered 370 and higher		
COMP SCI courses numbered 400 and higher		
MATH 319	Techniques in Ordinary Differential Equations	
MATH 320	Linear Algebra and Differential Equations <sup>1</sup>	
MATH 321	Applied Mathematical Analysis 1: Vector and Complex Calculus	
MATH 322	Applied Mathematical Analysis 2: Partial Differential Equations	
MATH 340	Elementary Matrix and Linear Algebra <sup>1</sup>	
MATH 341	Linear Algebra	
MATH 345	Linear Algebra and Optimization	
MATH courses numbered 400 and higher		
STAT courses numbered 400 and higher		
Any biological sciences course that is designated as intermediate or advanced level		
Any physical science course that is designated as intermediate or advanced level		
Any natural science course that is designated as advanced level, except that math, computer sciences, and statistics courses must follow the above criteria		
Engineering courses numbered 300 and higher that are not E C E or cross-listed with E C E		

Up to six credits of Professional Electives can be taken from School of Business classes numbered 300 and higher.

DANCE 560	Current Topics in Dance: Workshop (Making Digital Lighting Controls)
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<sup>1</sup> Students may only earn degree credit for MATH 320 Linear Algebra and Differential Equations or MATH 340 Elementary Matrix and Linear Algebra, not both.

## COMMUNICATION SKILLS

Code	Title	Credits
<b>Engr Comm 1</b>		
INTEREGR 156	Introduction to Writing, Speaking, and Ethics for Engineers	3
or ENGL 100	Introduction to College Composition	
or LSC 100	Science and Storytelling	
or COM ARTS 100	Introduction to Speech Composition	
or COM ARTS 181	Elements of Speech-Honors Course	
or ESL 118	Academic Writing II	
<b>Engr Comm 2</b>		
INTEREGR 397	Engineering Communication	3
<b>Total Credits</b>		<b>6</b>

## LIBERAL STUDIES ELECTIVES

Code	Title	Credits
<b>College of Engineering Liberal Studies Electives Requirements</b>		
Complete requirements ( <a href="https://guide.wisc.edu/undergraduate/engineering/#requirementstext">https://guide.wisc.edu/undergraduate/engineering/#requirementstext</a> )		15
<b>Total Credits</b>		<b>15</b>

## HONORS IN RESEARCH PROGRAM

Qualified undergraduates may earn an Honors in Research designation in their transcript. The Honors in Research program gives an undergraduate the opportunity to participate in a research project under the direction of a faculty member. It is expected that the student will be actively involved in research that could lead to new knowledge. The project can be independent or a component of a larger team effort.

Admission Requirements include:

1. Complete at least one semester on the UW-Madison campus,
2. Have a cumulative GPA of at least 3.5,
3. Major in Computer Engineering (CMPE) or Electrical Engineering (EE),
4. Identify an ECE faculty advisor who is willing to supervise the research project.

Students admitted to the program should register for one to three credits of E C E 489 Honors in Research. A thesis worth three credits of E C E 489 Honors in Research is required. The thesis is a written document that details the objectives of the project, the methods used to carry out the research, and the results of the research activity. The thesis must be approved by the faculty advisor and the student is encouraged to present a seminar.

The “Honors in Research” designation will be awarded to graduates who:

1. Complete either the CMPE or EE degree requirements.
2. Have a cumulative GPA of at least 3.3 at graduation.
3. Complete a total of at least six credits of E C E 489 Honors in Research.
4. Receive a final grade of at least B in E C E 489 Honors in Research.

## NAMED OPTION

View as listView as grid

- **COMPUTER ENGINEERING: MACHINE LEARNING AND DATA SCIENCE, BS** ([HTTPS://GUIDE.WISC.EDU/UNDERGRADUATE/ENGINEERING/ELECTRICAL-COMPUTER-ENGINEERING/COMPUTER-ENGINEERING-BS/COMPUTER-ENGINEERING-MACHINE-LEARNING-DATA-SCIENCE-BS/](https://guide.wisc.edu/undergraduate/engineering/electrical-computer-engineering/computer-engineering-bs/computer-engineering-machine-learning-data-science-bs/))
- **COMPUTER ENGINEERING: SEMICONDUCTOR ENGINEERING, BS** ([HTTPS://GUIDE.WISC.EDU/UNDERGRADUATE/ENGINEERING/ELECTRICAL-COMPUTER-ENGINEERING/COMPUTER-ENGINEERING-BS/COMPUTER-ENGINEERING-SEMICONDUCTOR-ENGINEERING-BS/](https://guide.wisc.edu/undergraduate/engineering/electrical-computer-engineering/computer-engineering-bs/computer-engineering-semiconductor-engineering-bs/))

## LEARNING OUTCOMES

### LEARNING OUTCOMES

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits Spring	Credits
MATH 221	5 MATH 222	4
E C E/COMP SCI 252	3 PHYSICS 201	5
or Engr Comm 1	E C E 210	2
CHEM 103, 104, or 109	4-5 Engr Comm 1 or	3
Liberal Studies Elective	3 E C E/COMP SCI 252	
<b>15-16</b>		<b>14</b>

#### Second Year

Fall	Credits Spring	Credits
E C E 203	3 MATH/COMP SCI 240	3
E C E/COMP SCI 352	3 E C E 222	4
MATH 234	4 E C E 230	4
PHYSICS 202	5 E C E 270	1
	COMP SCI 300	3
<b>15</b>		<b>15</b>

#### Third Year

Fall	Credits Spring	Credits
E C E 353	3 E C E 315	1
E C E 340	3 E C E 551	3
E C E/COMP SCI 354	3 Circuits Elective	3
COMP SCI 400	3 Probability and Statistics Elective	3
Liberal Studies Elective	3 INTEREGR 397	3
	Liberal Studies Elective	3
<b>15</b>		<b>16</b>

#### Fourth Year

Fall	Credits Spring	Credits
E C E 453, 454, 455, or 554	4 COMP SCI/E C E 506, 536, 537, or 564	3
Computer Engineering Elective	3 Computer Engineering Elective	3
Professional Elective	3 Professional Elective	3
Liberal Studies Elective	3 Liberal Studies Elective	3
Professional Elective	3 Free Elective	2
<b>16</b>		<b>14</b>

**Total Credits 120-121**

## ADVISING AND CAREERS

### ADVISING AND CAREERS ADVISING

Every College of Engineering undergraduate has an assigned academic advisor (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>). Academic advisors support and coach students

through their transition to college and their academic program all the way through graduation.

Advisors help students navigate the highly structured engineering curricula and course sequencing, working with them to select courses each semester.

When facing a challenge or making a plan toward a goal, students can start with their academic advisor. There are many outstanding resources at UW–Madison, and academic advisors are trained to help students navigate these resources. Advisors not only inform students about the various resources, but they help reduce the barriers between students and campus resources to help students feel empowered to pursue their goals and communicate their needs.

Students can find their assigned advisor in their MyUW Student Center.

## ENGINEERING CAREER SERVICES

Engineering Career Services (<https://ecs.wisc.edu>) (ECS) assists students in finding work-based learning experiences such as co-ops and summer internships, exploring and applying to graduate or professional school, and finding full-time professional employment.

ECS offers two large career fairs per year, assists students with resume building and developing interviewing skills, hosts skill-building workshops, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to engage with the ECS office early in their academic careers. For more information on ECS programs and workshops, visit: <https://ecs.wisc.edu>.

## ACCREDITATION

### ACCREDITATION

Accredited by the Engineering Accreditation Commission of ABET (<https://www.abet.org/>), <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Electrical, Computer, Communication, Telecommunication(s), and Similarly Named Engineering Programs.

### PROGRAM EDUCATIONAL OBJECTIVES FOR THE BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Within the first few years after graduation, 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.

Note: Undergraduate Student Outcomes, number of degrees conferred, and enrollment data are made publicly available at the Computer Engineering Undergraduate Program website (<https://engineering.wisc.edu/programs/degrees/computer-engineering-bs/>).

(In this Guide, the program's Student Outcomes are available through the "Learning Outcomes" tab.)