

GEOLOGICAL ENGINEERING, B.S.

Geological engineering integrates two disciplines—geology and engineering. Geologists study the earth—its origins, its composition, and its evolution. Engineers apply scientific principles to practical ends, such as the design and construction of facilities for practical use by society. Geological engineering is interdisciplinary, with faculty from the College of Engineering and the College of Letters & Science.

Geological engineers find the best way to use the earth's resources to solve technical problems while protecting the environment. They solve a variety of practical problems associated with rock and soils using principles of sustainable engineering. They design and construct structures, transportation facilities, dams, tunnels, and power plants. They mitigate naturally occurring phenomena such as floods, landslides, and earthquakes, and develop safe and environmentally sound sources of energy and minerals. Geological engineers also manage groundwater and surface water resources to ensure the public has access to safe drinking water. They also design and construct subsurface repositories for waste disposal and remediate contaminated sites.

Students pursuing the B.S. degree are encouraged to obtain an additional major in geoscience. The B.S. program is set up so that students can obtain a degree in geological engineering and an additional major in geoscience in a single 125-credit program. No extra credits are required to obtain the additional major in geoscience. The B.S. degree in geological engineering is accredited by the Accreditation Board of Engineering and Technology (ABET), which is required to obtain a professional engineering license.

GEOLOGICAL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

Graduates will be prepared to assume positions as geological engineers upon graduation. After proper training and exposure to a comprehensive education in our program, our graduates will demonstrate during the five years after graduation their ability to:

1. apply geological engineering principles, analyses, and synthesis to design and implement projects in the natural and built environment;
2. incorporate economic, environmental, political, ethical, social, safety, and global considerations to generate sustainable solutions in the natural and built environment;
3. exhibit strong communication, leadership, and teamwork skills;
4. serve others through professional responsibility and participation in professional and public activities and good citizenship; and
5. demonstrate a continuing commitment to and interest in their own and others' education.

HOW TO GET IN

ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply/>) need to indicate an engineering major (<https://www.engr.wisc.edu/academics/undergraduate-academics/choosing-a-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 (<https://www.engr.wisc.edu/academics/student-services/academic-advising/first-year-undergraduate-students/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 (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students/>). 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 an online information tutorial and drop-in advising (<https://www.engr.wisc.edu/academics/student-services/academic-advising/cross-campus-students/>) 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 (<https://www.engr.wisc.edu/academics/student-services/academic-advising/transfer-students/>) 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. Transfer admission to the College of Engineering is competitive and selective, and students who have earned more than 80 transferable semester credits at the time of application are not eligible to apply.

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.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Coordinator in the College of Engineering: ugtransfer@engr.wisc.edu or 608-262-2473.

SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://www.engr.wisc.edu/admissions/undergraduate-admissions/returning-adults-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 (<http://guide.wisc.edu/undergraduate/#requirementsforundergraduatesstudystext>) section of the *Guide*.

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| General Education | <ul style="list-style-type: none"> • 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 * |
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* 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.

Students must complete the College of Engineering Liberal Studies Requirements (<http://guide.wisc.edu/undergraduate/engineering/#requirementstext>).

Students are encouraged to download a GLE Undergraduate Handbook from the Current Students/Undergraduate page on the department website (<http://www.engr.wisc.edu/geological-engineering/>). The handbook has detailed curriculum information as well as other practical information for undergraduate students to supplement the information provided here.

Students completing the geological engineering degree are also eligible to earn an additional major in geoscience with no additional coursework. Students are encouraged to declare an additional major in geoscience. Students must contact an advisor to complete the necessary paperwork to declare an additional major in geoscience.

SUMMARY OF REQUIREMENTS

Code	Title	Credits
	Mathematics	13
	Engineering Principles and Professional Issues	11-14
	Physical Science, Engineering Science, and Geoscience	44
	Required Geological Engineering Courses	18
	Technical Electives	15
	Geological Engineering Design	
	Communication Skills	8-9
	Liberal Studies Electives	16

Fundamentals of Engineering Exam

Total Credits	125-129
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MATHEMATICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
or MATH 276	Topics in Calculus II	
MATH 234	Calculus—Functions of Several Variables	4

Total Credits	13
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ENGINEERING PRINCIPLES AND PROFESSIONAL ISSUES

Code	Title	Credits
STAT 324	Introductory Applied Statistics for Engineers	3
or STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
CIV ENGR/G L E 291	Problem Solving Using Computer Tools	4
I S Y E 313	Engineering Economic Analysis	3
Select one:		1-4
E P D 690	Special Topics in Engineering Professional Development (Topic: Core Competence in Sustainability)	
ENVIR ST 250	Introduction to Sustainability Science	
ENVIR ST/ GEOG 339	Environmental Conservation	
ENVIR ST/ PHILOS 441	Environmental Ethics	
G L E 401	Special Topics in Geological Engineering (Topic: Ethics & Professionalism - GLE)	
INTEREGR 303	Applied Leadership Competencies in Engineering	

Total Credits	11-14
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PHYSICAL SCIENCE, ENGINEERING SCIENCE AND GEOSCIENCE

Code	Title	Credits
Select one of the following:		5-9
CHEM 109	Advanced General Chemistry	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
PHYSICS 202	General Physics	5
or PHYSICS 208	General Physics	
E M A 201	Statics	3
E M A 202	Dynamics	3
or M E 240	Dynamics	
E M A 303	Mechanics of Materials	3

or M E 306	Mechanics of Materials	
CIV ENGR 310	Fluid Mechanics	3
GEOSCI 100	Introductory Geology: How the Earth Works	3
or GEOSCI/ ENVIR ST 106	Environmental Geology	
GEOSCI 202	Introduction to Geologic Structures	4
GEOSCI 204	Geologic Evolution of the Earth	4
GEOSCI/G L E 360	Principles of Mineralogy	3
GEOSCI/G L E 370	Elementary Petrology	3
GEOSCI/G L E 431	Sedimentary & Stratigraphy Lab	1
GEOSCI/G L E 455	Structural Geology	4
Total Credits		44-48

REQUIRED GEOLOGICAL ENGINEERING COURSES

Code	Title	Credits
G L E 171	Introduction to Geological Engineering	1
G L E/CIV ENGR 330	Soil Mechanics	3
G L E/CIV ENGR/ GEOSCI/M S & E 474	Rock Mechanics	3
G L E 479	Geological Engineering Design	3
G L E/GEOSCI 594	Introduction to Applied Geophysics	3
G L E/GEOSCI 595	Field Methods in Applied and Engineering Geophysics	1
G L E/GEOSCI 627	Hydrogeology	4
Total Credits		18

TECHNICAL ELECTIVES (15 CREDITS)

Students must take at least 15 credits of Technical Electives, of which 5-6 credits must be design focused.

Design-focused technical electives (choose one of the following options):

Option 1: G L E/CIV ENGR 430 Introduction to Slope Stability and Earth Retention and G L E/CIV ENGR 432 Introduction to Shallow and Deep Foundation Systems and G L E/CIV ENGR 434 Introduction to Underground Openings Engineering are required. Choose one additional technical elective from the technical elective list courses noted with a (D).

Option 2: G L E/CIV ENGR 432 Introduction to Shallow and Deep Foundation Systems and G L E/CIV ENGR 434 Introduction to Underground Openings Engineering and G L E/CIV ENGR 530 Seepage and Slopes are required.

Option 3: G L E/CIV ENGR 430 Introduction to Slope Stability and Earth Retention and G L E/CIV ENGR 434 Introduction to Underground Openings Engineering and G L E/CIV ENGR 532 Foundations are required.

The remaining technical elective credits may be selected from the technical elective list below. Students may take up to 6 credits of G L E 489 Honors in Research as technical electives. The technical electives are organized into five tracks, described below. Students may select courses within these tracks to focus coursework in a particular area. However, students may complete the technical electives requirement using courses listed in multiple tracks.

Suggested technical electives and associated credits (D indicates design course) for each track are included below. One credit of G L E 1 Cooperative Education Program can be used as a technical elective.

Energy, Minerals & Mining

Geological engineers possess knowledge and a skill set that serve society's need to manage extraction of traditional energy and mineral resources in more sustainable and efficient ways, and to lead in new technologies to limit carbon emissions through geological sequestration or to develop geothermal energy in deeper reservoirs.

Within this track, the 16 credits of liberal studies can be framed to match those of the Energy Institute certificate in Energy Sustainability (<http://guide.wisc.edu/undergraduate/engineering/engineering-physics/engineering-energy-sustainability-certificate/>).

Code	Title	Credits
BSE/ENVIR ST 367	Renewable Energy Systems	3
CBE 562	Special Topics in Chemical Engineering (Topic: Energy & Sustainability)	1-3
CIV ENGR/ENVIR ST/ GEOG 377	An Introduction to Geographic Information Systems	4
E M A 405	Practicum in Finite Elements	3
GEOSCI/ ENVIR ST 411	Energy Resources	3
GEOSCI 457	Conducted Field Trip	2
GEOSCI 459	Field Geology	6
GEOSCI 515	Principles of Economic Geology	4
G L E 401	Special Topics in Geological Engineering (D) ¹	1-3
G L E/CIV ENGR 530	Seepage and Slopes (D)	3
G L E/CIV ENGR 535	Wind Energy Balance-of-Plant Design (D)	3
G L E 801	Special Topics in Geological Engineering (Topic: Geomechanics)	1-3

¹ Only certain G L E 401 topics count as design courses.

Sustainability & Environment

Methods for quantifying the long-term effects of development, natural resource extraction, and environmental damage are often neglected or misapplied in cost-benefit life cycle analysis. This track intends to produce professionals capable of leading the field in sustainable design and construction. The Sustainability & Environment track focuses on quantification, design, and optimization in relation to the use of natural resources and construction materials/methods as well as minimizing the long-term impacts of these activities.

Code	Title	Credits
BSE/DS/ LAND ARC 356	Sustainable Residential Construction	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
CBE 562	Special Topics in Chemical Engineering (Topic: Energy & Sustainability)	1-3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR/G L E 421	Environmental Sustainability Engineering	3

CIV ENGR 427	Solid and Hazardous Wastes Engineering (D)	3	CIV ENGR 414	Hydrologic Design (D)	3
CIV ENGR 619	Special Topics in Hydrology	1-3	CIV ENGR 415	Hydrology	3
CIV ENGR 649	Special Topics in Structural Engineering (Topic: Sustainable Construction)	1-3	CIV ENGR 500	Water Chemistry	3
GEOSCI/ ENVIR ST 411	Energy Resources	3	CIV ENGR 618	Special Topics in Hydraulics and Fluid Mechanics (D) ¹	1-3
GEOSCI/G L E 629	Contaminant Hydrogeology (D)	3	CIV ENGR 619	Special Topics in Hydrology	1-3
G L E 401	Special Topics in Geological Engineering (D) ¹	1-3	GEOSCI/GEOG 320	Geomorphology	3
G L E/CIV ENGR 635	Remediation Geotechnics (D)	3	GEOSCI/GEOG 326	Landforms-Topics and Regions	3
G L E/CIV ENGR 732	Unsaturated Soil Geoengineering	3	GEOSCI/GEOG 420	Glacial and Pleistocene Geology	3
SOIL SCI 321	Soils and Environmental Chemistry	3	GEOSCI 430	Sedimentology and Stratigraphy	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3	GEOSCI/G L E 629	Contaminant Hydrogeology (D)	3
			G L E/CIV ENGR 530	Seepage and Slopes (D)	3
			G L E/CIV ENGR 732	Unsaturated Soil Geoengineering	3

¹ Only certain G L E 401 Special Topics in Geological Engineering topics count as design courses.

Geohazards

The number of fatalities and amount of economic loss due to geohazards increase every year. These losses may result from various geohazards, such as volcanic eruptions, earthquakes, landslides, flooding and tsunamis. The Geohazards track aims to provide students with the necessary skills to perform analyses that minimize loss of life and economic costs associated with geohazards.

Code	Title	Credits
CIV ENGR/ENVIR ST/ GEOG 377	An Introduction to Geographic Information Systems	4
CIV ENGR 514	Coastal Engineering (D)	2-3
E M A 405	Practicum in Finite Elements	3
GEOSCI/GEOG 320	Geomorphology	3
GEOSCI/GEOG 326	Landforms-Topics and Regions	3
GEOSCI/G L E 350	Introduction to Geophysics: The Dynamic Earth	3
GEOSCI 459	Field Geology	6
G L E/CIV ENGR/ ENVIR ST/ GEOG 444	Practical Applications of GPS Surveying	2
G L E/CIV ENGR 530	Seepage and Slopes (D)	3
G L E 597	Borehole Geophysics	3
G L E/CIV ENGR 735	Soil Dynamics (D)	3

Water

Water is an essential resource for humans and ecosystems. Water is also linked to mineral and energy resource production, waste management, and land reclamation. Population growth and climate change are creating increasing challenges to this resource. Development and sustainable management of groundwater and surface water, including prevention and mitigation of water quality problems, require combined expertise in geoscience, hydrology, and water resources engineering offered through the Water track.

Code	Title	Credits
CIV ENGR 311	Hydroscience	3
CIV ENGR 412	Groundwater Hydraulics	3

¹ Must take one of these topics: "Waterfront & Coastal Planning" or "Lake & River Rehabilitation."

Infrastructure

There are many challenges that need to be overcome to address the aging infrastructure of this country as well as to develop cost effective solutions for new infrastructure in developing nations. The Infrastructure track is developed to provide students a background that enables them to perform engineering calculations to design, construct, assess the current condition (level of safety), and develop repair and retrofit solutions for civil engineering structures resting on, or constructed in, soil or rock.

Code	Title	Credits
CIV ENGR 649	Special Topics in Structural Engineering (Topic: Sustainable Construction)	1-3
E M A 405	Practicum in Finite Elements	3
GEOSCI/GEOG 320	Geomorphology	3
GEOSCI/GEOG 420	Glacial and Pleistocene Geology	3
GEOSCI 430	Sedimentology and Stratigraphy	3
G L E 401	Special Topics in Geological Engineering (D) ¹	1-3
G L E/CIV ENGR/ ENVIR ST/ GEOG 444	Practical Applications of GPS Surveying	2
G L E/CIV ENGR 530	Seepage and Slopes (D)	3
G L E/CIV ENGR 532	Foundations (D)	3
G L E/CIV ENGR 535	Wind Energy Balance-of-Plant Design (D)	3
G L E/CIV ENGR 730	Engineering Properties of Soils	3
G L E/CIV ENGR 735	Soil Dynamics (D)	3

¹ Only certain G L E 401 topics count as design courses.

COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
or COM ARTS 100	Introduction to Speech Composition	
or LSC 100	Science and Storytelling	
or ESL 118	Academic Writing II	
E P D 275	Technical Presentations	2-3
or COM ARTS 105	Public Speaking	

or COM ARTS 181	Elements of Speech-Honors Course	
or COM ARTS 262	Theory and Practice of Argumentation and Debate	
or COM ARTS 266	Theory and Practice of Group Discussion	
INTEREGR 397	Engineering Communication (was EPD 397 before Fall 2020)	3
Total Credits		8-9

LIBERAL STUDIES (16 CREDITS)

Students must complete the **16 credits** of College of Engineering Liberal Studies Requirements (<http://guide.wisc.edu/undergraduate/engineering/#requirementstext>).

FUNDAMENTALS OF ENGINEERING EXAM

All students must take the Fundamentals of Engineering exam.

HONORS IN RESEARCH

Students in geological engineering that have completed at least two semesters on the Madison campus with a cumulative GPA of **at least 3.5** may apply to participate in the Honors in Research program. Students may register for 1 to 3 credits per semester. A grade of P (Progress) will be assigned each semester until the student completes the honors in research program or drops out of the program, at which time a final grade is assigned (based on research progress and the written thesis, if completed). This becomes the grade for all credits taken in G L E 489 Honors in Research.

A senior thesis worth 3 credits of G L E 489 Honors in Research is required. The senior thesis is a written document reporting on a substantial piece of work that is prepared in the style of a graduate thesis. The thesis advisor determines the grade which the student receives for the thesis. A bound copy of the thesis must be submitted to the geological engineering office to complete the program.

The designation "Honors in Research" will be recorded on the student's transcript if the following criteria are met:

1. Satisfaction of requirements for an undergraduate degree in Geological Engineering.
2. A cumulative grade-point average of at least 3.3.
3. Completion of a total of at least 8 credits in G L E 489 Honors in Research.
4. Completion of a senior honors thesis with a final grade of B or better.

Students interested in the Honors in Research program should contact their advisor or the G L E chair for more information. Applications to the program are to be submitted to the G L E chair with a supporting letter from the student's academic and thesis advisors. Decisions regarding acceptance are made by the G L E chair.

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. 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

SAMPLE FOUR-YEAR PLAN

First Year

Fall	Credits	Spring	Credits
MATH 221		5 MATH 222	4
CHEM 109		5 E M A 201	3
GEOSCI 100 or 106		3 GEOSCI 204	4
Communication A		3 G L E 171	1
		Liberal Studies Elective	4
		16	16

Second Year

Fall	Credits	Spring	Credits
MATH 234		4 CIV ENGR 310	3
E M A 202		3 E M A 303	3
GEOSCI/G L E 360		3 PHYSICS 202 or 208	5
GEOSCI 202		4 GEOSCI/G L E 370	3
CIV ENGR/G L E 291		4 Liberal Studies Elective	3
		18	17

Third Year

Fall	Credits	Spring	Credits
STAT 324 or 311		3 Technical Elective	3
Technical Elective		3 Professional Issues	1-4
CIV ENGR/G L E 330		3 G L E/CIV ENGR/ GEOSCI/M S & E 474	3
G L E/GEOSCI 431		1 GEOSCI/G L E 455	4
Liberal Studies Elective		3 INTEREGR 397 (was EPD 397)	3
EPD 275, COM ARTS 105, COM ARTS 181, COM ARTS 262, or COM ARTS 266	2-3		
	15-16		14-17

Fourth Year

Fall	Credits	Spring	Credits
Ethnic Studies		3 G L E 479	3
G L E/GEOSCI 594		3 Liberal Studies Elective	3
G L E/GEOSCI 595		1 I SY E 313	3
G L E/GEOSCI 627		4 Technical Elective	3
Technical Elective (design)		3 G L E/CIV ENGR 430	1
		G L E/CIV ENGR 432	1
		G L E/CIV ENGR 434	1
	14		15

Total Credits 125-129

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**

Kurt L. Feigl
Laurel B. Goodwin

Tracey Holloway
William J. Likos
Steven P. Loheide II
Clifford H. Thurber
Basil Tikoff
Chin H. Wu

ASSOCIATE PROFESSORS

Michael Cardiff
Dante Fratta
Matthew Ginder-Vogel
James Tinjum (Director)

ASSISTANT PROFESSORS

Jesse Hampton
Andrea Hicks
Hiroki Sone
Lucas Zoet

See also Civil and Environmental Engineering Faculty Directory (<https://directory.engr.wisc.edu/cee/faculty/>).

RESOURCES AND SCHOLARSHIPS**FACILITIES**

The geological engineering program utilizes laboratories that are shared with other departments. They include:

Land Information and Surveying Laboratories
Fluid Mechanics Laboratory
Materials Testing Laboratory
Geology and Hydrogeology Laboratories
Rock Mechanics Laboratory
Geotechnical and Geoenvironmental Laboratories
The Halliburton Geoscience Visualization Center

ACCREDITATION

Accreditation.

Accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org> (<http://www.abet.org/>).

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.")