



ENGINEERING PARTNERSHIP PROGRAM

CIVIL ENGINEERING (BS)

2025 – 2026

coloradomesa.edu/engineering

The Bachelor of Science Degree in Civil Engineering obtained through the Engineering Partnership Program is conferred by the University of Colorado Boulder. Lower-division coursework is completed through Colorado Mesa University before applying for admission to the University of Colorado Boulder. The entire program is completed on the campus of Colorado Mesa University. A student may apply for admission to the University of Colorado Boulder through the Engineering Partnership Program when they have satisfied all criteria of one of the following scenarios:

Scenario 1

- Complete a college-level, two-course sequence in calculus with a grade of B– or higher
- Complete one college-level physical science course (calculus-based physics and/or college-level chemistry) with a grade of B– or higher
- Maintain a college-level cumulative GPA of 3.0 or higher

Scenario 2

- Complete the first- and second-year course sequence listed on the current Program Sheet or Degree Plan for the Engineering Partnership Program
- Maintain a college-level cumulative GPA of 3.0 or higher

Student Outcomes. Graduates of this program will have...

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 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.

Program Objectives. Within five years, alumni will...

1. be successfully employed in engineering, science or technology careers.
2. be assuming management or leadership roles.
3. engage in continual learning by pursuing advanced degrees or additional educational opportunities through coursework, professional conferences and training, and/or participation in professional societies.
4. pursue professional registration or other appropriate certifications.
5. be engaged in activities that provide benefit to communities.



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The Bachelor of Science Degree in Civil Engineering requires:

- [Transfer](#) to the University of Colorado Boulder of all coursework listed on the plan of study
- At least 45 credits earned from the University of Colorado Boulder ([residency requirement](#))
- A minimum of 128 credits earned to graduate
- A cumulative and major [GPA of at least 2.000](#) (from entirely CU Boulder coursework as a student's GPA does not transfer from non-CU institutions)
- Taking the [FE Exam](#)

AP & IB Credit

Engineering Partnership students must achieve [scores required of CU Boulder](#) for AP and IB credit. An AP score of 5 is required on Physics C: Mechanics to receive credit for PHYS 131 & 131L. This score is higher than the score required for credit at CMU.

English Language and Composition Scores of 4 or 5, despite transferring to CMU as ENGL 111 and 112, do not count toward CEAS humanities and social science requirements (as it is not under the arts and humanities distribution). However, a score of 3, 4, or 5 on the English Literature and Composition exam will count towards CEAS humanities and social science requirement (as it is under the arts and humanities distribution).

A score of a 4 on AP chemistry satisfies the general chemistry requirement (equivalent to CHEM 121/121L or CHEM 131/131L at CMU). Although this score is also equivalent to CU Boulder's CHEM 1021, CHEM 1021 itself is not sufficient to satisfy the general chemistry requirement.

A Biology score of a 3, despite transferring to CMU as BIOL 108 and BIOL 108L, does not count towards the basic science elective (as it is not equivalent to a CU Boulder specific course, but instead to lower division arts and sciences credits). However, a score of a 4 or 5 on the Biology exam will count towards the basic science elective because EBIO 1210 is included in this requirement.

Academic Calendar

The Engineering Partnership Program follows the calendar of Colorado Mesa University for semester start and end dates as well as breaks. Add, drop, and withdrawal dates may differ and can be found on the [CU Boulder Registrar's Website](#).

Petitions

Students seeking an exception to a [policy or practice](#) (including transfer coursework policies) should first talk to the Partnership Program Director and then [submit a petition](#).



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Coursework Not Accepted for Transfer Credit

All courses not taken through the University of Colorado will undergo a transfer evaluation and credit will be transferred to CU Boulder as applicable. The following coursework will not be accepted for transfer credit and will not count toward a degree at CU Boulder, as described in the [Campus Transfer Credit Policy](#):

- any courses in which the grade earned is below a C– (1.70)
- courses identified by CU Boulder as remedial, such as remedial English, mathematics, science and developmental reading
- vocational-technical courses that are offered at two-year and proprietary institutions (exceptions may be granted only by the CU Boulder dean responsible for the student's curriculum)
- courses in religion that constitute specialized religious training or that are doctrinal in nature
- credits earned for work experience or through a cooperative education program
- outdoor leadership education coursework
- credits earned in physical education activity courses
- courses or programs identified as college orientation

Credit hours required for graduation that were earned more than ten years prior to transferring into an undergraduate degree program at CU Boulder may not apply to the completion of a student's graduation requirements.

Students are responsible for making up any difference in credit hours between the transfer credit received and the CU Boulder course. This can happen, for example, when students transfer coursework from an institution on a quarter-system. Furthermore, students must have their Academic Advisor approve how a credit shortfall is made up (based on ABET and other program requirements). Students must have a minimum of 128 unique non-duplicative, degree applicable credit hours, along with meeting the specified course and other requirements for a specific bachelor's degree program per [CEAS Transfer Credit Policy](#).



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COURSES

Mathematics & Basic Sciences: 33 semester hours

MATH 135	Engineering Calculus I	4
MATH 136	Engineering Calculus II	4
MATH 253	Calculus III	4
MATH 236	Differential Equations & Linear Algebra	4
PHYS 131	Fundamental Mechanics	4
PHYS 131L	Fundamental Mechanics Lab	1
PHYS 132	Electromagnetism & Optics	4
CHEM 151	Engineering Chemistry	4
CHEM 151L	Engineering Chemistry Lab	1
	Basic Science Elective (see list on next page)	3

Computer Science: 4 semester hours

CSCI 130	Introduction to Engineering Computing	4
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Writing: 3 semester hours

ENGL 325	Writing for Engineers	3
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Basic Engineering: 22 semester hours

CIVE 127	Engineering Drawing	3
CIVE 212	Introduction to Geomatics	3
CIVE 313	Theoretical Fluid Mechanics	3
ENGR 101	Introduction to Engineering	1
ENGR 140	1st-Year Engineering Projects	3
ENGR 261	Statics & Structures	3
ENGR 263	Mechanics of Solids	3
ENGR 343	Dynamics	3

Core Engineering: 39 semester hours

CVEN 3227	Probability & Statistics	3
CVEN 3246	Intro to Construction	3
CVEN 3256	Construction Equipment & Methods	3
CVEN 3323	Hydraulic Engineering	3
CVEN 3414	Fundamentals of Environmental Engr	3
CVEN 3424	Water & Wastewater Treatment	3
CVEN 3525	Structural Analysis	3
CVEN 3708	Geotechnical Engineering 1	3
CVEN 4333	Engineering Hydrology	3
CVEN 4545	Steel Design	3
CVEN 4897	Professional Issues	2
CVEN 4899	Civil Engr Senior Design Project	4
MCEN 3012	Thermodynamics	3
or		
ENGR 224&L	Materials Science & Lab	3

Technical Electives: 12 semester hours

CVEN ????	Civil Engineering Electives (EMEN 4100, 4110, or 4120 may count as one CVEN technical elective)	6
Gen Tech	Upper-Division Engineering, Computer Science, Math, and Science	6

Humanities & Social Science Elect: 15 semester hours

	Humanities & Social Sciences	9
	Upper-Division Humanities & Social Sciences	6

TOTAL CREDITS 128



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Acceptable Course Substitutions

MATH 151 Calculus I (5-credits) for MATH 135 Engineering Calculus I (4-credits)

MATH 152 Calculus II (5-credits) for MATH 136 Engineering Calculus II (4-credits)

MCEN 3021 Fluid Mechanics (3-credits) for CIVE 313 Theoretical Fluid Mechanics (3-credits)

CHEM 131 General Chemistry I (4-credits) & CHEM 131L General Chemistry I Lab (1 credit) for CHEM 151 Engineering Chemistry (4-credits) & CHEM 151L Engineering Chemistry Lab (1 credit)

To investigate additional course substitutions from CMU or another institution, check www.transferology.com to verify how applicable courses will transfer to CU Boulder and discuss options with an Academic Advisor.

Humanities & Social Science Electives

See: <https://www.coloradomesa.edu/engineering/documents/hssacceptableclasses20240821.pdf>

Basic Science Elective

The following CMU courses are approved as basic science electives:

BIOL 108 & 108L Diversity of Organisms and Lab (4-cr)

BIOL 105 & 105L Attributes of Living Systems (4-cr)

BIOL 209 & 209L Human Anatomy and Physiology (4-cr)

ENVS 101 Introduction to Environmental Science (3-cr)

GEOL 103 Weather and Climate (3-cr)

GEOL 104 Oceanography (3-cr)

GEOL 105 Geology of Colorado (3-cr)

GEOL 107 Natural Hazards and Environmental Geology (3-cr)

GEOL 108 Water, People and Environment (3-cr)

GEOL 111 & 111L Principles of Physical Geology (4-cr)

GEOL 113 & 113L Field-Based Intro to Physical Geology (4-cr)

GEOL 250 Environ Geology (3-cr)

CVEN Technical Electives

3000- and 4000-level CVEN courses not otherwise required for the major are considered CVEN Technical Electives. EMEN 4100, 4110, or 4120 may count as one CVEN technical elective. Previous course offerings can be found at classes.colorado.edu (select "Colorado Mesa University" as the location). CVEN and General Technical Electives cannot 'double count' elsewhere in the degree.

General Technical Electives

CMU 300- and 400-level courses in the following subjects are considered General Technical Electives: CHEM, CSCI, ENGR, MATH, and PHYS. Students should not take ENGR 317/L, ENGR 225, ENGR 305, ENGR 312, ENGR 317, ENGR 321, ENGR 401, and ENGR 427 (please consult your Academic Advisor for details). CU Boulder 3000- and 4000-level courses in the following subjects are considered General Technical Electives: CVEN, EMEN, and MCEN.

Free Electives

College-level coursework accepted by CU Boulder not used otherwise to satisfy the requirements of this degree. Use Transferology.com to verify that courses will transfer to CU Boulder.



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Grade Requirements

The minimum passing grade for prerequisite and co-requisite courses is a C–. This includes courses completed outside the program. The minimum passing grade for standalone courses is a D–. [College of Engineering and Applied Science Academic Expectations and Policies](#) state that if a minimum required grade in a prerequisite course is not achieved, a student is required to repeat a course until the minimum acceptable grade has been earned (maximum of 3 attempts total). If a student takes the advanced (post-requisite) course, this does not remove the obligation to meet the prerequisite course minimum grade requirement, even if the grade earned in the advanced course is acceptable.

Pass/Fail

No pass/fail coursework can count for any degree requirements. If a student takes an "extra" course not counting toward their CVEN degree, they can petition to take this course as pass/fail.

Academic Standing

To remain in good academic standing with the College of Engineering and Applied Science, a student must maintain satisfactory academic performance as measured by GPA and progress toward completion of a Bachelor of Science degree. Students must maintain both a cumulative and major CU Boulder GPA of at least 2.000 based entirely on CU Boulder coursework. Courses taken at CMU do not count toward CU Boulder GPA. Failure to meet these requirements results in a student being placed on Academic Alert, Academic Recovery, and/or Academic Suspension. Students in this situation should consult the Partnership Program Director and review the Academic Standing Policies:

<https://www.colorado.edu/engineering-advising/academic-standing>

Fundamentals of Engineering (FE) Exam

Taking the [Fundamentals of Engineering \(FE\) Examination](#), fall or spring of a student's senior year is required. Graduation is not contingent upon passing. However, it is beneficial to pass because this exam is the first step toward a Professional Engineer's certification.