



Intercampus Transfer

Advising Guide
2009-2010

The acceptance of a student transferring from one campus to another within the University of Colorado system is determined by the Office of Admissions on the basis of guidelines established by the respective College of Engineering and Applied Science (see <http://www.colorado.edu/prospective/transfer/admission/fouryr-criteria.html>).

Intercampus transfer applications are considered on the basis of the student's University of Colorado system grade point average, grades earned in engineering-related courses, grades earned at other institutions, satisfactory academic progress toward degree requirements, course load completed, status of MAPS, and the residency requirement of the degree-granting Engineering College.

The student is advised that the engineering degree requirements differ from one campus to another in the number of credit hours required for the degree, specific course content and titles, and in-residence credit required in that College. Where there is a difference in credit hours between courses listed as equivalent, the Engineering College at CU-Boulder applies the smaller number of credit hours. To ensure the maximum acceptance of credit toward degree requirements and minimize the length of time required to complete the degree, the student planning an intercampus transfer must contact the new major department as soon as possible once deciding to complete an engineering degree at another campus of the University of Colorado.

Generally, an intercampus transfer should be accomplished by the end of the first year, with some course selection coordination required between the student and the degree granting major department during that year. With increased course selection coordination, some students may be able to delay their transfer until the middle or end of the sophomore year. Beyond that point, the student is likely to lose course credit and time in completing degree requirements.

All Minimum Academic Preparation Standards (MAPS) deficiencies are to be completed prior to the intercampus transfer (usually the freshman year). See <http://www.colorado.edu/prospective/freshman/admission/maps.html>.

A typical freshman year for the intercampus transfer student would include the following courses:

| First Semester | | Second Semester | |
|---|---------|----------------------------|-------|
| Calculus 1 | 4 hrs | Calculus 2 | 4 hrs |
| Chemistry 1 (college-level chemistry + lab) | 5 hrs | Physics 1 (calculus-based) | 4 hrs |
| Computer Science* | 3-4 hrs | Engineering Projects | 3 hrs |
| Humanities/Social Science | 3 hrs | Humanities/Social Science | 3 hrs |

* If transferring to CU-Boulder, the student should not enroll in any freshman English composition or speech courses. Engineering drawing and/or graphics courses are applicable in select majors only.

In order to gain information about each campus' engineering college, the following list of web sites are provided:

University of Colorado, Boulder Campus
College of Engineering and Applied Science
<http://engineering.colorado.edu>

University of Colorado, Colorado Springs Campus
College of Engineering and Applied Science
<http://eas.uccs.edu>

University of Colorado, Denver Campus
College of Engineering and Applied Science
<http://www.cudenver.edu/Academics/Colleges/College%20of%20Engineering%20and%20Applied%20Science/pages/default.aspx>

UNIVERSITY OF COLORADO SYSTEM COURSE EQUIVALENCIES

The following course-by-course equivalency table should assist in advising students anticipating an intercampus transfer between the Colleges of Engineering and Applied Science within the University of Colorado system. Note there may be credit hour differences between equivalences, thus students should inquire about credit hours applicable toward degree requirements with their destination major department at the appropriate campus.

| CU-Boulder Course | Equivalent Course CU-Colorado Springs | Equivalent Course CU-Denver |
|---|--|--|
| APPM 1350-4 Calculus 1 for Engineers | MATH 135 or (MATH 131 + 132) | MATH 1401 |
| APPM 1360-4 Calculus 2 for Engineers | MATH 136 | MATH 2411 |
| APPM 2350-4 Calculus 3 for Engineers | MATH 235 | MATH 2421 |
| APPM 2360-4 Differential Equations with Linear Algebra | MATH 313 + 340 | MATH 3195 or (MATH 3191 + 3200) |
| CHEN 1211-3 General Chemistry for Engineers | CHEM 103* | CHEM 1130 or 2031* |
| CHEM 1221-2 General Chemistry Laboratory | CHEM 103* | CHEM 2038* |
| CHEM 3311-3 Organic Chemistry 1 | CHEM 331 | CHEM 3411 |
| CHEM 3321-1 Organic Chemistry 1 Laboratory | CHEM 333 | CHEM 3418 |
| CHEM 3331-3 Organic Chemistry 2 | CHEM 332 | CHEM 3421 |
| CHEM 3341-1 Organic Chemistry 2 Laboratory | CHEM 334 | CHEM 3428 |
| PHYS 1110-4 General Physics 1 | PES 111 | PHYS 2311 |
| PHYS 1120-4 General Physics 2 | PES 112 | PHYS 2331 |
| PHYS 1140-1 Experimental Physics 1 | PES 115 or 215 | PHYS 2321 + 2341 |
| PHYS 2130-3 General Physics 3 | PES 313 | PHYS 2811 |
| PHYS 2150-1 Experimental Physics | PES 315 | PHYS 3711 |
| WRTG 3030-3 Writing on Science and Society | ENGL 309 | ENGL 3154 |
| AREN 1316-1 Introduction to Architectural Engineering | ENGR 1502 | None |
| CVEN 1317-1 Introduction to Civil and Environmental Engineering | ENGR 1502 | None |
| CVEN 2012-3 Introduction to Geomatics | None | CE 2212 |
| CVEN 2121-3 Analytical Mechanics 1 | None | CE 2121 |
| CVEN 3111-3 Analytical Mechanics 2 | None | CE 3111 |
| CVEN 3161-3 Mechanics of Materials 1 | None | CE 3121 |
| CVEN 3313-3 Theoretical Fluid Mechanics | None | CE 3313 |
| CVEN 3323-3 Hydraulic Engineering | None | CE 3323 |
| CVEN 3414-3 Fundamentals of Environmental Engineering | None | CE 3401 |
| CVEN 3424-3 Water and Wastewater Treatment | None | CE 3414 |
| CVEN 3525-3 Structural Analysis | None | CE 3505 |
| CVEN 3602-3 Transportation Systems | None | CE 3602 |
| CVEN 3698-3 Engineering Geology | None | CE 4780 |
| CVEN 3708 + CVEN 3718 + CVEN 4728 | None | CE 3708 + CE 4718 + CE 4738 |
| CVEN 4087-3 Engineering Contracts | None | CE 4087 |
| CVEN 4147-3 Civil Engineering Systems | None | CE 4077 |
| CVEN 4323-3 Water Resource Engineering Design | None | CE 4427 |
| CVEN 4537-3 Numerical Methods in Civil Engineering | None | CE 4537 |
| CVEN 4545-3 Steel Design | None | CE 4575 |
| CVEN 4555-3 Reinforced Concrete Design | None | CE 4585 |
| CVEN 4565-3 Timber Design | None | CE 4565 |
| CSCI 1300-4 Computer Science 1 : Programming | CS 115 + 206 or ECE 1021 | CSC 1410 + CSC 2312 |
| CSCI 2270-4 Computer Science 2 : Data Structures | CS 145 | CSC 2421 |
| CSCI 2400-4 Computer Systems | CS 216 | CSC 2525 |

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|---|---|-----------------------------|
| CSCI 2824-3 Discrete Structures | None | CSC 2511 |
| CSCI 3104-4 Algorithms | CS 472 | CSC 3412 |
| CSCI 3155-4 Principles of Programming Languages | CS 316 | CSC 3415 |
| CSCI 3202-3 Introduction to Artificial Intelligence | None | CSC 4202 |
| CSCI 3287-3 Database and Information Systems | CS 442 | CSC 4287 |
| CSCI 3308-3 Software Engineering Methods and Tools | CS 330 | CSC 4508 |
| CSCI 3434-3 Theory of Computation | CS 470 | CSC 4034 |
| CSCI 3656-3 Numerical Computation | CS 460 | CSC 4650 |
| CSCI 3753-4 Operating Systems | CS 450 | CSC 3453 |
| CSCI 4133-3 Security Laboratory | None | CSC 4740 |
| CSCI 4202-3 Artificial Intelligence 2 | CS 482 | |
| CSCI 4229-3 Computer Graphics | CS 480 | CSC 4565 |
| CSCI 4273-3 Network Systems | CS 422 | CSC 4761 |
| CSCI 4312-3 Medical Informatics | None | CSC 4788 |
| CSCI 4448-3 Object-Oriented Analysis and Design | CS 302 or CS 304 or CS 306 | None |
| CSCI 4555-3 Compiler Construction | CS 410 | CSC 4555 |
| CSCI 4593-3 Computer Organization | CS 420 | CSC 4591 |
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| ECEN 1100-1 Freshman Seminar | None | EE 1201 |
| ECEN 1400-3 Introduction to Digital and Analog Electronics | None | EE 2651 |
| ECEN 1350-4 C Programming for EE/ECE | ECE 1021 | None |
| ECEN 2250-3 Introduction to Circuits and Electronics | ECE 2205 | EE 2132 |
| ECEN 2260-3 Circuits as Systems | ECE 3205 | EE 2142 |
| ECEN 2270-3 Electronics Design Laboratory | ECE 3205 (lab part) + ECE 3230 + ECE 3240 | EE 2552 + EE 3715 + EE 3735 |
| ECEN 2350-3 Digital Logic | ECE 1411 + ECE 2411 | EE 1510 |
| ECEN 3010-3 Circuits and Electronics for Mechanical Engineers | None | ME 3030 |
| ECEN 3030-3 Electrical/Electronic Circuits for Non-Majors | None | EE 3030 |
| ECEN 3170-3 Energy Conversion 1 | none | EE 3164 |
| ECEN 3250-3 Microelectronics | ECE 3210 | EE 3215 |
| ECEN 3300-3 Linear Systems | None | EE 3316 |
| ECEN 3350-3 Programming of Digital Systems | ECE 3430 | EE 1520 |
| ECEN 3360-3 Digital Design Laboratory | ECE 3420 + ECE 3440 | EE 4411 + EE 2531 |
| ECEN 3400-3 Electromagnetic Fields | ECE 3110 | EE 3133 |
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| GEEN 1100-3 Social Impact of Technology | None | ENGR 3400 |
| GEEN 1300-3 Introduction to Engineering Computing | None | ME 2030 |
| GEEN 1400-3 First-Year Engineering Projects | ENGR 1001 | None |
| GEEN 1500-1 Introduction to Engineering | ENGR 1502 | ENGR 1000 |
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| MCEN 1000-1 Introduction to Mechanical Engineering | ENGR 1502 or MAE 1502 | ENGR 1000 |
| MCEN 1025-3 Computer-Aided Design and Fabrication | MAE 2501 | ENGR 1025 |
| MCEN 2023-3 Statics and Structures | MAE 2101 | ME 2023 |
| MCEN 2024-3 Materials Science | None | ME 3024 |
| MCEN 2063-3 Mechanics of Solids | MAE 3201 | ME 3043 |
| MCEN 3012-3 Thermodynamics | MAE 2301 | ENGR 3012 |
| MCEN 3021-3 Fluid Mechanics | MAE 3130 | ME 3021 or ME 4141 |
| MCEN 3022-3 Heat Transfer | MAE 3310 | ME 3042 |
| MCEN 3025-3 Component Design | MAE 3501 | ME 3035 |
| MCEN 3030-3 Computational Methods | None | ME 3010 or ME 4110 |
| MCEN 3037-2 Experimental Design and Data Analysis | MAE 4561 | None |
| MCEN 3043-3 Dynamics | MAE 2102 or MAE 2104 | ME 2033 or ME 4163 |
| MCEN 4026-3 Manufacturing Processes and Systems | None | ME 3145 |
| MCEN 4037-2 Measurements Laboratory | MAE 3005 | ME 3027 + ME 3028 |
| MCEN 4043-3 System Dynamics | MAE 3401 or MAE 4421 | ME 4023 or ME 4136 |
| MCEN 4045-3 Mechanical Engineering Design Project 1 | None | ME 4035 |
| MCEN 4047-2 Mechanical Engineering Laboratory | MAE 3010 | None |
| MCEN 4085-4 Mechanical Engineering Design Project 2 | None | ME 4045 |
| MCEN 4122-3 Thermodynamics 2 | MAE 3302 | ME 3022 |

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|--|----------|---------|
| MCEN 4123-3 Vibration Analysis | MAE 4150 | ME 3023 |
| MCEN 4124-3 Mechanical Behavior of Materials | None | ME 4024 |
| MCEN 4173-3 Finite Element Analysis | None | ME 4175 |
| MCEN 4183-3 Mechanics of Composite Materials | MAE 4155 | ME 4114 |

*Students planning to major in Chemical Engineering, Chemical & Biological Engineering, or Environmental Engineering at CU-Boulder should take:

CHEM 103 + 106 at the Colorado Springs campus, —or—
(CHEM 1130 + 2038) or (CHEM 2031 + 2061 + 2038) at the Denver campus.