University of Colorado Denver  
Department of Civil Engineering  

Prerequisite Requirements for Graduate Study  
in  
Hydrologic, Environmental and Sustainability Engineering (HESE)  

11 November 2020

Name _____________________________________________ Date _______________

1. Suggested course numbers are provided, but prerequisites may be fulfilled with equivalent courses taken at the undergraduate or graduate levels, either at CU Denver or at an equivalent institution.
2. Applicants with more than 5 deficiencies will not be admitted except for rare instances.
3. After admission, a student may file a petition to the department to have a prerequisite waived.
4. A student may complete no more than 9 credit hours of graduate work before completing all prerequisites.
5. Fulfillment of prerequisites, which requires a grade of C- or better, will be checked by the student’s research advisor when the student applies for admission to candidacy prior to graduation.

Checklist for master of science (M.S.) and doctor of philosophy (Ph.D.):

_____ Calculus I (MATH-1401 or equivalent)
_____ Calculus II (MATH-2411 or equivalent)
_____ Calculus III (MATH-2421 or equivalent)
_____ Linear Algebra and Differential Equations (MATH-3195 or equivalent)
_____ Probability and Statistics (CVEN-3611 or equivalent)
_____ Physics I (PHYS-2311 or equivalent)
_____ General Chemistry (CHEM-1130 or equivalent)
_____ Computer Programming (ENGR-1100 or equivalent)
_____ Fluid Mechanics (CVEN-3313 or equivalent)
_____ Environmental Engineering (CVEN-3401 or equivalent)

Checklist for master of engineering (M.Eng.)* or Ph.D. in Civil Engineering Systems:

_____ Calculus I (MATH-1401 or equivalent)
_____ Calculus II (MATH-2411 or equivalent)
_____ Probability and Statistics (CVEN-3611 or equivalent)
_____ Physics I (PHYS-2311 or equivalent)
_____ Chemistry or Biology or Ecology
_____ Computer Programming (ENGR-1100 or equivalent)

* Also applies to the M.Eng in Sustainability Engineering

Reviewed and signed by:

Advisor _____________________________________________

Student ____________________________________________