

BS Environmental Engineering: 106 credits in Major**Suggested Plan of Study****Department of Atmospheric and Hydrologic Sciences: Phone 320-308-3260 or ahs@stcloudstate.edu****Environmental Engineering Major Advisors**Dr. Coleman Henry 320-308-1049; cjhenry@stcloudstate.eduDr. Wenjie Sun 320-308-3298; wenjie.sun@stcloudstate.eduDr. Andrea Thorstensen 320-308-3248; arthorstensen@stcloudstate.edu

First Semester	Second Semester
CMST 192 (3 cr.) Intro. to Communication Studies (Goal 1) ENVE 101 (1 cr.) Orientation to Environmental Professions ENVE 201 (3 cr.) Intro. to Environmental Engineering (Goals 2, 10) GENG 101 (3 cr.) Ethics and the Engr. Profession (3 cr.) (Goal 9) GENG 102 (3 cr.) Engineering Problem Solving MATH 221 (4 cr.) Calculus I (Goal 4) Total semester credits = 17	AHS 230 (4 cr.) Introduction to Physical Hydrology CHEM 210 (4 cr.) General Chemistry I (Goal 3) ENGL 191 (4 cr.) Intro. to Rhetorical and Analytical Writing (Goal 1) MATH 222 (4 cr.) Calculus II Total semester credits = 16
Third Semester	Fourth Semester
AHS 220 (4 cr.) Physical Geology CHEM 211 (4 cr.) General Chemistry II PHYS 234 (5 cr.) Classical Physics I (Goal 3) STAT 239 (or 353) (3 cr.) Statistical Meth. 1 for Nat. Sci. (or Engineers) Total semester credits = 16	BIOL 151 (4 cr.) Cell Function and Inheritance ENVE 302 (3 cr.) Applied Numerical Methods MATH 327 (4 cr.) Differential Equations with Linear Algebra LEP Goal Area Elective (6 cr.) Total semester credits = 17
Fifth Semester	Sixth Semester
AHS 332 (4 cr.) Physical Hydrogeology ENVE 321 (4 cr.) Thermodynamics and Transport Phenomena ENVE 327 (4 cr.) Environmental Engineering Process Analysis Science/Technical Electives (4 cr.) Total semester credits = 16	AHS 334 (4 cr.) Surface Hydrology ENVE 328 (4 cr.) Environmental Engineering Systems Analysis ENVE 482 (1 cr.) Environmental Engineering Profession MATH 320 (3 cr.) Multivariable Calculus for Engineers Science/Technical Electives (4 cr.) Total semester credits = 16
Seventh Semester	Eighth Semester
AHS 434 (2 cr.) Surface Water Modeling ENVE 426 (3 cr.) Physical and Chemical Process Design ENVE 480 (3 cr.) Environmental Engineering Project Design I MME 303 (4 cr.) Fluid Flow and Convection LEP Goal Area Electives (3 cr.) Total semester credits = 15	ENVE 427 (3 cr.) Biological Process Design ENVE 438 (3 cr.) Water Resource Engineering ENVE 481 (3 cr.) Environmental Engineering Project Design II LEP Goal Area Electives (6 cr.) Total semester credits = 15

Notes:

Students in this major do not take MATH/STAT 103 since a calculus sequence is required. The Math Placement Exam is required before enrolling in a math course. Because math and physics are prerequisites for advanced courses it is imperative that students begin the math sequence First Semester. This schedule for course work completion assumes readiness for immediate enrollment in Calculus 1, General Chemistry 1 and Classical Physics 1 without the need for introductory course work in these three areas.

The Environmental Engineering major requires a minimum of 128 semester credits to earn a Bachelor's degree. This major satisfies the SCSU requirement for 45 credits taken at the 300-400 level.

The Liberal Education Program (LEP) incorporates the ten goals of the Minnesota Transfer Curriculum. LEP must be satisfied by completion of all ten goals incorporating at least 40 credits of LEP course work. Students must complete 1 designated goal 7 (diversity) course and two additional courses providing diversity designations. The diversity course and diversity designations must come from 3 different rubrics or academic areas. One diversity course must be an approved Racial Issues course. See Goal 7 for approved Racial Issues courses. Note that some LEP courses fulfill two goal areas while also providing a diversity designation.

Completion of major courses satisfies Goal Areas 2, 3, 4, 9 and 10.