

## BS Earth Sciences: 49 credits in Major

### Suggested Plan of Study

Department of Atmospheric and Hydrologic Sciences: Phone 320-308-3260 or [ahs@stcloudstate.edu](mailto:ahs@stcloudstate.edu)

### Earth Science Major Advisors

Dr. Katherine Pound 320-308-2014 [kspond@stcloudstate.edu](mailto:kspond@stcloudstate.edu)

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First Semester	Second Semester
<sup>1,2</sup> MATH 115 (5 cr) Precalculus CHEM 210 (4 cr) General Chemistry 1 ENGL 191 (4 cr) First-Year Composition Program <sup>3</sup> Racial Issues (Goal 7) LEP course (3 cr) Total semester credits = 16	AHS 220 (4 cr) Physical Geology AHS 230 (4 cr) Introduction to Physical Hydrology PHYS 231 (4 cr) General Physics or 234 (5cr) Classical Physics CMST 192 (3 cr) Introduction to Communication Studies Total semester credits = 15
Third Semester	Fourth Semester
AHS 260 (4 cr) Introductory Meteorology <sup>3</sup> AHS Elective(s) (3 cr) LEP or University electives (9 cr) Total semester credits = 14-17	<sup>3</sup> AHS Electives (6cr) LEP or University electives (9 cr.)  Total semester credits = 15
Fifth Semester	Sixth Semester
<sup>3</sup> AHS Elective(s) (6-8cr) University Electives (6cr) GE from Distribution area A or C (3cr) Total semester credits = 15-17	<sup>3</sup> AHS Elective(s) (6-8cr) University Electives (6cr) GE from Distribution area A or C (3cr) Total semester credits = 15-17
Seventh Semester	Eighth Semester
AHS 491 (2cr) – Senior Thesis I University Electives (13cr) Total semester credits = 15	AHS 492 (2 cr) – Senior Thesis II University Electives (12-13 cr) Total semester credits = 14-15

#### Notes:

<sup>1</sup>MATH 112 (College Algebra) and 113 (Trigonometry) may be substituted for MATH 115.

<sup>2</sup>The Math Placement Exam is required before enrolling in a math course. Because math and physics are prerequisites for advanced meteorology courses it is imperative that students begin the math sequence in First Semester. For information on the Math Placement Exam see <https://www.stcloudstate.edu/mathstat/placement/> ..

<sup>3</sup>A total of 20 credits of AHS elective courses at the 300-400 level must be completed as part of this major. See a General Earth Science Major advisor for help in choosing these courses.

SCSU requires a minimum of 120 semester credits to earn a Bachelor's degree with 40 of these credits taken at the 300 or 400-level. As part of this major a student will complete 23 credits at 300-400 level. Students need to take 17 credits of additional 300-400 level University Electives to meet the 40 credit minimum and reach the 120 total. These University Electives may be in any area or may be used to complete a minor or second major in a related area or may consist of additional earth science classes.

*The Liberal Education Program (LEP) incorporates the ten goals of the Minnesota Transfer Curriculum. LEP must be satisfied by completion of all ten goals and achieve a total of at least 40 credits. Students must complete 3 diversity courses. The diversity courses must come from 3 different rubrics or academic areas. One diversity course must be an approved Racial Issues course from the Goal 7 course choices. Completion of major courses satisfies Goal Area 3 and 4. Note that some courses fulfill two goal areas.*