

BS Science Teaching, Earth and Space Science Emphasis: 66 credits in Major	
Department of Earth and Atmospheric Sciences: Phone 320-308-3260 or dmschlumpberger@stcloudstate.edu	
Earth and Space Science Teaching Major Advisors	
Dr. Jean Hoff 320-308-5914 jlhoff@stcloudstate.edu Dr. Katherine Pound 320-308-2014 kspound@stcloudstate.edu	
First Semester	Second Semester
ASTR 106 (3cr) ¹ CHEM 210 (4cr) ^{1,2} MATH (3-5cr) CMST 192 (3cr) ³ RIS GE from Distribution area A (3cr) Total semester credits = 16 to 18	EAS 205 (5cr) ⁴ BIOL 151 or 152 (4cr) CHEM 211 (4cr) ENGL 191 (4cr) Total semester credits = 17
Third Semester	Fourth Semester
PHYS 231 (4cr) EAS 307 (3cr) ⁴ BIOL 151 or 152 (4cr) ED 300 (3cr) ³ CEEP 262 (3cr) Total semester credits = 17	PHYS 232 (4cr) EAS 230 (4cr) EAS 260 (4cr) EAS 305 (3cr) ⁵ HLTH 301 (2cr) Total semester credits = 17
Fifth Semester	Sixth Semester
ASTR 205 (4cr) PHIL 194 (3cr) EAS 381 (2cr) Democratic Citizenship 195 (3cr) GE/Diversity from Distribution area A (3cr) PESS 122 (1cr) Total semester credits = 16	⁶ EAS Elective (3cr) ^{7,8} SCI 420 (4cr) ^{3,5} HURL 497/498 (4cr) ⁵ CEEP 361 (3cr) GE/Diversity from Distribution area A (3cr) Total semester credits = 17
Seventh Semester	Eighth Semester
^{7&9} SCI 430 (4cr) ⁵ ENG/ED 460 (2cr) ⁵ SPED 425 (2cr) ⁵ ED 421/431/441 (6cr) ^{1,5} IM 422 (2cr) Total semester credits = 16	⁷ SCI 440 (3cr) ^{5&10} ED 466 (9cr) Total semester credits = 12

Notes: This program meets Minnesota Board of Teaching licensure requirements for beginning teachers of any science at the 5-8 grade levels and of earth and space science at the 9-12 grade levels. If students in this major intend to graduate in four years they must:

- NOT complete the core or general education in the first two years--they need to take the introductory science classes.
- Take EAS 205 and 307 and ASTR 205 when indicated--these are only offered one time per year and must be taken during the Spring Freshman year and Fall Sophomore year respectively. (If students find these courses closed at the time of registration they should contact the department before looking for an alternative course.)
- Be admitted to this major before the second semester of their sophomore year.
- Not need remedial work in high school math or chemistry (i.e. need MATH 070, MATH 072 or CHEM 140).

Taking some courses during summer session makes finishing the program in four years easier and may improve a student's GPA.

¹ Placement exams are required in order to enroll in any CHEM or MATH course and for IM 422. For information contact the Chemistry Department at 320-308-3031, the Math Department at 320-308-3001, and the Center for Information Media at 320-308-2062.

² Students should not take MATH/STAT 193. The recommended Math courses are MATH 112, 113, 115, or 211.

³ Taking the required courses CEEP 262 and 361 earn a 3 credit waiver of the General Education Distribution in area C. The required course HURL 497/498 also count in General Education Distribution in area C and as one of the required Diversity (MGM) courses. Students in this major need no additional General Education courses in Area C and should take their other two Diversity courses (including the Racial Issues course) in General Education Distribution area A. Students in this major will earn 9 credits of waiver in Distribution area B and do not need any general education courses in this area.

⁴ Biology 151 and 152 may be taken in any order, i.e., 151 is **not** a prerequisite for 152.

⁵ The PPST and admission to the science teaching major is required before a student can enroll in any of these courses. CPR/first aid certification required prior to ED 421/431/441.

⁶ See an Earth and Space Science Teaching Advisor for a list of recommended EAS electives.

⁷ SCI 420, 430, and 440 must be taken in order. SCI 440 must be concurrent with ED 466 (student teaching).

⁸ Earth and Space Science Teaching majors must present the results of research done during SCI 420 during a seminar the following semester.

⁹SCI 430 is only offered in the Fall.

¹⁰The morning block of ED 466 must be taken.