Earth/Space Science Major for Secondary Education

Required Courses:

___ Geol 151 (4) Introduction to Geology or Geol 153 (4) Big Sky Geology: Montana Field Experience (May Interim)
___ Geol 152 (4) Historical Geology (req: 151 or 120)
___ Geol 212 (4) Structural Geology (req: 152 or concurrent)
___ Geol 215 (4) Mineralogy (req: 151 and Chem 103)
___ Geol 251 (4) Oceanography (req: high school chemistry)
___ Geog 250 (4) Meteorology
___ Astr 211 (4) Planetary and Stellar Astronomy (req: Mat132 or 161 and one course in high school or college physics, or permission of instructor)
___ Astr 212 (4) Galactic Astronomy and Cosmology (req: Mat132 or 161 and one course in high school or college physics, or permission of instructor)
___ SCES 214 (3) Communication and Learning in the Natural Sciences (req: 3 courses in natural sciences)
___ SCES 314 (2) Integration Methods & Pedagogies for Sec. Science Teachers (req: SCES 214)
___ SCES 359 (3) Seminar in Secondary Teaching of Integrated Science

Possible electives (choose one to be approved by advisor):

___ ENST 210 (3) Human Modifications of the Global Environment (req: second-year status or higher)
___ Geog 252 (4) Geomorphology (req: 120 or 151)
___ Geog 261 (4) GIS & Cartography
___ Geol 304 (3) Geochemistry (req: 301 or 151 plus Chem 104 or permission of instructor)
___ Geol 313 (4) Paleontology (req: 152 or Biol 242 and 243 (also listed as Biol 313))
___ Geol 316 (4) Igneous and Metamorphic Petrology (req: 215)
___ Geol 317 (4) Sedimentation and Stratigraphy (req: 215 or concurrent)
___ Math/Stat 143 (4) Probability and Statistics
___ An approved elective ____________________________________________

Required Cognates:

___ Chem 103 (4) General Chemistry I
___ Math 132 (4) Calculus for Management, Life and Social Sciences (req: Math/Stat 143 or permission of instructor) OR Math 171 (4) (req: 4 yrs college prep math, excluding stats courses OR Math 110, and results of calculus readiness test administered during orientation)
___ One course in college or high school physics

FOR EDUCATION COURSES, Please refer carefully to the current Teacher Education Program Guidebook which can be viewed at http://www.calvin.edu/academic/education/programs/guidebook/guidebook.pdf

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