Week 1
Sunday, June 28 Students arrive in Bloomington for an evening meeting at 6:00 pm.

Day 1 (Monday, June 29) – Caravan to Rapid City
• Depart Bloomington at 7:00 am.
• Geology Stop at Devonian Fossil Gorge, Coralville IA
• Spend the night in Albert Lee, MN Best Western

Day 2 – (June 29) Caravan to Rapid City
• Geology Stops in Badlands NP. X429 Introductory evening lecture.
• Spend the night in Rapid City Comfort Suites

Day 3 (July 1) – Black Hills Geology
• Introduction
• Metamorphic grades
• Granite intrusions and pegmatites
• Little Elk Canyon stratigraphy and structural x-section exercise
• Spend the night in Spearfish, Holiday Inn. Regional geology lecture

Day 4 (July 2) – Powder River Basin, Big Horn Uplift
• Powder River Basin
• Buffalo Exercise
• Big Horn Mountains stops, PZ carbonates and Laramide tectonics
• Spend the night in Greybull, WY Yellowstone Motel

Day 5 (July 3) – Big Horn Basin and Beartooth Mountains
• Sheep Anticline Exercise
• Rattlesnake Mountain Exercise and Beartooth uplift lecture
• Spend the night in Cody, WY Big Bear Motel

Day 6 (July 4) – Yellowstone to IUGFS
• Yellowstone NP
  • Cenozoic volcanism lecture
  • Yellowstone caldera lecture
  • Old Faithful and hydrothermal lecture
• Hebgen Fault
• Ennis/Madison Valley – Extensional Tectonics lecture
• Arrive IUGFS

Day 7 (Sunday, July 5) – Day off at IUGFS
Week 2 (July 6-12) – Paleozoic Stratigraphy and Mt Doherty
- July 6 – South Boulder traverse
- July 7 – Sappington and x-section exercise
- July 8-10 – Mt Doherty project
- July 11 – Independent #1
- July 12 – Sunday – Day off

Week 3 (July 13-19) – Mesozoic & Cenozoic Stratigraphy and Highway 2
- July 13 – North Boulder and Sappington Mesozoic stratigraphy
- July 14 – Cenozoic stratigraphy, extensional structures, and neotectonics
- July 15-17 – Highway 2 – J-fold project
- July 18 – Independent #2
- July 19 – Day off

Week 4 (July 20-26) – Looking more regional and deeper in time
- July 20-21 – Carmichael Metamorphic project and intro to regional mapping project
- July 22-24 – Glacier trip
  - Sun River Canyon exercise, spend night in East Glacier, MT
  - Glacier NP, spend night in Kalispell, MT
  - Glacial Lake Missoula and Butte mining district, return to IUGFS
- July 25 – Finish regional mapping project
- July 26 – Independent #3

Week 5 (July 27-Aug 2) – Final Study Areas
- Monday-Saturday – Final Study Areas
- Sunday – Independent #4, concentration only students arrive

Week 6 (Aug 3-9)
- Monday (Aug 3) – X428 caravan departs for Bloomington
- Concentrations (Aug 3-7)
  - X429c/X498c – Crystalline rocks and economic geology
  - X429e/X498e – Environmental geology and hydrology
  - X429g/X498g – Geophysics (TLS-LiDAR)
  - X429r/X498s – Sedimentology and sequence stratigraphy
  - X429t/X498t – Structural Geology (balanced cross sections)
- Saturday (Aug 8) – X429 caravan departs for Bloomington