

Department of Geology
Southern Illinois University at Carbondale
 Geology 454 – Field Geology
 Summer 2008

<u>Date</u>	<u>Activity</u>	<u>Location</u>
M 16-Jun	Meet in Parkinson Laboratory, Rm. 110, at 3:00 p.m. You can store your gear in Parkinson.	Night in Carbondale on your own.
Tu 17-Jun	Leave campus at 7:00 a.m. Drive.	Camp at Sioux City, IA.
W 18-Jun	Surficial geology of the Northern Great Plains .	Camp at Cedar Pass Campground, Badlands National Park
Th 19-Jun	Geology of the White River Badlands and Black Hills .	Camp at Custer/Crazy Horse KOA, Custer, SD.
F 20-Jun	Geology of the Black Hills .	Camp at Devils Tower National Monument , Devils Tower, WY.
Sa 21-Jun	Geology of the Powder River Basin and Bighorn Mountains . Examination after supper.	Arrive at YBRA Field Station, Red Lodge, MT. Night at YBRA.
Su 22-Jun	Day off in Red Lodge.	Night at YBRA.
M 23-Jun	Learn Mississippian to Cretaceous section at Clarks Fork Canyon.	Night at YBRA.
Tu 24-Jun	One-day field problem at Gypsum Creek . Turn in map and section before leaving field.	Night at YBRA.
W 25-Jun	Measure and describe Cretaceous section at Line Creek.	Night at YBRA.
Th 26-Jun	Elk Basin . Geologic mapping on topographic base.	Night at YBRA.
F 27-Jun	Elk Basin . Continue mapping.	Night at YBRA.
Sa 28-Jun	Elk Basin . Continue mapping.	Night at YBRA.
Su 29-Jun	Day off in Red Lodge.	Night at YBRA.
M 30-Jun	Learn Precambrian to Mississippian section at South Fork Grove Creek. Introduction to aerial photographs. Elk Basin map and cross section due at 10:00p.m.	Night at YBRA.
Tu 1-Jul	Geologic mapping at Little Bear Creek . Turn in map and section before leaving field.	Night at YBRA.
W 2-Jul	Geologic mapping along Beartooth Front .	Night at YBRA.
Th 3-Jul	Geologic mapping along Beartooth Front .	Night at YBRA.

F	4-Jul	National Holiday. Day off in Red Lodge.	Night at YBRA.
Sa	5-Jul	Geologic mapping along Beartooth Front .	Night at YBRA.
Su	6-Jul	Day off in Red Lodge.	Night at YBRA.
M	7-Jul	Geologic mapping along Beartooth Front .	Night at YBRA.
Tu	8-Jul	Day in camp. Beartooth Front map, cross sections, and report due at 10:00p.m.	Night at YBRA.
W	9-Jul	Ultramafic rocks of the Stillwater Complex. Rock quiz after return to camp.	Night at YBRA.
Th	10-Jul	Visit to Stillwater Pt-Pd Mine .	Night at YBRA.
F	11-Jul	Mapping glacial and surficial deposits , East Rosebud River valley.	Night at YBRA.
Sa	12-Jul	Mapping glacial and surficial deposits , East Rosebud River valley. Map and event chronology due at 8:00 p.m.	Night at YBRA.
Su	13-Jul	Day off in Red Lodge.	Night at YBRA.
M	14-Jul	Beartooth Mts. gneisses and migmatites	Night at YBRA.
Tu	15-Jul	Absoraka and Yellowstone volcanics.	Camp in Yellowstone National Park .
W	16-Jul	Absoraka and Yellowstone volcanics.	Camp in Yellowstone National Park .
Th	17-Jul	Hebgen Lake earthquake area; Madison Canyon landslide.	Night at University of Montana-Western (UM-W), Dillon, MT
F	18-Jul	Mapping deformed Paleozoic and Mesozoic rocks , Block Mountain area.	Night at UM-W.
Sa	19-Jul	Mapping deformed Paleozoic and Mesozoic rocks , Block Mountain area.	Night at UM-W.
Su	20-Jul	Mapping deformed Paleozoic and Mesozoic rocks , Block Mountain area. Map and cross section due at 10:00p.m.	Night at UM-W.
M	21-Jul	Day off in Dillon. Travel to Craters of the Moon in evening.	Camp at Craters of the Moon .
Tu	22-Jul	Geology of Craters of the Moon National Monument and Snake River Plain.	Camp at Craters of the Moon .
W	23-Jul	Bitterroot Metamorphic Core Complex.	Camp at Hamilton, MT.
Th	24-Jul	Field measurements in the Bitterroot Shear Zone .	Camp at Hamilton, MT.

Project due at end of field work.

F	25-Jul	Belt Supergroup; glacial features in Glacier National Park.	Camp at St. Mary KOA, MT.
Sa	26-Jul	Day off in Glacier National Park.	Camp at St. Mary KOA, MT.
Su	27-Jul	Belt Supergroup; Lewis Overthrust in Glacier National Park.	Camp at Sun River Canyon, MT.
M	28-Jul	Overthrust Belt at Sun River Canyon. Examination on western Montana trip, after dinner in camp.	Night at YBRA.
Tu	29-Jul	Field course officially terminates at 8:00 a.m. Students May return to Carbondale with the SIUC vehicles or depart Red Lodge for individual destinations.	Camp en route.
W	30-Jul	Drive. Arrive in Carbondale.	