

Department of Geology - Southern Illinois University
Geology 454 - Field Geology - Summer 2017

Date Day Projects

Sun 18-Jun-17	0	Group assembly in Billings, MT (≈ 3:00 PM), drive to YBRA, Red Lodge, MT
Mon 19-Jun-17	1	Class meeting, basic orientation, geologic mapping near Gypsum Creek
Tue 20-Jun-17	2	Learn Mississippian to Cretaceous section at Clarks Fork Canyon
Wed 21-Jun-17	3	Learn Precambrian to Mississippian section at South Fork Grove Ck. ("a.k.a. Death March")
Thu 22-Jun-17	4	Laramide Tectonics of Rattlesnake Mtn., Bighorn Mtns. and Bighorn Basin
Fri 23-Jun-17	5	Gypsum Creek, geologic mapping
Sat 24-Jun-17	6	Glacial geology/geomorphology from Beartooth Pass, Red Lodge to East Rosebud Valley
Sun 25-Jun-17	7	Day off in Red Lodge, MT
Mon 26-Jun-17	8	Elk Basin, geologic mapping
Tue 27-Jun-17	9	Elk Basin, geologic mapping
Wed 28-Jun-17	10	Elk Basin, geologic mapping
Thu 29-Jun-17	11	Little Bear Creek, geologic mapping
Fri 30-Jun-17	12	Stillwater Igneous Complex rock types, stratigraphy
Sat 1-Jul-17	13	Stillwater Pt-Pd mine
Sun 2-Jul-17	14	Day off in Red Lodge, MT
Mon 3-Jul-17	15	Beartooth Front, geologic mapping
Tue 4-Jul-17	16	National Holiday - Day off in Red Lodge, MT
Wed 5-Jul-17	17	Beartooth Front, geologic mapping
Thu 6-Jul-17	18	Beartooth Front, geologic mapping
Fri 7-Jul-17	19	Beartooth Front, geologic mapping
Sat 8-Jul-17	20	Beartooth Front, map and cross-section drafting, office day
Sun 9-Jul-17	21	Day off in Red Lodge, MT
Mon 10-Jul-17	22	Yellowstone NP, Absoraka and Yellowstone volcanics, geothermal features
Tue 11-Jul-17	23	Yellowstone NP, Absoraka and Yellowstone volcanics, geothermal features
Wed 12-Jul-17	24	Hebgen Lake earthquake, Madison Canyon landslide, neotectonics
Thu 13-Jul-17	25	Grand Teton NP, extensional tectonics
Fri 14-Jul-17	26	Day off in Grand Teton NP
Sat 15-Jul-17	27	Gros Ventre landslide, Craters of the Moon NM geology
Sun 16-Jul-17	28	Craters of the Moon NM geology, drive to Dillon
Mon 17-Jul-17	29	Frying Pan Gulch, geologic mapping deformed Paleozoic and Mesozoic rocks
Tue 18-Jul-17	30	Frying Pan Gulch, geologic mapping deformed Paleozoic and Mesozoic rocks
Wed 19-Jul-17	31	Yellowstone talc mine visit and Ruby Range geology
Thu 20-Jul-17	32	Butte mineral museum visit, Berkeley pit visit
Fri 21-Jul-17	33	Day off in Dillon, MT
Sat 22-Jul-17	34	Block Mtn., geologic mapping deformed Paleozoic and Mesozoic rocks
Sun 23-Jul-17	35	Block Mtn., geologic mapping deformed Paleozoic and Mesozoic rocks
Mon 24-Jul-17	36	Block Mtn., geologic mapping deformed Paleozoic and Mesozoic rocks
Tue 25-Jul-17	37	Block Mtn., geologic mapping deformed Paleozoic and Mesozoic rocks
Wed 26-Jul-17	38	Bitterroot Metamorphic Core Complex / Shear Zone
Thu 27-Jul-17	39	Glacier NP Belt Supergroup geology; Lewis thrust
Fri 28-Jul-17	40	Day off in Glacier NP
Sat 29-Jul-17	41	Glacier NP Belt Supergroup geology, Sun River Canyon
Sun 30-Jul-17	42	travel from Sun River Canyon to Billings / End of the course
days off		
camping		