

Geology 454 - Field Geology - Summer 2018

Date Day Projects

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