

JUDSON MEAD GEOLOGIC FIELD STATION INDIANA UNIVERSITY EAS X429 – SUMMER 2018 SCHEDULE

PREREQUISITES

Students are expected to have completed at least the first two–three years of a standard undergraduate program in the geosciences. This would normally include an introductory course and two or more courses in the disciplines of mineralogy, petrology, sedimentology, stratigraphy, and structure/tectonics. Additional topical coursework is beneficial for some of the areas of concentration which are available.

WEEK ONE						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
June 17 X429 students arrive in Bloomington. Evening Meeting 6:00 PM	June 18 Caravan leaves Bloomington 7:00 AM <i>Missouri Valley, MS DeSoto Inn</i>	June 19 Badlands N.P. Arrive Rapid City, SD: X429 Introductory Evening Lecture <i>Rapid City, SD Ramada</i>	June 20 Geology of the Black Hills <i>Spearfish, SD Spearfish Travelodge</i>	June 21 Geology of the Big Horn and Owl Creek Ranges: Powder River and Big Horn Basins <i>Riverton, WY; Sundowner Station</i>	June 22 Wind River Range. Teton Range Cenozoic Geology. Yellowstone N.P. <i>Yellowstone N.P. Teton/Yellowstone</i>	June 23 Yellowstone N.P. Cenozoic Geology <i>Tobacco Root Mtns. IUGFS</i>
WEEK TWO						
June 24 OFF	June 25 Lower Paleozoic Stratigraphy of the Tobacco Root Mountains	June 26 Lower Paleozoic Stratigraphy (cont.) Introduction to Mapping on Air Photos and Topographic Maps	June 27 Reconnaissance Structural Analysis of the Mt. Doherty Area	June 28 Reconnaissance Structural Analysis (cont.) Practice Independent Field Exercise	June 29 Completion of Mt. Doherty Instructional Project	June 30 Independent Field Exercise #1
WEEK THREE						
July 1 OFF	July 2 Mesozoic Stratigraphy of the Tobacco Root Mountains	July 3 Cenozoic Extensional Basins, Tertiary Stratigraphy, Recent Seismicity	July 4 Detailed Structural Analysis of the Highway 2 Area	July 5 Detailed Structural Analysis of the Highway 2 Area Cont.	July 6 Completion of Highway 2 Area Project	July 7 Independent Field Exercise #2

WEEK FOUR

July 8 OFF	July 9 Stratigraphic Correlations	July 10 Stratigraphic Correlations	July 11 Concentration Areas: c: Crystalline Rocks and Economic Geology e: Hydrogeology and Environmental Geology g: Geophysics and Neotectonics s: Stratigraphy and Subsurface Exploration Techniques	July 12 Concentration Areas: c, e, g, s	July 13 Concentration Areas: c, e, g, s	July 14 Concentration Areas: c, e, g, s
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WEEK FIVE

July 15 OFF	July 16 Carmichael metamorphic complex	July 17 Carmichael metamorphic complex	July 18 Northwest Montana Field Trip Day 1: Sun River Canyon <i>Choteau, MT Stage Stop Inn</i>	July 19 Northwest Montana Field Trip Day 2: Glacier N.P. <i>Kalispell, MT Super 8 Kalispell</i>	July 20 Northwest Montana Field Trip Day 3: Butte, MT <i>IUGFS</i>	July 21 Independent Field Exercise #3
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WEEK SIX

July 22 Pig Roast 4:30 to 7:00	July 23 Final Study Area	July 24 Final Study Area	July 25 Final Study Area	July 26 Final Study Area	July 27 Final Study Area	July 28 Final Study Area
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WEEK SEVEN

July 29 Independent Field Exercise #4	July 30 Final Study Area (in camp)	July 31 EAS X429 students leave IUGFS <i>Kadoka, SD America's Best Value Inn</i>	August 1 <i>Coralville, IA Super 8</i>	August 2 EAS X429 students arrive back in Bloomington		
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