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### GEOL 130.01: Field Geology

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*James Sears*

THE UNIVERSITY OF MONTANA  
GEOLOGY 130  
FALL 2000

The purpose of this course is to provide hands-on experience with geological features and processes in the field. The Missoula area is richly endowed with great geological variety. Each week we will go to an area to study a geologic theme. We will usually meet at 8 or 9 am at the loading dock on the south side of the Science Complex, and travel to the field area via university vans. We usually return to campus by 5 pm. The course involves many of our faculty, so that the students have a chance to meet different professors and find out about their research interests and methods. For example, one week will concentrate on rock and mineral identification in the field, another will deal with fluvial processes, and so on. Each week a different professor will lead the field trip, but Jim Sears, SC 371, is the main co-ordinator of the course. Melanie Kay, a graduate student in geology, is the TA.

You may miss 1 trip without penalty. Each trip has a value of ten points, assessed on attendance and/or completion in the field of an assignment or quiz. The final trip (Nov. 4) will include an independent exercise, based on concepts and exercises from the other trips.

Thursday 1 pm meetings are mostly for logistical purposes to discuss the upcoming field trip, collect and return papers, etc.

Approximate schedule:

Sep	9	Geology of the UM campus	Jim Sears
	16	Fluvial processes and surveying (Turah area)	Marc Hendrix
	23	Rock and Mineral identification (Garnet area)	Gray Thompson
	30	Pace and compass mapping (Campus)	Ian Lange
Oct	7	Glacial geology (Polson area)	Dave Alt
	14	Geomorphology mapping (Jocko Valley)	Don Winston
	21	Igneous processes (Bearmouth area)	Jim Sears
	28	Structural geology (Drummond area)	Jim Sears
Nov	4	Field final	Jim Sears