

LAND USE MAJOR FOR BACHELOR OF SCIENCE – Geology Concentration

The land use major is a 65 hour extended major that combines general planning courses with a focused area of study (concentration), including environment and resources, geographic information systems, geology, or urban land use planning, linked by the vital thread of land use management. Students will receive a Bachelor of Science degree except when their concentration is urban land use planning in which case the student will receive a Bachelor of Arts degree. The major equips students with a dynamic foundation for understanding issues and solving problems that confront the community and environment, making them highly competitive in the job market. The program is broad in scope and can be applied to a number of career objectives and graduate school programs. Opportunities exist in such areas as cartography, environment and resource management, environmental science, geographic information systems, geology, mining and mineral resources, planning, population analysis, recreational land use, remote sensing, residential and industrial development, transportation, and a variety of other interrelated fields. Because the land use degree is an extended major, it does not require a minor. **Each student must have a department advisor and consult with his/her advisor regarding course work to avoid prerequisite problems.**

Required Core		Semester Hours
___	GEG 1220 Map Use	2
___	GEG 1610 Introduction to Planning	1
___	GEL 1010 General Geology	4
___	GEG 4950 Internship in Land Use	
	-or-	
___	GEL 4950 Internship in Geology	2
___	GIS 2250 Introduction to Geographic Information Systems	3
___	MTH 1210 Introduction to Statistics	4
<i>Required Core Total</i>		16
Required Concentration Courses		
___	ENV 4000 Environmental Geology	3
___	ENV 4010 Environmental Hazards and Planning	3
___	ENV 4970 Environmental Field Studies (Senior Experience)	3
___	GEL 1030 Historical Geology	4
___	GEL 3050 Mineralogy and Petrology	4
___	GEL 3060 Stratigraphy and Structure	4
___	GEL 3120 Advanced Geomorphology	4
___	GEL 3150 Hydrogeology	3
___	GEL 3420 Soil Resources	4
___	GEL 3440 Energy and Mineral Resources	4
___	GEL 4150 Hydrology	3
___	GIS 4860 Applications of ARC/INFO to Natural Resources Management.....	3
<i>Required Concentration Courses Total</i>		42
Electives (Select a minimum of 7 credit hours)		
___	ENV 1400 World Resources	3
___	ENV 3400 Water Resources	3
___	ENV 3540 Advanced Geologic and Environmental Hazards – Denver and Vicinity	2
___	GEG 1240 Landforms of the U.S.	3
___	GEL 1020 Geology of Colorado	3
___	GEL 1150 Oceanography	3
___	GEL 3510 Advanced Geology of Red Rocks Park and Vicinity	1
___	GEL 3520 Advanced Garden of the Gods – Front Range Geology	2
___	GEL 3530 Advanced Geology of the Colorado Plateau	2
___	GEL 3550 Advanced Geology of the Great Sand Dunes National Monument	2
___	GEL 3560 Advanced Canoeing the Canyon Country	2
___	GEL 3570 Advanced Geology of the Flattops Volcanic Wilderness Area	2
___	GEL 3580 Advanced Geology of the Wheeler Geologic Area	2
___	GEL 390X Advanced Topics in Geology	1 – 3
___	GIS 1710 Terrestrial Navigation	2
___	GIS 4850 Advanced Geographic Information Systems (recommended).....	3
<i>Subtotal</i>		7
Major Total		65
General Studies		33
Multicultural Requirement		3
General Electives		19
Total for Land Use Major		120