

**NRM-210 Methods in Natural Resources Management**  
**Tentative Course Schedule**  
**Fall 2011**

<b>Week of</b>	<b>Topic areas</b>	<b>Lab topic</b>
Aug. 22	Course overview: Introduction to natural resources and conservation, resource management strategies, decision-making	Lab procedures and overview
Aug. 29	Maps and geospatial analysis: Maps and map components, distance	Topographic maps, compasses, clinometers
Sept. 5	Direction, topography, geospatial description	No Lab – Labor Day
Sept. 12	Measurements and descriptive statistics Forests and forest ecology: Tree ID techniques, forests and forest stands, measuring standing trees	Investigating renewable natural resources and using GPS
Sept. 19	Forest inventory with fixed area plots	Tree height and diameter
Sept. 26	Forest stand dynamics; Silvics and silviculture	Fixed radius plot forest inventory
Oct. 3	Forest stand dynamics; Silvics and silviculture (cont.)	Spreadsheets I – Introduction to Excel
Oct. 10	Water as a renewable resource,	Stream discharge and habitat characterization
Oct. 17	the hydrologic cycle, water pollution	No Lab – Fall Break
Oct. 24	Water classification, water quality parameters, aquatic health	Assessing stream habitat quality using macro-invertebrates
Oct. 31	The scientific method, hypothesis testing, simple linear regression	Lab practical – test of field equipment use
Nov. 7	Soils: Soils and soil components, soil forming factors	Spreadsheets II – Regression analysis
Nov. 14	Soil characterization and interpretation	Soil profile description
Nov. 21	Soil characterization and interpretation (cont.)	Wildlife habitat assessment
Nov. 28	Landscape ecology and wildlife habitat: Landscape and habitat elements	Landscape ecology
Dec. 5	Wrap-up and review	No lab