Fall 9-1-2001

FOR 503.02: GIS - Methods and Applications I

Hans R. Zuuring

*University of Montana, Missoula*

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MEETINGS:  Section 1 => TueThu  2:10 - 4:00 pm  
            Section 2 => TueThu  4:40 - 6:30 pm

LOCATION:  Jour Rm. 106 forestry computer lab


OBJECTIVES:

1.  Become familiar with GIS technology through the introduction of various 
    concepts such as map projections and datums, data acquisition, editing and 
    maintenance, vector and raster data types, database management systems, 
    2D and 3D spatial analyses, spatial statistics, error propagation and data 
    visualization.

2.  Acquire "hands-on" experience through the use of self-paced tutorials and 
    associated exercises with the

   a)  INTERNET and the WWW

   b)  PCRaster

   c)  MAPINFO, a desktop mapping package

   d)  ArcGIS, a suite of widely-used popular commercial GIS programs

3.  Become familiar with EXCEL, formulas and graphing in a spreadsheet 
    environment and FOXPRO, a RDBMS.

4.  Perform various spatial analyses and explore the capabilities of GIS to serve 
    as a decision-making and planning tool for natural resources management.
**GRADING:**

Submitted Study Questions from GIS Notes .......................... 25%
Class Assignments (11 of them) ............................................. 75%

**INSTRUCTOR**

Name: Hans Zuuring  
Office: Forestry 304  
Hours: By appointment only!

Phone: 243-6456 (Office)  721-2586 (Home)

****TOPICS/EVENTS****

A. GIS NOTES on WWW - ten parts to be completed and submitted over the course of five weeks according to the following schedule:

<table>
<thead>
<tr>
<th>Item</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>Parts 1 &amp; 2</td>
<td>Thur Sept 13 @ 6 pm</td>
</tr>
<tr>
<td>Parts 3 &amp; 4</td>
<td>Thur Sept 20 @ 6 pm</td>
</tr>
<tr>
<td>Parts 5 &amp; 6</td>
<td>Thur Sept 27 @ 6 pm</td>
</tr>
<tr>
<td>Parts 7 &amp; 8</td>
<td>Thur Oct  4 @ 6 pm</td>
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<tr>
<td>Parts 9 &amp; 10</td>
<td>Thur Oct 11 @ 6 pm</td>
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B. PCRaster tutorial & assignments tentative due date: Thur Oct 25 @ 6 pm

C. MAPINFO 6.5 tutorial & assignment tentative due date: Thur Nov 15 @ 6 pm

D. ArcGIS 8.1 tutorial and a two-part assignment

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<thead>
<tr>
<th>Item</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>Part I ArcView 8.1</td>
<td>Thur Nov 29 @ 6 pm</td>
</tr>
<tr>
<td>Part II ArcInfo 8.1</td>
<td>Thur Dec 20 @ 6 pm</td>
</tr>
</tbody>
</table>