

| <u>Week</u> | <u>Dates</u>                  | <u>Lecture Topics/Reading</u>  | <u>Lab Exercises/Field Trips</u>   |
|-------------|-------------------------------|--|--|
| 1           | Aug 18                        | No class: Reading only; <b>Chap 1, Essay</b>   | No Lab week 1 (Projects Due every 3 weeks)   |
| 2           | Aug 22 – Aug 24               | Introduction; Runoff/Drainage Basins <b>Chap 11</b>  | Lab 1: ArcGIS DEM Analysis and Hydrology I: <b>Due Aug 26</b>  |
| 3           | Aug 29 – Aug 31               | Runoff/Channel Initiation <b>Chap 11, Notes</b>  | Lab 1: ArcGIS DEM Analysis and Hydrology II: <b>Due Sept 2</b>                                       |
| 4           | Sept 7<br><b>H: Sept 5</b>    | Channel Initiation, Hillslope Processes <b>Ch10, papers</b>                                | Lab 1: ArcGIS DEM Analysis and Hydrology III: <b>Due Sept 9</b><br><b>Trip: Sept 10-11 (camping)</b> |
| 5           | Sept 12-14                    | Soil Transport, Linear Diffusion, Hillslope Form <b>Ch10 304-328, 344</b>                  | Lab 2: Cinder Cone Evolution (prep)  |
| 6           | Sept 19-21                    | Non-linear Diffusion, Slope Stability Hillslope Form – <b>Ch10 328-344</b>                 | Lab 2: Cinder Cone Evolution <b>Due Sept 28</b>  |
| 7           | Sept 26-28                    | Fluvial Processes – Open Channel Flow <b>Notes, Ch12 380-396</b>                           | Lab 2: Cinder Cone Evolution <b>Due Sept 28</b><br><b>Verde River Trip: Oct 1</b>                    |
| 8           | Oct 3-5                       | Fluvial Processes, Sediment Transport and Landforms <b>Ch12 396-405, 14 452-468</b>        | Lab 3: Stream Flow, <b>Part I Due Oct 5</b><br><b>Data Sharing Due Oct 10</b>                        |
| 9           | Oct 12<br><b>FB: 8-11</b>     | River Profiles, Alluvial Fans <b>Ch12 405-411, Papers</b>                                  | Lab 3: Flood Frequency, Field Data Analysis, <b>Part II Due Oct 17</b>                               |
| 10          | Oct 17-19                     | Alluvial Fans, Air Photo Interpretation, Mapping (project) <b>Papers</b>                   | Lab 3: Stream Flow <b>Part II Due Oct 17</b>   |
| 11          | Oct 24-26                     | Alluvial Fans (project) <b>Papers</b>  | Lab 4: Death Valley Alluvial Fans <b>Due Nov 11</b>  |
| 12          | Oct 31 - Nov 2                | Alluvial Fans (project) <b>Papers</b>  | Lab 4: Death Valley Alluvial Fans <b>Due Nov 11</b>  |
| 13          | Nov 7<br><b>H: Nov 9</b>      | Erosion Rates, Soil Production and Landscape Form <b>Ch7 202-208, 328-330, Ch6 131-146</b> | Lab 4: Death Valley Alluvial Fans <b>Due Nov 11</b>  |
| 14          | Nov 14-16                     | River Incision Processes, Tectonic Geomorphology <b>Ch4 78-96, Ch13</b>                    | Lab 5: Bedrock Channel Evolution (Wednesday lab); <b>Due Dec 2</b>                                   |
| 15          | Nov 21-23<br><b>Thgiv: 24</b> | Bedrock Channel Processes and Evolution, Continued <b>Paper, Ch7 200-202, Ch8 212-232</b>  | Lab 5: Bedrock Channel Evolution <b>Due Dec 2</b>  |
| 16          | Nov 28 – Nov 30               | Interaction of Climate and Tectonics <b>Paper, Ch7 200-202, Ch8 212-232</b>                | Lab 5: Bedrock Channel Evolution <b>Due Dec 2</b>  |