

Surficial Processes
Geol3020
Fall, 2008
Lectures (Dowd)

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| Aug 19 | Introduction: Course requirements, course overview |
| Aug 21 | Climate and precipitation |
| Aug 26 | Vegetation: Interception/storage, stemflow, ET and PET |
| Aug 28 | Streamflow: Discharge and velocity, stream gauging, weirs/flumes |
| Sep 2 | Chemical reactions in the Critical Zone (Dr. Schroeder) |
| Sep 4 | Mineral Assemblages in the Critical Zone (Dr. Schroeder) |
| Sep 9 | Upland erosion processes |
| Sep 11 | Statistical hydrology: Floods and droughts |
| Sep 16 | Rainfall runoff: Processes |
| Sep 18 | Rainfall runoff: Prediction |
| Sep 23 | Groundwater: Terms and processes |
| Sep 25 | Groundwater: Hydraulic approach |
| Sep 30 | Soils - Processes |
| Oct 2 | Soils - Taxonomy |
| Oct 7 | Glacial processes |
| Oct 9 | Eolian processes |
| Oct 14 | Exam |

Labs (Dowd)

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| Aug 26 | Watershed delineation |
| Sep 2 | PET |
| Sep 9 | Field trip - Stream gauging |
| Sep 16 | Statistical analysis of flow |
| Sep 23 | Rainfall-runoff prediction |
| Sep 30 | Groundwater |
| Oct 7 | Soils field trip – Whitehall |