MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
		WEEK 1		
9 -Intro & Review; Time Scale 1- Geo X-Scn & Topo Profile; Trig; Topo & Geo Maps; Brunton; S&D Read D&R 36; 662-669 (or D, 35 52-61) HW: Trig Probs	9 - *Time Scale Quiz*; *Trig Probs due;* Thick/Depth by Trig; Ortho Proj; Block Diagrams 1- Rule of V's (topo and geo) Read D&R 684-690 (or D 61-68) HW: Thickness & Depth to Contact; Ortho Projection Prob; X-Scn #1	9 – *Ortho Proj Quiz*; *Ortho Proj Prob due;* Outcrop Patt Dip Beds; 3-Pt Probs; Struct Contour/Isopach Maps; App Dip 1- Pace & Compass Map Read D&R 669-684 (not available in D) HW: Outcrp Patt Dip Bed; X-Scn #1	9-*Outcrop of Dipping Beds Quiz*; *Apparent Dip Exer due;* Intro Seis Lines (Seis Line Pract); Intro to Stereonets 1- No Class – Work on X-Scn #1 Read D&R 691-700 (or D 68-76); hand-outs HW: Seis Line; Stereonets; X-Scn #1	9 – *Stereonet Quiz*; **X-scn #1 due**; *Stereo Exer due;* Poles to Planes on Stereonets; Stereonet Apps 1- Stereonets Exercises Read D&R 691-704 (or D 68-81) HW: stereonet exercises; X-Scn #2
		WEEK 2		
9 – *Stereonet Quiz #2*; Faults; Thrust Faults; Joints 12- **MacBride Reservoir Fieldtrip** *RD doc apt 3:15* Read D&R 204-226; 269-303; 315-371 (or D Ch. 10) HW: X-section #2; MacBride Sketch & Write-Up; Imbricated Thrust Exer	9 – *Fault Quiz; Block Diagrams due; MacBride Exer due; Imbricated Thrust Exer due*; Intro to Folds; Using Stereonets to Determine Fold Axis & Axial Plane Orientations 1- Folds & Fabric; Deformed Rocks in Hand-Sample Read D&R 150-202; 372-398; 400-403; 424-444; 456-472 (or D Ch. 7, 8, 12) HW: NM fault Determinat'n Exer (see D&R pg. 288); X-Scn #2	9 - **Rock Creek fieldtrip;** *x-sctn 2 due* Reread D&R 204-226; 269-303; 315-371 (or D Ch. 9) HW: Rock Creek Lab; Block Diag; X-scn 3	9 – *Rock Creek worksheet due*; More on thrusts, deformation fabrics, etc. 1- Work on X-Section #2 Re-read D&R (D) 372-398; 400-403; 424-444; 456-472 (or D Ch. 7, 8) HW: X-Section #3	9 – Origin of Deformation Fabrics: foliations, lineations, etc. 1 – History of PT Theory; Plate Motions; Gravity Anomalies; Igneous Activity & PT Read; Hanson & Glazner (1995); Griffin & O'Reilly (1987) HW: X-Section #3
		WEEK 3		
9 – **MIDTERM EXAM** 1 – Discuss Hanson and Glazner and Griffin and O'Reilly. Work on X-Section #3 Read –D&R 564-617 HW: X-Section #3; Re-read Hanson & Glazner (1995); Griffin & O'Reilly (1987) and write summaries	7 AM→ 8 pm - **Baraboo Fieldtrip** HW: Baraboo map and Cross-Section; X-Section #3	9 – morning off to recover from Baraboo 1- *cross-section 3 due*; Seismic Activity & PT; Continental Rifting and Extensional Tectonics Read: Baldridge & Olson (1989) HW: X-sctn 4; write summary	9 – Litho Collisions & Accretionary Tectonics; Accretion & Break-up of Conts; Subduction Tectonics; *Baraboo map and cross section due; summary of B&A due* 1-Discuss Baldridge & Olson (1989); *The Man Who Moved Mountains* video Read: Maxson & Tikoff (1996); Edmond (1992) HW: X-Section #4; write summary	9 – Isostasy, Exhumation, and Paleoclimate; summary of M&T due 1-Discuss Maxson & Tikoff (1996) & Edmond (1992) Read Lamb & Davis (2003); Molnar and England (1990); Read Molnar *Tibetan Plateau;* Molnar *Structure of Mountain Ranges;* Molnar *Himalayas* HW: Isostasy Exercise; X-Section #4; write summaries
		WEEK 4		
9 – *Isostasy exer due;* Discuss Lamb & Davis (2003); Molnar and England (1990); Molnar papers; summaries of papers due 1-TBA and work on X-sctn #4	9 – TBA 1-Review Session and work on X-sctn #4	9 – **X-scn 4 due**; **FINAL EXAM**		

TECTONICS
Fall 2011

Professor: Rhawn Denniston **Office**: 202 Norton **Phone**: x4306 (W); 319-350-7074 (H) **Office Hours**: 11-12; 3-4 daily RDenniston@cornellcollege.edu

Text and Readings
Structural Geology of Rocks and Regions, Davis (and Reynolds), 1st or 2nd editions
various articles

Grading Scheme
25% Midterm Exam 25% Final Exam 10% Exercises 10% Summary Papers[1] 15% Cross-sections 10% Quizzes[2] 5% Participation[3]

Academic Policies
Late Work - Assignments are to be completed as scheduled. If unable to meet a deadline due to a college-sanctioned excuse, see me IN ADVANCE of the deadline. For late work, scores will be reduced by 25% for each day after the deadline.
Cheating – Don't even think about it. You must do all assignments (homeworks, papers, cross-sections, problem sets, exams, quizzes, etc.) entirely on your own unless I give you permission to work together. See *The Compass* for specifics or see me with any questions.

Class Requirements
Textbooks, calculator, protractor, and Brunton (assigned) are required in class each day.

Academic Honesty
Cornell College expects all members of the Cornell community to act with academic integrity. An important aspect of academic integrity is respecting the work of others. A student is expected to explicitly acknowledge ideas, claims, observations, or data of others, unless generally known. When a piece of work is submitted for credit, a student is asserting that the submission is her or his work unless there is a citation of a specific source. If there is no appropriate acknowledgement of sources, whether intended or not, this may constitute a violation of the College's requirement for honesty in academic work and may be treated as a case of academic dishonesty. The procedures regarding how the College deals with cases of academic dishonesty appear in The Compass, our student handbook, under the heading "Academic Policies – Honesty in Academic Work."

Students with Disabilities
Students who need accommodations for learning disabilities must provide documentation from a professional qualified to diagnose learning disabilities. For more information see cornellcollege.edu/disabilities/documentation/index.shtml. Students requesting services may schedule a meeting with the disabilities services coordinator as early as possible to discuss their needs and develop an individualized accommodation plan. Ideally, this meeting would take place well before the start of classes. At the beginning of each course, the student must notify the instructor within the first three days of the term of any accommodations needed for the duration of the course.

[1] Summary papers are short (<1 pg per article) single-spaced summaries of the readings. They will be turned in after class but will be used to remind you of the issues, dates, problems, etc. discussed in the readings and will therefore help you to contribute to our class discussions. The papers will be graded based largely on how well they define the important issues of the paper. Questions, thoughts, and points for discussion should be included in these papers and then raised during our class time. A small portion of the grade will be based on the quality of the writing. Papers riddled with misspellings, improper grammar, and/or punctuation mistakes will returned ungraded.

[2] Quizzes will start promptly at 9:15 am and will end at 9:20 am. If you are late to class, you will not be given extra time to finish the quiz. If you miss class because of a school-sanctioned excuse, that day's quiz will not be factored into your final grade.

[3] Participation involves contributing in a *responsible* and *thoughtful* way to lectures, discussions, fieldtrips, etc.