**Course Syllabus (tentative schedule subject to change)**

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|  | **Topics (subject to revision)** | Reading | Assignment Due |
| Class: Week of August 27 | T: Course overview & syllabus, Intro to Plant Ecology  R: Intro to Plant Community Ecology/ Article Discussion | R: Kelly and Goulden 2008 (plant migration, climate change, gradients) | T: In-Class Worksheet  R: Reading Questions |
| **FIELD TRIP: September 1st**  **9am-430pm** | **Plant Community Data Collection** |  |  |
| **Class:** Week ofSeptember 3 | T: Gradient Analysis/Pattern  & Process  R: Article Discussion/Intro stats/PC-Ord | R: Lortie et al. 2004 (neutral and niche theory, plant interactions) | T: In-Class Worksheet  R: Reading Questions |
| **Class:** Week ofSeptember 10 | T/R: Gradient Analysis/ Plant Life History Traits  R: Article Discussion/Lab: Intro to Community Data/PC-Ord | R: Fukami et al. 2005 (assembly rules, alternative states, succession) | T: In-Class Worksheet  R: Reading Questions |
| **Class:** Week ofSeptember 17 | T: Plant Life History Traits/Competition  R: Lab: Start Plant Competition Greenhouse Experiment | R: Plant competition lab notes (course packet info) | T: In-Class Worksheet  R: Greenhouse |
| **Class:** Week of September24 | T: Competition/FacilitationR: Article Discussion/Lab: PC-Ord | T: Craine 2005 (plant strategies, competition, stress)  R: Callaway et al. 2002 (facilitation, environmental stress); | T: Reading Questions  R: Reading Questions |
| **Class:** Week ofOctober 1 | T: Article Discussion/Lab: PC-Ord  **R: EXAM** | T: le Roux and McGeoch 2010 (stress gradient hypothesis) | T: Reading Questions  **R: EXAM** |
| **Class:** Week ofOctober 8 | T: Fire Ecology: Fire Science 101  R: Article Discussions | R: Davis et al. 2000 (invasions, resource availability, disturbance);  Callaway et al. 2008 (novel weapons hypothesis, invasions, mycorrhizae) | T: In-Class Worksheet  R: Reading Questions |
| **Class:** Week of October 15 | T: Lab: Harvest Plants/Record Measurements  R: Article Discussion/Additional Greenhouse Time | R:Diz et al. 2010 (enemy release hypothesis, invasions, plant-soil feedbacks | T: Greenhouse  R: Reading Questions |
| **Class:** Week ofOctober 22 | T/R: Fire Ecology: Pinyon-Juniper  R: Fire Ecology Ponderosa Pine Article Discussion/PC-Ord or succession video | R: Fule 2008 (reference conditions, fire ecology, restoration) | T:In-Class Worksheet  R:Reading Questions |
| **Class:** Week of October 29 | T: Fire Ecology: Mixed Conifer  R: Fire Ecology: Subalpine | T: Levine & HilleRisLambers 2009 (niche differences, biodiversity)    R: Scheonnegal et al. 2007 (fire ecology, climate change) | T: Reading Questions,  In-Class Worksheet (in class)  R: In-Class Worksheet, Reading Questions, **PC-Ord report due** |
| **Class:** Week ofNovember 5 | T: Dendrochronology    R: **EXAM** |  | T: In-Class Worksheet  R: **EXAM** |
| **Class:** Week ofNovember 12 | T: AlpineR: Alpine Article Discussion | T: Suding et al. 2004 (alternative states, feedback loops, restoration)  R: Kikvidze et al. 2005 (competition, facilitation, climate change) ;  Aldridge et al. 2011 (plant-climate interactions, pollinators, phenology) | T: Reading Questions  R: Reading Questions |
| **Class:** Week of November 19 | **NO CLASS-Happy Thanksgiving!** |  |  |
| **Class:** Week ofNovember 26 | Student Presentations |  | T/R: Powerpoint Presentation |
| **Class:** Week ofDecember 3 | No Class—credit for field trip |  | **R: Competition report due** |
| **Final Exam: December 13th THURSDAY @ 2 pm** |  |  |  |