

Plant Biology 631 Winter 2005

Instructor: David Somers 054 Rightmire Hall (292-2551)
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Office hours: Tuesdays 11-12 and by appointment

Text: Plant Physiology 3rd edition Taiz and Zeiger (<http://www.plantphys.net/>)

Course structure: Lecture MWF, 11:30-12:18 pm

Two midterms and one final; each worth 1/3 of final grade. Final is comprehensive but will emphasize the last third of the course. The material will closely follow the text, but with ample supplemental information.

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| 3-Jan Cell walls: Chap. 15 | 11-Feb Brassinosteroids/Abscisic acid:
Chap. 23 |
| 5-Jan Cell walls/ Intro to growth and development
Chap. 16 | 14-Feb Abscisic acid |
| 7-Jan Embryogenesis | 16-Feb Plant photoreceptors /
phytochrome: Chap. 17 |
| 10-Jan Meristems / control of plane of division | 18-Feb <i>Midterm II</i> |
| 12-Jan Shoot development | 21-Feb Phytochrome |
| 14-Jan Secondary growth / Root development | 23-Feb Blue light responses: Chap. 18 |
| 17-Jan Holiday: no class | 25-Feb Blue light responses/clock |
| 19-Jan Root development | 28-Feb Circadian clock |
| 21-Jan Cell differentiation / Plasmodesmata | 2-Mar Flowering : Chap. 24 |
| 24-Jan Intro: hormones / Auxins: Chap. 19 | 4-Mar Flowering : photoperiodism |
| 26-Jan <i>Midterm I</i> | 7-Mar Flowering : development |
| 28-Jan Auxins | 9-Mar Senescence |
| 31-Jan Ethylene: Chap. 22 | 11-Mar Stress physiology: Chap. 25 |
| 2-Feb Ethylene/Gibberellins: Chap. 20 | |
| 4-Feb Gibberellins | |
| 7-Feb Cytokinins: Chap. 21 | |
| 9-Feb Cytokinins/Brassinosteroids | |