

Biology 252: *Syllabus*

Instructor: Jason Hill - jdhill@stolaf.edu

Office hours: T 9:30 - 10:30, Th 10:00 - 11:00 and 2:15 - 3:00, and by appointment

Schedule: Lecture: T 8:00 - 9:25; Th 8:00 - 9:20

Laboratory: T 1:20 - 4:20

Attendance: Students are expected to be present and on time. Arrangements for excused absences must be made well in advance. Please contact me, either directly or through the Dean of Students Office, as soon as possible in cases of illness or other unexpected circumstances.

Materials: Raven, P.H., R.F. Evert, and S.E. Eichhorn. 1999. Biology of Plants. Sixth Edition. W.H. Freeman.
Rathke, D.M. 2001. Minnesota Trees. University of Minnesota Extension Service BU-00486-S.
Other handouts and papers will be distributed individually.

Website: Handouts will also be available at the website: <http://www.stolaf.edu/courses/current/Biology/252/>

Goals: During this semester, we will learn ways to classify plants by looking at the local vegetation, investigate how the structures of plants relate to their abilities to grow and reproduce under a variety of conditions, and survey plant diversity by identifying major events and innovations in their evolutionary history.

Grading: Assignments must be handed in on time. Unexcused late work will incur a penalty of 10% a day.

<i>Assignment</i>	<i>%</i>
Plant of the Day (4 x 2.5%)	10
Plant ID Key	5
Plant ID Exam	5
Midterm	15
Final	20
Paper #1 (Morphology)	20
Paper #2 (Systematics)	20
Participation (Quantity and Quality)	5

Honor: St. Olaf's Honor System is a code of conduct which recognizes the responsibility of students to exercise honesty and independence while taking examinations, and this trust is an extension of the spirit of integrity which students, faculty, and staff strive to incorporate into their lives each day.

Schedule:

Date	Lecture Topic	Lab Topic	Assignments Due
Th 9/4	Introduction		
<i>Minnesota Plant Identification</i>			
T 9/9	Classification	Tree Identification	
Th 9/11	Plant Identification		
T 9/16	Plant ID Key Creation	Plant ID Key Creation	
Th 9/18	Plant ID Exam		Plant ID Key
<i>Morphology and Anatomy</i>			
T 9/23	Seeds / Germination	Seeds / Germination	
Th 9/25	Cells / Tissues		
T 9/30	Roots	Cells / Tissues & Roots	
Th 10/2	Shoots		
T 10/7	Secondary Growth	Shoots & Secondary Growth	
Th 10/9	Leaves		
T 10/14	Flowers	Leaves & Flowers	
Th 10/16	Flowers		
Th 10/23	Seeds / Fruits		Paper #1 Part A
T 10/28	Review	Midterm Exam	
<i>Systematics and Evolution</i>			
Th 10/30	Cladistics		
T 11/4	Cladistics	Phylogeny Part I	Paper #1 Part B
Th 11/6	Molecular Systematics		
T 11/11	Speciation	Phylogeny Part II	
Th 11/13	Non-Vascular Plants		
T 11/18	Seedless Vascular Plants	Plants Without Seeds	Paper #2 Part A
Th 11/20	Gymnosperms		
T 11/25	Angiosperms	Gymnosperms / Angiosperms	
T 12/2	Angiosperms	Angiosperms	
Th 12/4	Angiosperms		
T 12/9	Review	Review	Paper #2 Part B
M 12/15	Final Exam (9:00 - 11:00)		