

EEB340H1S Comparative Plant Morphology

Lecture M,W 1-2, 3087 ESC; Lab Th 9-12, 3088 ESC

**LECTURE AND LABORATORY SCHEDULE
WINTER/SPRING 2015**

WEEK OF:	LECTURE	LAB
JAN 5	Introduction Geological Time and Temporal Origins of Land Plants	Plant Diversity and Geological Time
JAN 12	Origin of Land Plants: Evolution of Meristems And Parenchymatous Growth	Origin of Land Plants
JAN 19	Evolution of Vascular Tissue: Xylem	Evolution of Vascular Tissue
JAN 26	Evolution of Vascular Tissue: Phloem Evolution of Leaves	Bryophyta and Lycophyta Diversity and Vegetative Morphology
FEB 2	Evolution of Leaves Evolution of Roots	Pterophyta Diversity and Vegetative Morphology

FEB 9 **Review Lecture For Exam 1** **Cycadophyta, Ginkophyta, and Coniferophyta Diversity and Vegetative Morphology**

LECTURE EXAM 1, Feb 11

FEB 16-20 **READING WEEK**

FEB 23 **Evolution of Alternation Of Generations** **Alternation of Generations in Bryophyta, Hepatophyta, and Anthoceroophyta**

Lab Exam 1, in lab

MAR 2 **Gametophytes of of Seedless Vascular Plants** **Alternation of Generations in Pterophyta and Lycophyta**

Fertilization in Seedless Vascular Plants

MAR 9 **Evolution of the Ovule** **Comparative Reproductive Morphology of Cycadophyta, Ginkgophyta, and Coniferophyta**

Gametophytes of Cycadophyta, Ginkgophyta, and Coniferophyta; Fertilization

MAR 16 **Anthophyta: Private Life of Plants** **Pollination in Anthophyta**

**Gametophytes/fertilization
In Angiosperms**

MAR 23	Gametophytes/fertilization In Angiosperms	Field trip to Allen
MAR 30	Gametophytes/fertilization In Gnetophyta	Lab Exam 2, in lab
	Review Lecture For Exam 2	

LECTURE EXAM 2: Finals week, to be announced.

INSTRUCTOR:

**Tammy Sage – Room 2079 Earth Science Center, 416- 978-7660
Office Hours - by appointment**

GRADING:

**2 Lecture Exams at 30% each
2 Laboratory Exams at 20% each**

Make-up exams will only be given to individuals who have official University of Toronto medical documentation. Make-up exams must be taken within one week of missed exam.

There is no official text for this course. However, selected readings from the following texts are available in ESC Library. The following texts from which these readings have been obtained have also been put on hold :

Terrestrial Ecosystems Through Time. 1992. A.K. Behrensmeier, J.D. Damuth, W.A. DiMichelle, R. Potts, HD Sues, S.L. Wing. The University of Chicago Press.

Morphology and Evolution of Vascular Plants. 1996. E.M. Gifford, A.S. Foster. W.H. Freeman and Co.

Plants Invade the Land. 2001. P.G. Gensel, D. Edwards. Columbia University Press

Origin of Land Plants. 1993. L. Graham. John Wiley & Sons

The Evolution of Plant Physiology. 2004. A.R. Hemsley, I. Poole. Elsevier Academic Press.

The Origin and Early Diversification of Land Plants. 1997. P. Kenrick, P.R. Crane. Smithsonian Institution Press.

Phylogeny and Evolution of Angiosperms. 2005. D.E. Soltis, P.S. Soltis, P.K. Endress, M.W. Chase. Sinauer Associates, Inc.

The Evolution and Palaeobiology of Land Plants. 1987. B.A. Thomas, R.A. Spicer. Croom Helm Ltd.

The Evolution of Land Plants. 2002. K.J. Willis, J.C. McElwain. Oxford University Press.