

<i>Week</i>	<i>Date</i>	<i>Topic</i>	<i>Chapter</i>
1	Jan 13	Botany: An Introduction	1
	Jan 15	Molecular Composition of Plants Cells	2
	Jan 17	Molecular Composition of Plants Cells	2
2	Jan 20	NO CLASSES -- Dr. Martin Luther King Day	
	Jan 22	The Plant Cell and the Cell Cycle	3
	Jan 24	The Plant Cell and the Cell Cycle	3
3	Jan 27	The Movement of Substances In and Out of Cells	4
	Jan 29	Plants and People	21
	Jan 31	Plants and People (Critical Thinking Assign.#1 due)	21
4	Feb03	DNA Structure and DNA Replication	9
	Feb 05	DNA Structure and DNA Replication	9
	Feb 07	Protein Synthesis	9
5	Feb 10	Protein Synthesis	9
	Feb 12	EXAM #1	
	Feb 14	Current Topic in Botany (TBA)	<i>not in text</i>
6	Feb 17	Sexual Reproduction and Heredity	8
	Feb 19	Systematics and Taxonomy	12
	Feb 21	Systematics and Taxonomy	12
7	Feb 24	Cells and Tissues of the Plant Body	23
	Feb 26	Cells and Tissues of the Plant Body	23
	Feb 28	The Root: Structure and Development	24
8	Mar 02	The Root: Structure and Development	24
	Mar 04	The Shoot: Stems and Leaves	25
	Mar 06	The Shoot: Stems and Leaves	25
9	Mar 09-13	NO CLASSES -- SPRING BREAK	
10	Mar 16	Secondary Growth in Stems	26
	Mar 18	Secondary Growth in Stems	26
	Mar 20	EXAM #2	
11	Mar 23	Cellular Respiration	6
	Mar 25	Cellular Respiration	6
	Mar 27	Photosynthesis	7
12	Mar 30	Photosynthesis, cont.	7
	Apr 01	The Process of Evolution	11
	Apr 03	The Process of Evolution	11
13	Apr 06	Nonvascular Plants	16
	Apr 08	Nonvascular Plants	16
	Apr 10	Seedless Vascular Plants	17
14	Apr 13	Seedless Vascular Plants (Critical Thinking Assign.#2 due)	17
	Apr 15	EXAM #3	
	Apr 17	Gymnosperms	18
15	Apr 20	Gymnosperms	18
	Apr 22	Angiosperms	19, 20
	Apr 24	Angiosperms	19, 20
16	Apr 27	Current Topic in Botany (TBA)	<i>not in text</i>
	Apr 29	Wrap up and Review	
	Friday, May 01	FINAL EXAM 10:15-12:15	

STUDENT LEARNING OUTCOMES (SLOs)

The graduating biology student graduating with a BS in Biology should be able to:

- 1) The student will be able to demonstrate an understanding of basic biological concepts, including but not limited to evolution via natural selection, cell theory, and the role and function of DNA.
- 2) The student will be able to demonstrate utilization of various field techniques toward addressing scientific questions in the specific discipline. These field techniques can include, but are not limited to, plant collection and processing, various animal collection techniques, ecological surveying and sampling, and biodiversity indexing.
- 3) The student will be able to use biological instrumentation to solve biological problems using standard observational strategies.
- 4) The student will develop writing skills by summarizing and critiquing recent relevant biological literature.

MARKETABLE SKILLS: A student getting a degree in the Biological sciences would be expected to acquire the following marketable skills by graduation.

- 1) Students will be able to organize, analyze, and interpret data.
- 2) Students will be proficient at using presentation software.
- 3) Students will acquire experience in managing time and meeting deadlines.
- 4) Students will gain the ability to speak effectively and write concisely about scientific topics.
- 5) Students will acquire experience and guidance in the development of professional email correspondence.

CORE OBJECTIVES ADDRESSED:

- Team Work
- Communication
- Critical Thinking Skills
- Empirical and Quantitative Skills
- Social Responsibility
- Personal Responsibility

ADA (Americans with Disabilities Act) Sul Ross State University is committed to equal access in compliance with the Americans with Disabilities Act of 1973. It is the student's responsibility to initiate a request for accessibility services. Students seeking accessibility services must contact the Counseling and Accessibility Services, Ferguson Hall, Room 112. The mailing address is P.O. Box C-122, Sul Ross State University, Alpine, Texas. Telephone: 432-837-8691.