

## Schedule for Botany (BIOL 250), Spring 2020 - Dr. Seiger (Nov 2019)

Week	Date	Day	Lecture Topic	Lab Exercise
<b>1</b>	2/3	Mon	Introduction to The Course, Biological Diversity	Introduction to Plants/ Using a Microscope; Campus walk
	2/5	Wed	Chemistry Basics, Plant Cells	Viewing Plant Cells; Osmosis
<b>2</b>	2/10	Mon	Plant Tissues	Plant Tissues; Mitosis slides; Bean Germination
	2/12	Wed	Organs: Roots	Organs: Roots
<b>3</b>	2/17	Mon	HOLIDAY	
	2/19	Wed	Organs: Stems, <b>Project #1 Draft Due</b>	Organs: Stems; pinch prune plants and set up phototropism for G&D
<b>4</b>	2/24	Mon	Organs: Leaves	Organs: Leaves
	2/26	Wed	<b>Lab Test 1 - 9:00 am sharp! Project #1 Due</b>	Scientific Method, Enzymes, Planting Activity ( <b>BYO container</b> ); start gibberellic acid experiments for G&D
<b>5</b>	3/2	Mon	<b>Lecture Exam 1 - 9:00 am sharp!</b>	FIELD TRIP TO BALBOA PARK
	3/4	Wed	Plant Metabolism: Cellular Respiration	Cellular Respiration
<b>6</b>	3/9	Mon	<b>LAB TEST 2A</b> ; Plant Metabolism: Photosynthesis	Photosynthesis
	3/11	Wed	Mineral Nutrition and Soils	Soils
<b>7</b>	3/16	Mon	<b>LAB TEST 2B</b> ; Transport and Translocation	Transpiration Rate; invert tomato plants, and place pea seeds in petri dishes for G&D
	3/18	Wed	Growth & Development, Mitosis & Meiosis	Growth & Development: Mitosis slides
<b>8</b>	3/23	Mon	<b>LECTURE EXAM 2 &amp; LAB TEST 2C</b>	TBA
	3/25	Wed	Patterns of Inheritance (Mendelian genetics)	Genetics (dry lab)
<b>9</b>	3/30	Mon	SPRING BREAK	
	4/1	Wed		
<b>10</b>	4/6	Mon	Molecular Basis of Inheritance	DNA extraction and TBA
	4/8	Wed	Genetic Frontiers	<b>Project 2 PRESENTATIONS</b>
<b>11</b>	4/13	Mon	Flowers, Fruits and Seeds	Flowers, Fruits and Seeds
	4/15	Wed	Ecology - overview and symbioses	Natural Selection Activity; analyzing and graphing data; Start allelopathy experiments
<b>12</b>	4/20	Mon	Evolution	Alelopathy results, film
	4/22	Wed	FIELD TRIP TO MISSION TRAILS REGIONAL PARK	
<b>13</b>	4/27	Mon	<b>LAB TEST 3 (9:00 am sharp!) &amp; LECTURE EXAM 3</b>	Scientific Names and Classification lecture and activity
	4/29	Wed	Fungi & Lichens	Fungi & Lichens
<b>14</b>	5/4	Mon	Viruses & Prokaryotes	Cyanobacteria & Photosynthetic Protists
	5/6	Wed	Algae special topic: Kelp Forests	FIELD TRIP TO TOURMALINE SURF PARK
<b>15</b>	5/11	Mon	Nonvascular Plants (Bryophytes)	Nonvascular Plants (Bryophytes)
	5/13	Wed	Seedless Vascular Plants	Seedless Vascular Plants
<b>16</b>	5/18	Mon	Gymnosperms	Gymnosperms
	5/20	Wed	Angiosperms	Angiosperms
<b>17</b>	5/25	Mon	FIELD TRIP TO SAN DIEGO BOTANICAL GARDENS (Fee) - optional, with review session and lunch	
	5/27	Wed	<b>LAB TEST 4 - 9:00 am sharp!</b>	<b>LECTURE EXAM 4: after lab test</b>