***Biology 101 Plant Biology SBCC Spring 2018***

***Instructor:*** Eric Wise ***Office****:* EBS 305

***Phone:*** 965-0581 ext. 2517 (or ext. 2311 to reach Chelsea in the Biology Office – EBS 212)

***email****:* wise@sbcc.edu

***Office hours:*** T/Th: 9:45 a.m. – 12:15 p.m.

Lec M W 9:35 a.m. – 10:55 a.m.

Lab 54952 M 11:10 a.m. – 2:15 p.m.

Lab 54953 M 2:30 p.m. – 5:35 p.m.

Lab 54951 W 11:10 a.m. – 2:15 p.m.

Lab 63543 W 2:30 p.m. – 5:35 p.m.

***Introduction:*** Welcome to Plant Biology! This course covers plant structure and function, the diversity and evolution of plants and plant-like organisms. This is a 4-unit course consisting of two lectures and one, 3-hour lab per week. You must attend lab as it is an integral part of the course. Prerequisites are MATH 107 or MATH 111 and Skills Advisories are Eligibility for ENG 110 or ENG 110H or ENG 110GB. This course is required for the Biological Sciences major and it satisfies the SBCC General Education requirement in Natural Sciences.

***Lecture Text:*** *Raven Biology of Plants*. Ray Evert, Susan Eichhorn. 8th Ed., W. H. Freeman and Co.

Text Features:

 Chapter outline at beginning of each chapter

 Checkpoints

 End of chapter summary and review questions

Book web site: www.whfreeman.com/raven8e

***Grading:***  The final course grade you receive will be dependent on the total number of points that you earn overall in the course. The number of points for the course is set at 700. The final grades are NOT curved but based on the points listed below. You are guaranteed the letter grade if you obtain at least the minimum points possible for that grade. Lecture exams may have multiple choice, matching, or short essay questions. Bring a Scantron form #882E (50 points per side) and a #2 pencil to all of the lecture exams. The material in the lecture exams may come from material covered in lecture, text book readings, and from lab material. In the lab portion of the class there will be lab quizzes and some material to hand in. Lab quizzes typically come from material learned in the previous lab week.

There are no specific extra credit assignments given in the course. If you are having trouble with the material assigned in the course you do not need to receive additional work. Please put your effort into studying the material for the class to do the best that you can. Occasionally I may provide small extra credit assignments but these are few in number and at my discretion.

***Grades*** *Points*

 Lecture exams 325

Research paper 100

Class participation 100

Lab material – Lab quizzes 100

 Lab book 75

Total 700

 Grades are based on the following points and percentages:

 GRADE PERCENTAGE POINTS

 A 90-100 630-700

 B 80- 89 560-629

 C 70- 79 490- 559

 D 60-69 420-489

 F 0- 59 0-419

Failure in the lab portion of the class may result in the failure of the course overall. You do not need Scantron forms for lab. The points for a grade may be lowered at my discretion but they will never be raised.

***Electronic Devices*:** Please turn off and put away your cell phones, computers, tablets, etc. before you arrive to class. Phones ringing in class are annoying. Texting, checking messages, emails, and web surfing are disruptive. *Using personal electronic devices in class will be treated as disruptive behavior and will reduce your class participation score.* This includes lab time and time in the field as well. Please talk to me if you have special circumstances or needs regarding electronic devices.

***Students with Special Needs:*** SBCC students with verified disabilities who are requesting academic accommodations should use the following procedure:

**Disabled Services and Programs for Students (DSPS) coordinates all academic accommodations for students with documented disabilities at Santa Barbara City College. If you have, or think you might have, a disability that impacts your educational experience in this class please contact DSPS to determine your eligibility for accommodations. DSPS is located in the Student Services (SS) Building, Room 160. Their phone number is 805-730-4164. If you are already registered with DSPS please submit your accommodation requests via the ‘DSPS Online Services Student Portal’ as soon as possible. This needs to be done each semester.  If you have any questions or concerns about your accommodations, please make an appointment with a DSPS Counselor. Please complete this process in a timely manner to allow adequate time to provide accommodation.**

***Attendance and Participation:***  You should attend all the lectures and labs and participate in class. Please show up on time for class. Coming in late is disruptive and will impact negatively on your grade. Any absence that occurs from class must have appropriate documentation. The final exam is scheduled for May 7, 2018. If you cannot take the exam at this time then you should drop this course.

There is a high correlation between not attending class and not receiving a satisfactory grade in the course. It is so important for you to attend class that **you will risk being dropped if you miss more than any part of two class meetings (lecture and/or lab) before the drop deadline**. However it is YOUR responsibility to drop if you decide to no longer attend. This is especially important around the drop deadline (Mar. 16, 2018). If you have other commitments (work, travel, etc.) that will interfere with the time needed for this course then you should consider taking this course at another time. You need to be involved in the material and the only way to succeed in this way is to attend as much of the course as you can.

**You must be present during all exams and quizzes**. If you are hospitalized or have an emergency before an exam then leave a message by phone or email on the day of the exam or before, and let me know how I can get in touch with you. If you do not show up for a lecture exam and I do not hear from you on that day expect to receive a zero for that exam.

***Academic Honesty:***  Fairness in completing this course is important in maintaining the academic community. Students who try to circumvent the rights of fair play violate this trust. Therefore the work done by you in this class should be done by you, the individual student. Cheating on exams, removal of any exam from the lecture or lab room, removal of models, charts, lab materials, etc. will not be tolerated. Any material that is handed in to me for a grade must be in your own words. Copying from another student or plagiarizing published material may result in zero points for that assignment. Changing answers on exams after they have been handed back will result in a zero for that exam and a note sent to the dean of students.

***Rights and Responsibilities:*** Please read the college catalog (https://catalog.sbcc.edu/). This document states the position of the college concerning your responsibilities as a student at SBCC and your rights.

**Student Learning Outcomes:**

1. Explain the anatomy and morphology of plants and plant-like organisms as well as the functional characteristics of these organisms including their physiology and adaptation to the environment.

2. Describe the diversity of existing and fossil plants and plant-like organisms including lifecycles and relationships with one another.

3. Discuss, from a scientific perspective, the molecular nature of living organisms including their chemical composition, replication, and growth.

**Important Dates**

Sat. Jan 27 Last Day to Drop without “W”

Mon. Feb 19 Washington’s Day holiday

Fri. Mar. 16 Last Day to withdraw

Fri. May 11 Commencement

**NEW Tentative Lecture Schedule**

**Date Topic Pages in Raven**

**January**

M 22 Introduction 234-235

W 24 Fire/Flood Ecology

M 29 Overview of Course, Chemistry 2-14, 18-35

W 31 Chemistry 18-35

**February**

M 5 Plant Cells 38-62

W 7 Tissues 538-555

M 12 **Exam 1A** – 25 points – Roots 558-576

W 14 Metabolism, Respiration 95-96, 99-105, 107-117

M 19 Holiday

**W 21 – Exam 1B**

M 26 Leaves 590-604, 607-612

W 28 Photosynthesis 122-147

**March**

M 5 Stems: Primary and Secondary 583-588, 614-634

W 7 Water and Solutes 75-81, 708-726

M 12 Hormones 638-658

W 14 Flowers, Seeds, & Development 460-474, 492-496, 604-607, 526-536

M 19 Evolution 209-212

W 21 Speciation and Adaptation 212-230

M 26 – Spring Break

W 28 – Spring Break

**April**

M 2 Diversity and Systematics 236-246

**W 4 – Exam 2**

M 9 Prokaryotes 247-248, 256-267, 269-270

W 11 Algae 1 250-254, 345-346, 348-358

M 16 Algae 2 326-333, 335-345, 358-363

W 18 Fungi 278-285, 288-315

M 23 Bryophytes and Ferns 366-389, 391-427

W 25 Gymnosperms 430-454

M 30 Angiosperms 457-460, 477-485, 487-492

**May**

W 2 Plant Ecology Online Chapter 31

M 7 Biomes

W 9 Biomes

**M 14 – Final Exam 8 a.m.**

**NEW Tentative Lab Schedule**

**January**

22-24: Introduction to Lab, Cells, Microscopes

29-31: Genetics

**February**

5-7: Roots and Respiration

12-14: Leaves and Photosynthesis

19-21: Presidents’ Day Holiday – Field Trip Lake Los Carneros

26-28: Primary Stems, Plant Nutrients

**March**

5-7: Secondary Stems

12-14: Flowering Plants, Flowers, Fruits

19-20: Osmosis, Diffusion, Hormones

26-28: Spring Break – No Labs

**April**

2-4: Bacteria, Slime molds

9-11: Algae 1

16-18: Algae 2 - Beach Walk

23-25: Fungi, Lichens

**May**

Apr. 30-May 2: Bryophytes and Ferns

7-9: Gymnosperms, Angiosperms

Santa Barbara Community College District

**EXCURSION AND FIELD TRIP WAIVER**

<http://www.sbcc.edu/adminservices/SBCC%20FieldTripWaiver_web.pdf>