

**General Biology Syllabus**  
**BSCC 1010-02M (face-to-face)**  
**Fall 2011**

**Instructor:** Dr. Ashley Spring

**Classroom:** Melbourne, Building 5, Rooms 114 (Mondays) and 223 (Wednesdays)

**Class time:** Mondays and Wednesdays 8:00 a.m. to 10:15 a.m.

**Office hours:** Melbourne, Building 5, Room 142, scheduled office hours or by appointment

**Phone:** 433-5935

**Email:** springa@brevardcc.edu

**Text:** Reece JB, Urry LA, Cain ML, Wasserman SA, Minorsky PV, Jackson RB. 2010. Campbell Biology, Ninth Edition. Benjamin Cummings. ISBN 9780321558145 (hardcopy or ebook)

**Lab manual:** McDonald P, Smith W. 2011. Biology 1010 Lab Manual, Brevard Community College Melbourne Campus. Hayden-McNeil Publishing. ISBN 9780738041964

**Course description:** An introduction to principles of biology to include a study of cell structure, function and reproduction; inheritance; development; metabolism; photosynthesis; evolution; and DNA technology. 4 credit hours.

**Course objectives:** (1) To promote and develop an appreciation and respect for the biological world. (2) To develop an awareness of the relationships existing between the biological and physical worlds and their interrelationships. (3) To understand the position and role of humans as related to the environment and way of life. (4) To understand the major basic biological principles. (5) To develop skills of observation, perception, and reasoning. (6) To promote skills and knowledge that will better enable you to effectively participate in events that have bearing on your own life.

**Course work:** Course work includes reading assigned textbook chapters and articles, performing lab exercises, participating in discussions and field trips, completing chapter quizzes on Angel and exams.

**Grading:**

Lecture Exams	500 points (100 points each)	90-100% A
Labs/Discussions/Field Trips	300 points (20 points each, best 15)	80-89% B
Chapter Quizzes (on Angel)	100 points (10 points each, best 10)	70-79% C
<u>Laboratory Exam</u>	<u>100 points</u>	60-69% D
Total	1000 points	<60% F

**Late assignments:** Ten percent will be deducted from an assignment grade each class that the assignment is late.

**Attendance:** You are expected to attend every class. You are responsible for obtaining missed notes and completing missed assignments. There are NO makeup labs and NO makeup exams. In the event of a documented emergency, you must make arrangements and complete the exam within one week of the missed exam. "Excessive Absences" is defined as being absent more than 15% of class meetings and will result in a grade of "F".

**Withdrawal:** If you feel you can no longer meet the responsibilities of the class, it is your responsibility to withdraw by 8/19/11 for a full refund or by 10/31/11 for a grade of "W". Students who have received financial aid and withdraw or stop attending without withdrawing are liable for repayment of federal funds received.

**Academic dishonesty:** Students involved in cheating, plagiarism, and other forms of academic dishonesty will fail the course. Refer to the Student Code of Conduct.

**Questions? Concerns? Need help?** Contact me during class, office hours, or by email.

**BSCC 1010 General Biology**
**\*\*UPDATED 9/19/11\*\***

DATE	TOPIC	CHAP	DUE
8/15	Introduction Study of Life	1	<b>Chapter quizzes (on Angel) due 1 week after chapter lecture</b>
8/17	The Chemical Context of Life	2	
8/22	Water and Life	3	
8/24	Laboratory safety Carbon and the Molecular Diversity of Life	4	
8/29	Structure & Function of Biological Molecules	5	
8/31	LAB 1: Metric Measurement		
9/5	HOLIDAY		
9/7	EXAM I: Chapters 1, 2, 3, 4, 5 LAB 2: Organic Compounds		Labs due: 1
9/12	Phylogeny A Tour of the Cell	26.1 6	
9/14	LAB 3: Carbon Compounds		
9/19	Membrane Structure and Function	7	
9/21	LAB 4: Microscopy		
9/26	An Introduction to Metabolism	8	
9/28	EXAM II: Chapters 26.1, 6, 7 LAB 5: Cell Diversity		Labs due: 2, 3, 4
10/3	Cellular Respiration and Fermentation	9	<i>register for Service Learning</i>
10/5	LAB 6: Osmosis and Diffusion		
10/10	Photosynthesis	10	<i>approve Service Learning location</i>
10/12	LAB 7: Enzyme Specificity		
10/17	The Cell Cycle Meiosis and Sexual Life Cycles	12 13	
10/19	EXAM III: Chapters 8, 9, 10 LAB 8: Cellular Respiration		Labs due: 5, 6, 7
10/24	Mendel and the Gene Idea	14	
10/26	LAB 9: Photosynthesis		
10/31	The Chromosomal Basis of Inheritance LAB 11: Genetics	15	
11/2	Animal Reproduction LAB 10: Mitosis and Meiosis	46	
11/7	video: Conception to Birth EXAM IV: Chapters 12, 13, 46, 14, 15		Labs due: 8 (40 pts), 9 (40 pts), 10, 11
11/9	FIELD TRIP: Biological Diversity		
11/14	The Molecular Basis of Inheritance	16	
11/16	video: Cracking the Code of Life LAB 12: Evolution		<i>approve Service Learning final project</i>
11/21	From Gene to Protein DISCUSSION: Stem Cell Research	17	Discussion questions: Stem Cell
11/23	HOLIDAY		
11/28	DISCUSSION: Evolution The Evolution of Populations	22 23	Discussion questions: Evolution
11/30	LABORATORY EXAM		Labs due: 12 <i>Service Learning journal &amp; project</i>
12/5	<b>8-10 am</b> EXAM V: Chapters 16, 17, 22, 23		Extra credit due by start of class

Note: Dr. Spring retains the right to make schedule changes and will announce changes during class.

## **BSCC 1010 General Biology**

### **Angel Online Classroom**

Throughout the semester, I will post announcements, quizzes, grades, review sheets, resources, helpful hints, assignments, and more on our Angel Classroom. During the first week of classes, please make sure that you can access our Angel Classroom. Let me know if you have any problems.

To access Angel, complete the following steps:

1. In the internet address bar, type **http://brevardcc.angellearning.com/** OR **http://www.brevardcc.edu** and click on “Angel” in the left column OR through “MyBCC”.
2. Type in your username and password. Then click “Log On”. Access to our Angel Classroom is only available to students registered for the course.

Use your B# as your Username – get it from your registration form or from your BCC ID. It is case sensitive, so the B has to be capitalized.

Use your birthday as your password. For example, the password for someone born on March 3, 1985 is 030385.

3. Once you have logged on, click on “**General Biology**” under the course menu. Under the course menu you will see a list of all of the courses in which you are enrolled that use Angel.
4. In the menu on the top, click on:
  - “Course” for **announcements**
  - “Syllabus” for **syllabus** and **schedule**
  - “Lessons” for **quizzes, review sheets, course documents, and drop box**
  - “Resources” for links
  - “Communicate” for communication with me or your classmates
  - “Report” for **grades**

5. To email me, you have two options: (1) email me at [springa@brevardcc.edu](mailto:springa@brevardcc.edu) from your email account, or (2) click on “Communicate” in Angel. When using either method, make sure to include your first and last name in the email.

6. To send me a file, you have two options: (1) attach the file to an email and send it to me from your email account, or (2) click on “Drop Box” and attach the file before clicking “send”.

Let me know if you have any problems or contact the **BCC Tech Desk 433-7600** [itsupport@brevardcc.edu](mailto:itsupport@brevardcc.edu) for assistance.

## BSCC 1010 General Biology

### 5<sup>th</sup> Credit Option - Service Learning

*Volunteer and service-learning experiences are reciprocally beneficial for both the community and students. For many community organizations, students augment service delivery, meet crucial human needs and provide a basis for future citizen support. For students, community service is an opportunity to enrich and apply classroom knowledge; explore careers or majors; develop civic skills, enhance personal growth and self-image; develop job links; and most of all foster in students a concern for social responsibility and commitment to human service. – Center for Service Learning*

You may earn a **5<sup>th</sup> credit hour** in this course through service learning.

#### Purpose:

- Earn 1 elective credit in biology
- Document service hours on your academic transcript
- Enrich course content
- Explore a career/major
- Help your community
- Apply course concepts
- Develop knowledge and skills
- Establish community/job contacts
- Improve self confidence
- Develop life and occupational skills

#### Requirements:

- Minimum of 20 hours of community service
- Maintain a journal of volunteer activities and reflections
- Attend a one-hour reflection seminar with the Center for Service Learning
- Complete a final volunteer project synthesizing your volunteer activities

#### Details

- 1 academic elective credit hour (BSCC 2948)
- Deadline to register for 1 credit hour is approximately February, May, and October
- Students pay the normal fee for the 1 credit hour course
- You will receive a separate grade for the elective one credit hour course
- Students can take this elective one credit hour course up to three times for credit

#### Steps

- Let Dr. Spring know you are interested in the 5<sup>th</sup> credit hour
- Contact the Center for Service Learning (433-5610, building 10, room 213, [www.brevardcc.edu/csl](http://www.brevardcc.edu/csl))
- Complete a service learning contract with the Center for Service Learning
- Register for 1 credit hour in BSCC 2948
- Talk with the Center for Service Learning and Dr. Spring about volunteer locations
- **Get Dr. Spring's approval on a volunteer location**
- Volunteer while simultaneously keeping a journal of your activities and reflections
- **Get Dr. Spring's approval on a final volunteer project** (such as a paper, presentation, or poster)
- Attend a one-hour reflection seminar with the Center for Service Learning
- Turn in your final paperwork to the Center for Service Learning and Dr. Spring
- **Turn in your journal and final volunteer project to Dr. Spring due by the last class before final exam week**