BSC2010C Principles of Biology I (420351)

PROFESSOR INFORMATION

David P Byres
david.byres@fscj.edu

Instructor Response
You can anticipate responses to inquiries and questions within 24-48 hours of receipt.

Campus Information
My office is room D-119, South campus, 11901 Beach Blvd, Jacksonville, 32246

OFFICE HOURS

<table>
<thead>
<tr>
<th>Days</th>
<th>Hours</th>
<th>Campus</th>
<th>Room</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>11:15a.m. – 12</td>
<td>South</td>
<td>D-119</td>
<td>(904) 646-2038</td>
</tr>
<tr>
<td>Thursday</td>
<td>noon</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Course Description
Description: This course, an introduction to the principles of biology, includes studies of cellular organization, genetics and evolution. This course fulfills the General Education Requirements and the laboratory requirement needed by many students who plan to transfer to a four-year institution.
Prerequisites: None
Corequisites: None.
Degrees Offered: A.A., A.S.

Course Information

<table>
<thead>
<tr>
<th>Course Number / Title:</th>
<th>BSC2010C/Principles of Biology I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Number:</td>
<td>420351</td>
</tr>
<tr>
<td>Number of Credit Hours:</td>
<td>4.00</td>
</tr>
</tbody>
</table>
Term / Year / Session / Length: Summer/2015/A/8

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Begins</td>
<td>05/06/2015</td>
</tr>
<tr>
<td>100% Refund Deadline</td>
<td>05/13/2015 7:00 PM (ET)</td>
</tr>
<tr>
<td>Non-Attendance Drop</td>
<td>05/21/2015 7:00 PM (ET)</td>
</tr>
<tr>
<td>Withdraw with &quot;W&quot; Deadline</td>
<td>06/09/2015 7:00 PM (ET)</td>
</tr>
<tr>
<td>Class Ends</td>
<td>06/28/2015</td>
</tr>
</tbody>
</table>

College Holiday(s)

5/25/2015

Technical Maintenance

These dates are critical for this course. Additional critical dates for this course can be found by clicking the appropriate term links in the online calendar (http://www.fscj.edu/mydegree/academics/calendar/) at the Florida State College at Jacksonville Website.

COURSE LOCATION

<table>
<thead>
<tr>
<th>Location</th>
<th>Room</th>
<th>Times</th>
<th>Days</th>
<th>Session Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOUTH CAMPUS</td>
<td>D0202</td>
<td>12:00 PM - 2:15 PM</td>
<td>Tuesday Thursday</td>
<td>05/06/2015 - 06/28/2015</td>
</tr>
<tr>
<td>South campus</td>
<td>TBA</td>
<td>TBA</td>
<td>Online</td>
<td>05/06/2015 - 06/28/2015</td>
</tr>
</tbody>
</table>

INSTRUCTIONAL MATERIALS AND EQUIPMENT

TEXTS: South campus BSC 2010C Lab manual (Required)
Campbell Biology; ISBN# 1256651370 (Optional)

Homepage: http://web.fscj.edu/David.Byres
Required Text / Materials

**** South campus BSC 2010C Lab manual (available only from South campus book store) ****

TECHNOLOGY REQUIREMENTS
Reliable and consistent computer and Internet access is encouraged to successfully participate in and complete online courses. Ensure that your computer meets the minimum system requirements noted below and on the Florida State College at Jacksonville Distance Learning/Online Courses site. Please use the following checklist to determine your computer readiness.
You should own or have access to:
• An email account
• Computer with high speed access to the Internet
• Access to College computers when needed
• Virus-checking software
• Word-processing software
• Software and plug-Ins that may include (choose the titles for the free downloads)
  o Adobe Acrobat Reader (http://get.adobe.com/reader/)
  o Flash Player (http://get.adobe.com/flashplayer/completion/activex/?a=true)
  o RealPlayer (http://www.real.com/realplayer)
  o Shockwave Player (http://get.adobe.com/shockwave/)

It is a good idea to check your computer at the beginning of each course and a couple of times throughout the term to ensure you have all the necessary software and plug-ins to use the Blackboard online system and course features. After logging in to Blackboard, choose the Browser Checker link. Review the results and choose the links to the recommended software.

Please note that you will need to turn off your pop-up blocker to use all features of this online course.

COURSE INFORMATION

1. **General outline**: This course is a 4 credit hour, 5 contact hour course. Typically you have 3 hours of lecture a week, and 2 hours of lab. In this hybrid course, the lecture part is done online, but **you must attend the labs at South Campus (room D-202) on Tuesdays and Thursdays from 12 noon to 2:15p.m.**

2. **Attendance**: Attendance will be noted at every lab and lecture test during the semester. See the schedule for details. If you have **3 absences during the semester, you will be withdrawn from the course (FN grade : fail due to non-attendance)**. Cell phones must be switched off during class.

3. **E-mail**: In this hybrid course E-mail will be an important method of communication. In any E-mail please include your name and the course (Hybrid BSC 2010C) at the bottom of the E-mail. Both E-mail and discussion forums require that you follow standard rules of "netiquette": do not write any offensive material. Any student that ignores this requirement will be withdrawn from the class. **Note**: all E-mail sent out from the Blackboard website will go to your FSCJ student E-mail account. Make sure you check your FSCJ E-mail at least twice a week.

4. **Tests**: You will take **6 lecture tests** during the semester. To study for the lecture tests, you should read print out the essential notes. **The lecture tests are based on the material in the essential notes**. Tests will include a variety of questions: multiple choice, fill in the blank, matching, write a
sentence etc. Each lecture test is worth 50 points and has 50 questions. Sample test questions are available [here](#). See the [schedule](#) to find out the date of each test and the chapters covered.

You will take **two lab tests** at South Campus. These will be during the **regularly scheduled lab times**. The lab tests will be based on the labs you do every week. Half of the questions in the lab tests will be answered in groups (pairs), and the other half will be answered individually. If you are **absent** for two or more labs per half-semester you will do the lab test individually; your lab partner will work with another group.

**5. Group work**: you will be randomly assigned to a lab partner in each half of the semester. During lab periods you and your partner will work together and answer written questions at the end of the lab.

**6. Discussion Board**: During the semester there will be several group discussions on the Blackboard website, where you will comment on recent news reports relating to Biology. Your grade will be based on the thoroughness, accuracy and insightfulness of your answers.

**7. Worksheets**: Internet exercises will be used to supplement the lecture book. You will use the Internet to answer the questions. You will do 8 exercises, each worth 4 points. **Note**: this is individual work, so you need to do this work yourself. If two students hand in exactly the same answers they will both get 0 points for the worksheet. Late work will not be accepted.

**8. Points**: 6 lecture tests (50 points each) = 300 points  
2 lab tests (50 points each) = 100 points  
Group lab work = 36 points  
Discussion Board = 32 points  
Workbook exercises = 32 points  
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Total points = 500 points

**9. Grades**: NP grades will not be given for this course. Students who are currently getting a passing grade and have completed 75% of the course, but are unable to complete the course may request an incomplete ("I") grade. The request for the “I” grade must be in writing, and handed in two weeks before the end of the semester.

**Grade Scale**:

<table>
<thead>
<tr>
<th>POINTS</th>
<th>GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>450 – 500</td>
<td>A</td>
</tr>
<tr>
<td>400 – 449</td>
<td>B</td>
</tr>
<tr>
<td>350 – 399</td>
<td>C</td>
</tr>
<tr>
<td>300 – 349</td>
<td>D</td>
</tr>
<tr>
<td>0 – 299</td>
<td>F</td>
</tr>
</tbody>
</table>

**10. Important reminders**: Once you start the course, check the "Announcements" section of the Blackboard online course website **at least twice a week** as this will have reminders about work that is due, and any changes to the schedule.
11. **Assistance**: In case of absence, or if you are having difficulty with the course, please contact me for additional help. You may come to my office during office hours, or E-mail me, or phone me at 646-2038. Also, the Learning Center at South campus (G-300) has free tutoring and is open 8a.m. to 8p.m. Monday - Thursday and 8a.m. to 2p.m. Friday.

If you must miss a lab class due to sickness, unexpected work demands or other unforeseen emergency, phone 646-2038, or E-mail me before the start of class to get an excused absence.

12. **Disabled students** should contact Nicole Dyer at 646-2191.

13. **Repeating class**: Students may repeat a course in an attempt to improve a grade previously earned. State Board Rule 6A 14.0301 limits such attempts to courses where a D, F or FN grade was earned, and limits to two the number of times a course grade may be forgiven. The official grade and the grade used in calculating the GPA shall be the last grade earned in the course. In other words a student may not repeat a course for which they have received a "C" grade or better.

A student may have only three total attempts in any course, including the original grade, repeat grades and withdrawals. Upon the third attempt in a course, the student must be given an A, B, C, D or F. A fourth attempt may be allowed only through an academic appeals process based on major extenuating circumstances. **On the 3rd attempt out-of-state tuition is charged, which is about four times the in-state tuition.**

14. **Institutional Effectiveness**: Student work in this class may be collected by the College for the purpose of assessing the institutional effectiveness and measuring general education competencies. The artifacts collected and submitted for this purpose will be done so anonymously.

15. **Explanation of grades.**

**NA Policy (Drop for Non-Attendance)**

This is a mandatory process performed by all instructors to stop unnecessary financial aid debt. The non-attendance window (time frame for online input), which is the first window to open for each 4, 8, 12 and 16-week session, allows faculty to select students who have not attended at least one of the first two class meetings. By selecting one or more students, the instructor drops him/her from the class roster. The drop process refunds money to the payment source, i.e. student, financial aid, veterans, third party.

16. **Learning Outcomes**

1. Explain and apply major concepts in biological chemistry, cell structure and physiology, cell division, Mendelian and molecular genetics, and evolution.
2. Demonstrate knowledge of scientific method. Formulate problem, make observations, derive and test hypothesis and make conclusions.
3. Communicate scientific ideas through oral or written assignments. Written reports and/or oral presentations demonstrate ability to communicate scientific ideas.
4. Interpret scientific models such as formulas, graphs, tables and schematics, draw inferences from them and recognize their limitations. Written reports of lab experiments and/or written tests demonstrate student competency in the
5. Demonstrate problem solving methods in situations that are encountered outside of the classroom.
6. Demonstrate proper laboratory technique including safety in the use and care of laboratory equipment and materials. Results from laboratory work and experiments demonstrate student competency in laboratory technique.
## CALENDAR OF ACTIVITIES

### Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Tuesday</th>
<th>Thursday</th>
<th>Lecture notes</th>
<th>Internet Worksheets</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5/5</td>
<td>No class</td>
<td>Orientation</td>
<td>1: Life 2: Atoms &amp; Bonds</td>
<td>2: Atoms &amp; Bonds</td>
</tr>
<tr>
<td>2</td>
<td>5/12</td>
<td>Lab 1: Atoms &amp; Bonds</td>
<td>Test 1 Lab 2: Macromolecules</td>
<td>5: Organic Molecules 6: Cells</td>
<td>3: Organic molecules</td>
</tr>
<tr>
<td>3</td>
<td>5/19</td>
<td>Lab 3: Microscopes</td>
<td>Test 2 Lab 4: Diffusion</td>
<td>7: Membranes 8: Metabolism</td>
<td>6: Enzymes</td>
</tr>
<tr>
<td>4</td>
<td>5/26</td>
<td>Lab 5: Respiration</td>
<td>Lab Test 1</td>
<td>9: Respiration 10: Photosynthesis</td>
<td>8: Photosynthesis</td>
</tr>
<tr>
<td>5</td>
<td>6/2</td>
<td>Lab 6: Photosynthesis</td>
<td>Test 3 Lab 7: Mitosis</td>
<td>12: Mitosis &amp; cancer 14: Genetics</td>
<td>9: Mitosis</td>
</tr>
<tr>
<td>6</td>
<td>6/9</td>
<td>Lab 8: Plant genetics</td>
<td>Test 4 Lab 9: Human genetics</td>
<td>15: Human genetics 16: DNA</td>
<td>11: Human genetics</td>
</tr>
<tr>
<td>8</td>
<td>6/23</td>
<td>Test 6</td>
<td>Lab test 2</td>
<td>22: Evolution</td>
<td>13: Evolution</td>
</tr>
</tbody>
</table>

### FN GRADE - FAILURE FOR NON-ATTENDANCE

A Failure for Non-Attendance (FN) grade indicates that a student has failed a course due to non-attendance. It is calculated as an “F” in the student’s grade point average. For students receiving financial aid, failure for non-attendance may require the student to refund to the College all or part of his or her aid. The FN grade will be assigned by the faculty member at any time following the final
withdrawal date for the course. See the College’s page on Grading policies (http://fscj.edu/grading) for more information.

COURSE GUIDELINES & POLICIES

ACADEMIC DISHONESTY
Academic dishonesty, in any form, has severe consequences. Visit http://www.fscj.edu/academicdishonesty to view FSCJ’s academic dishonesty definitions and procedures.

LATE MAKEUP WORK
If a student misses a lecture test, they must contact the instructor and arrange to complete a make-up test before the next class period.

Students will get no credit for late assignments or Discussion Board comments.