BSC2010C Principles of Biology I (454437)

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.

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>8:30 – 9:00 a.m.</td>
<td>South</td>
<td>D-119</td>
<td>(904) 646-2038</td>
</tr>
<tr>
<td>Thursday</td>
<td>8:30 – 9:00 a.m.</td>
<td>South</td>
<td>D-119</td>
<td>(904) 646-2038</td>
</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>454437</td>
</tr>
<tr>
<td>Number of Credit Hours:</td>
<td>4.00</td>
</tr>
<tr>
<td>Term / Year / Session / Length:</td>
<td>Summer/2017/A/7</td>
</tr>
<tr>
<td>Class Begins</td>
<td>05/15/2017</td>
</tr>
<tr>
<td>100% Refund Deadline</td>
<td>05/22/2017 9:00 PM (ET)</td>
</tr>
</tbody>
</table>
### Non-Attendance Drop
05/31/2017 9:00 PM (ET)

### Withdraw with "W" Deadline
06/15/2017 9:00 PM (ET)

### Class Ends
07/02/2017

### College Holiday(s)
5/29/2017

### Technical Maintenance
5/27/2017, 5/29/2017, 6/17/2017 from 9:00 PM - 6/18/2017

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>D0211</td>
<td>09:00 AM - 11:50 AM</td>
<td>Tuesday</td>
<td>05/15/2017 - 07/02/2017</td>
</tr>
<tr>
<td>SOUTH CAMPUS</td>
<td>D0211</td>
<td>09:00 AM - 11:50 AM</td>
<td>Thursday</td>
<td>05/15/2017 - 07/02/2017</td>
</tr>
<tr>
<td>SOUTH CAMPUS</td>
<td>TBA</td>
<td>TBA</td>
<td>Online</td>
<td>05/15/2017 - 07/02/2017</td>
</tr>
</tbody>
</table>

### INSTRUCTIONAL MATERIALS AND EQUIPMENT

If you have not done so already, obtain your textbook and related course materials. Visit your nearest campus bookstore or order online via the student portal, Connections (http://connections.fscj.edu), or the Follett Online Bookstore (http://fscj.bkstr.com). Be sure to order using your course and instructor's name and the six-digit course reference number. Please note that some courses, particularly math and science, may require a text plus additional software or a publisher Web access code. If purchasing a used text, be sure to check on and obtain all required materials.

**Required Text / Materials**

BSC 2010C South campus lab manual
ONLINE DELIVERY SYSTEM
This course will be delivered using the Blackboard Learn™ course management system.

Blackboard™ Supported Browsers for Blackboard Version 9.1 SP7
View Blackboard’s (http://kb.blackboard.com/pages/viewpage.action?pageId=84639794) Supported Browsers and Operating Systems page to see if your browser and operating system are compatible. Please note the following when reviewing the Blackboard compatibility ratings.

Certified: 100% Compatible
Compatible: Compatible in most areas, but could have some incompatibility issues
Unsupported: Not tested and not recommended

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.

ACCESSIBILITY
Florida State College at Jacksonville recognizes the importance of assisting and encouraging all students to reach their full potential. In accordance with the Americans with Disabilities Act (ADA), the Americans with Disabilities Act as amended in 2008, and Section 504 of the Rehabilitation Act of 1973, the College ensures that its admission requirements are uniformly applied, and that its services, activities, facilities and academic programs are accessible to and usable by all qualified students. The Office of Services for Students with Disabilities (OSSD) implements and coordinates reasonable accommodations and disability-related services to promote full participation of individuals with disabilities in all aspects of life.
The Rehabilitation Act defines a disability as an individual who has a physical, mental, or learning disability, which substantially limits one or more major life activity (i.e., seeing, hearing, speaking, walking, sitting, standing, breathing, reading, writing, or performing mathematical calculations, and caring for oneself); or who has a record of such impairment; or who is regarded as having such impairment. Both the impairment and the limitation of a major life activity must be established to be eligible under the ADA.

**COURSE INFORMATION**

**INSTRUCTOR:** Dr. David Byres  
**Phone:** (904) 646-2038

**OFFICE:** D-119 (South Campus)  
**Email:** David.Byres@fscj.edu

**HOME PAGE** (Website) : [http://web.fscj.edu/David.Byres](http://web.fscj.edu/David.Byres)

**TEXT:** BSC 2010C South campus lab manual (available from South campus bookstore)

1. **General outline:** This course is a 4 credit hour, 5 contact hour course. There are no course prerequisites. Typically, in a 7-week course you would have 6 hours of lecture a week, and 4 hours of lab. In this hybrid course, the lecture part is done mainly online, but you must attend class at South Campus on Tuesdays and Thursdays from 9:00 a.m. - 11:45 a.m.

2. **Attendance:** Attendance will be noted at every class 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). Electronic devices, such as 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 in 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 from Blackboard will be sent to your FSCJ E-mail account, not your private (such as Gmail) 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 print out and study 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. The lecture tests will normally be taken at South Campus during regular class times (see the schedule to find out the date of each test and the chapters covered). If you miss a test, you must Email me and make arrangements to complete the make-up test before the next class meeting.

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. You cannot make up a lab test.
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 weekly group discussions on the Blackboard website, where you will comment on recent news reports relating to Biology. The deadline for submitting your initial comment is midnight on Thursday every week.

7. **Worksheets:** Internet exercises will be used to supplement the lecture book. You will use the Internet to answer the questions. 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.

8. **Points:**

   - 6 lecture tests (50 points each) 300 points
   - 2 lab tests (50 points each) 100 points
   - Group lab work 44 points
   - Discussion Board 28 points
   - Worksheet exercises (4 points each) 28 points
   - **Total points 500 points**

9. **Grades:** 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.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percent</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 - 100 %</td>
<td>450 – 500</td>
</tr>
<tr>
<td>B</td>
<td>80 - 89.9 %</td>
<td>400 – 449</td>
</tr>
<tr>
<td>C</td>
<td>70 - 79.9 %</td>
<td>350 - 399</td>
</tr>
<tr>
<td>D</td>
<td>60 - 69.9 %</td>
<td>300 – 349</td>
</tr>
<tr>
<td>F</td>
<td>0 - 59.9 %</td>
<td>0 – 299</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, or E-mail me , or phone me at (904) 646-2038. If you must miss a lab class due to sickness, unexpected work demands or other unforeseen emergency, phone 646-2038 before the start of class to get an excused absence.

12. **Other information:** a) Students with disabilities should contact the office for special accomodations (phone 646-2191). b) Academic dishonesty, in any form, is expressly prohibited by the rules of the District Board of Trustees of Florida State College. c) Free tutoring is available in the South campus Learning center (G-300), phone: 646-2258.
13. **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.

14. **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.
3. Communicate scientific ideas through oral or written assignments.
4. Interpret scientific models such as formulas, graphs, tables and schematics, draw inferences from them and recognize their limitations.
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.

**Schedule of lecture tests**

The lecture tests are based on these [essential notes](http://web.fscj.edu/David.Byres/summer2010scheda7.html). The schedule for lecture tests is shown below. Unless other arrangements are made, the lecture tests will be taken at **South Campus** during regular class hours.

<table>
<thead>
<tr>
<th>WEEK</th>
<th>DATE</th>
<th>DAY</th>
<th>TEST</th>
<th>CHAPTERS COVERED (Lecture notes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>5/25</td>
<td>Thurs</td>
<td>1</td>
<td>1 , 2</td>
</tr>
<tr>
<td>3</td>
<td>5/30</td>
<td>Tues</td>
<td>2</td>
<td>5 , 6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>NOTE: This test is on Tuesday.</strong></td>
</tr>
<tr>
<td>4</td>
<td>6/8</td>
<td>Thurs</td>
<td>3</td>
<td>7 , 8 , 9</td>
</tr>
<tr>
<td>5</td>
<td>6/15</td>
<td>Thurs</td>
<td>4</td>
<td>10, 12, 14</td>
</tr>
<tr>
<td>6</td>
<td>6/22</td>
<td>Thurs</td>
<td>5</td>
<td>15, 16</td>
</tr>
<tr>
<td>7</td>
<td>6/29</td>
<td>Thurs</td>
<td>6</td>
<td>17, 20, 22</td>
</tr>
</tbody>
</table>

**Schedule**

*We meet in D-211 (South Campus) every Tuesday and Thursday for lab.*

The schedule is available online at:

<table>
<thead>
<tr>
<th>Date (Tues)</th>
<th>Labs</th>
<th>Lecture notes</th>
<th>Internet worksheet</th>
</tr>
</thead>
</table>
| 5/16       | **Tues:** Atoms  
**Thurs:** Macromolecules | Chapter 1: Life  
Ch 2: Atoms and  
Bonds | 1: Scientific method |
| 5/23       | **Tues:** Microscopes  
**Thurs:** Lecture test  
1 Lab: Diffusion | Ch 5: Organic  
molecules  
Ch 6: Cells | 3: Organic molecules |
| 5/30       | **Tues:** Lecture test  
2 Respiration  
**Thurs:** Lab test  
1 | Chapters 7, 8, 9 | 6: Enzymes |
| 6/6        | **Tues:** Photosynthesis  
**Thurs:** Lecture test  
3 Lab: Mitosis | Ch 10: Photosynthesis  
Ch 12: Mitosis | 9: Mitosis and cancer |
| 6/13       | **Tues:** Plant genetics  
**Thurs:** Lecture test  
4 Lab: Human genetics | Chapters 14, 15, 16 | 11: Human genetics |
| 6/20       | **Tues:** Electrophoresis  
**Thurs:** Lecture test  
5 Lab: Evolution | Ch 17: RNA  
Ch 20: Biotechnology | 12: Biotechnology |
| 6/27       | **Tues:** Lab test  
2 **Thurs:** Lecture test  
6 | Ch 22: Evolution | 14: Human evolution |

**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](http://fscj.edu/grading)) for more information.
I GRADE - INCOMPLETE
Incomplete (I) grades may be awarded based on the criteria in the College catalog. See the College's page on Grading policies (http://fscj.edu/grading) for more information.

REPEATING THE COURSE
You may repeat a course in an attempt to improve a grade previously earned. However, you are limited in your attempts to courses where a “D,” “F,” or “FN” grade was earned. You have only three total attempts in any course, including the original grade, repeat grades, and withdrawals. Upon the third attempt in a course, you must be given an “A,” “B,” “C,” “D” or “F”.
When you repeat a course at Florida State College, only the last grade earned is calculated in your cumulative grade point average (GPA). If you have an excessive number of “W” or “FN” grades and repeat courses to improve your GPA, you may jeopardize your admission to programs in the Florida State University System (SSU) or other institutions.

ACADEMIC DISHONESTY
Academic dishonesty, in any form, has severe consequences. Click here to view FSCJ’s academic dishonesty definitions and procedures.

LATE MAKEUP WORK
If you miss a test, you must Email me and make arrangements to complete the make-up test before the next class meeting.