

**FLORIDA KEYS COMMUNITY COLLEGE  
DIVISION OF ARTS AND SCIENCES  
DEPARTMENT OF NATURAL SCIENCES  
COURSE SYLLABUS**

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## **I. Course Information**

<b>COURSE NUMBER</b>	BSC 1010L
<b>COURSE TITLE</b>	Principles of Biology I
<b>PREREQUISITES</b>	None
<b>COREQUISITES</b>	BSC 1010
<b>CREDIT HOURS</b>	3.0
<b>CONTACT HOURS</b>	45

**II. Course Method** This is a traditional course, designed to meet face to face in D-109 on Wednesdays from 14:00 – 15:45 for the entire fall term (August 22 – December 10, 2011)

**III. Instructor** Dr. Bill Irwin  
[William.Irwin@fkcc.edu](mailto:William.Irwin@fkcc.edu)  
Office: C-223 (Office phone # 305-809-3129)  
Office Hours: TBA

**IV. Description** An laboratory overview of the structural, ultrastructural, chemical, genetic, developmental and physiological realms of living organisms.

**V. College-Level Competencies** Florida Keys Community College graduates who complete the core curriculum possess the knowledge, skills and values associated with college-educated individuals. Our graduates demonstrate mastery of competencies integrated within the academic disciplines, such as the ability to effectively communicate, seek creative solutions to problems, exhibit cultural awareness, and command basic technological skills.

1. **Communication:** Comprehend and articulate effectively – written and oral communication
2. **Critical thinking:** Demonstrate mastery of problem-solving skills in the discipline
3. **Diversity:** Interpret and evaluate societal and ethical issues, problems and values
4. **Technology:** Utilize technology effectively

## **VI. Course Calendar**

The Course Calendar provides the lecture schedule, assigned reading in the textbook and student assessments that comprise this course on a weekly basis. Pay close attention to the “Student Assessment” column, as it lists all exams and graded assignments with due dates: missing a class does not exempt you from assignments or exams. There are a total of 1000 points available in this course, but they are not evenly distributed by week. Please see the course policies below for more information.

**N.B.: The course schedule is subject to change to meet the needs of the course and its students. If you miss a class, it is your responsibility to obtain notes from a classmate and any assignments from me.**

Competency	Week	Learning Outcomes	Learning Activities	Student Assessments	Points
1, 2,4	<i>Week 1: 24 Aug</i>	1. Scientific units, notation and the metric system. 2. Introduction to light microscopy	Lab Exercise #1	Lab Assignment due at beginning of next lab session	10
1, 2,4	<i>Week 2: 31 Aug</i>	1. Further exploration of light microscopy	Lab Exercise #2	Lab Assignment due at beginning of next lab session	10
	<i>Week 3: 7 Sep</i>	Properties of water; solutions, pH	Lab Exercise #3	Lab Assignment due at beginning of next lab session	10
1, 2,4	<i>Week 4: 14 Sep</i>	Analysis of food products; organic molecules	Lab Exercise #4	Lab Assignment due at beginning of next lab session	10
1, 2,4	<i>Week 5: 21 Sep</i>	Cell structure	Lab Exercise #5	Lab Assignment due at beginning of next lab session	10
1, 2,4	<i>Week 6: 28 Sep</i>	Bacteria, Gram stain	Lab Exercise #6	Lab Assignment due at beginning of next lab session	10
1, 2,4	<i>Week 7: 5 Oct</i>	Diffusion and osmosis	Lab Exercise #7	Lab Assignment due at beginning of next lab session	10
1, 2,4	<i>Week 8: 12 Oct</i>	Cell Respiration	Lab Exercise #8	Lab Assignment due at beginning of next lab session	10
1, 2,4	<i>Week 9: 19 Oct</i>	Photosynthesis	Lab Exercise #9	Lab Assignment due at beginning of next lab session	10
1, 2,4	<i>Week 10: 26 Oct</i>	Mitosis and Meiosis	Lab Exercise #10	Lab Assignment due at beginning of next lab session	10
1, 2,4	<i>Week 11: 2 Nov</i>	Punnett squares and genetics	Lab Exercise #11	Lab Assignment due at beginning of next lab session	10
1, 2,4	<i>Week 12: 9-Nov</i>	DNA extraction	Lab Exercise #12	Lab Assignment due at beginning of next lab session	10
1, 2,4	<i>Week 13: 16-Nov</i>	Gene sequences	Lab Exercise #13	Lab Assignment due at beginning of next lab session	10
1, 2,4	<i>Week 14: 23 Nov</i>	No Lab - Thanksgiving Vacation		Lab Assignment due at beginning of next lab session	10
1, 2,4	<i>Week 15: 30-Nov</i>	The human Genome Project	Lab Exercise #14	Lab Assignment due at beginning of next lab session	10
1, 2,4	<i>Week 16: 7-Dec</i>	Assessment	Exam	In Class	160

## VIII. FKCC Grading Scale

A:	90 - 100%
B:	80 - 90%
C:	70 - 80%
D:	60 - 70%
F:	Below 60%

## VII. Materials

Materials will be provided during each lab session.

## IX. Grade Determination & Course Policies

<b>140 pts</b>	14 Lab Exercises @ 10 points each
<b>160 pts</b>	Final Exam
<b>300 pts</b>	Total

### Exams

- Exams are given at the start of class and must be completed during class within the time allotted.
- Makeup exams *may be* offered to students with emergencies, but only if they can provide acceptable documentation of the emergency (e.g., hospital admit slip, etc.) AND they contact the instructor *within 24 hours of the end of the emergency*. The instructor reserves the right to change the format of any makeup exams.

### Homework

- Questions following the lab exercises must be completed and brought to the next lab session

## FKCC Policies

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### Withdrawal

- Students may withdraw without academic penalty from any course by the established deadline published in the College's calendar. This will result in a grade of 'W' for the course and will not count against the student's GPA.
- Students will be permitted a maximum of two withdrawals per course. Upon the third attempt, the student WILL NOT be permitted to withdraw in accordance with State of Florida regulations and will receive an earned grade for that course.
- It is the responsibility of the student wishing to withdraw from the course to do so by the date published in the College Academic Calendar. **For Fall 2011, the last day to withdraw and receive a "W" grade is November 7<sup>th</sup>.** Students who abandon the course or do not withdraw themselves by the published deadline are subject to receiving a grade of F.
- An instructor may withdraw a student from courses for excessive absences and/or non-attendance up to the 70% point in the semester.

### Academic Honesty & Plagiarism

- You are responsible for understanding and avoiding plagiarism (presentation of another person's work—in any format—as if it were your own). Plagiarism is a serious form of fraud and will not be tolerated. It is the student's responsibility to review the College's policy on Academic Honesty.

- Students are expected to respect and uphold the standards of honesty in submitting written work to instructors. **The first instance of academic dishonesty (including plagiarism) will earn a grade of zero on the assignment; a second instance of academic dishonesty will earn a final course grade of F and will be reported to the College.**
- Collaboration and discussion is encouraged in all course aspects *other than* completion of student assessments (exams, homework, projects). In order to assess individual student performance in the course, I must be able to see your work alone on your assignments. **If I receive copied student work, all students whose work matches will receive a zero for the assignment.**

### **Special Needs**

If you have any special needs or requirements pertaining to this course, please discuss them with the instructor early in the term. If you have special needs as addressed by the Americans with Disabilities Act (ADA) and need assistance, please notify the Office for Students with Disabilities at 305-809-3504 via email at: joanne.dinkel@fkcc.edu or the course instructor immediately. Reasonable efforts will be made to accommodate your special needs.

### **Sexual Predators**

Federal and State law requires a person designated as a “sexual predator or offender” to register with the Florida Department of Law Enforcement (FDLE). The FDLE then is required to notify the local law enforcement agency where the registrant resides, attends or is employed by an institution of higher learning. Information regarding sexual predators or offenders attending or employed by an institution of higher learning may be obtained from the local law enforcement agency with jurisdiction for the particular campus, by calling the FDLE hotline (1-888-FL-PREDATOR) or (1-888-357-7332), or by visiting the FDLE website at [www.fdle.state.fl.us/sexual\\_predators](http://www.fdle.state.fl.us/sexual_predators). If there are questions or concerns regarding personal safety, please contact the Campus Security Officer on your campus.

### **Copyright Notice**

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