Division of Arts and Sciences
Department Biology
Course Syllabus

COURSE TITLE  Principles of Biology I Lab
COURSE NUMBER  BSC 1010L
PREREQUISITES  None
CRN  10720

CREDIT HOURS  1.0
CONTACT HOURS  30

CLASS MEETING TIMES  Thursdays from 15:30-17:15 from August 21-December 10, 2014 in room D-109
CLASS METHOD  Technology-Enhanced. This course is designed to meet face-to-face and online. Students should access the online portion of the course at: http://online.fkcc.edu.

INSTRUCTOR  Dr. Bill Irwin
william.irwin@fkcc.edu
Office: Key West Campus C-209
Office phone: 305-809-3129

OFFICE HOURS  As posted on door of room C-209

COURSE DESCRIPTION  An overview of the structural, ultrastructural, chemical, genetic, developmental and physiological realms of living organisms.

COURSE OBJECTIVES  By the end of this course, students should be able to:
• Describe the chemical basis of life (the behavior of molecules in water, pH, etc.)
• Describe the four classes of biomolecules and their importance to cells
• Describe organelles in animal and plant cells
• Outline the chemical reactions of photosynthesis and cell respiration
• Explain the stages of the cell cycle and understand how cancer occurs
• Explain how gene expression is regulated and proteins are synthesized
• Describe the human genome project and understand its personal relevance
• Describe the structure of chromosomes
• Explain the stages of meiosis
• Explain Mendelian and non-Mendelian inheritance
• Understand the basic development of organisms

REQUIRED MATERIALS: Biological Science Plus MasteringBiology with eText -- Access Card Package, 5/E
PUBLISHER  Benjamin Cummings
AUTHORS  Scott Freeman, Kim Quillin and Lizabeth Allison
ISBN  9780321743619

REQUIRED ONLINE ACCESS  When students receive their Mastering Biology (MB) registration code, they should register online and enter course code: CRN10719A to join this course. If students purchase a used textbook, they will need purchase an access code for Mastering Biology directly at: http://www.masteringbiology.com
**PROPOSED COURSE SCHEDULE**

**Please note:** The course schedule is subject to change to meet the needs of the course and its students. It is the responsibility of each student to stay current with the material via the D2L website.

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Topic</th>
<th>Reading Assignment</th>
<th>Online Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thur</td>
<td>21-Aug</td>
<td>Overview and Safety, Terminology</td>
<td>Bio-skill 2</td>
<td></td>
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<tr>
<td>Thur</td>
<td>28-Aug</td>
<td>Basic Chemistry</td>
<td>Bio-skill 8</td>
<td>Online Assignment Lab-A</td>
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<tr>
<td>Thur</td>
<td>4-Sep</td>
<td>Scientific Method</td>
<td>Bio-skills 1 &amp; 6</td>
<td></td>
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<tr>
<td>Thur</td>
<td>11-Sep</td>
<td>Osmosis and Diffusion</td>
<td>38.1, 42.3, 43.1</td>
<td>Online Assignment Lab-B</td>
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<tr>
<td>Thur</td>
<td>18-Sep</td>
<td>Microscopy, Cells and Tissues</td>
<td>42.2</td>
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<tr>
<td>Thur</td>
<td>25-Sep</td>
<td>Photosynthesis, Cell Respiration</td>
<td>56.1, 56.3</td>
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<tr>
<td>Thur</td>
<td>2-Oct</td>
<td>Fly Lab I</td>
<td>Bio-skill 13</td>
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<tr>
<td>Thur</td>
<td>9-Oct</td>
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<tr>
<td>Thur</td>
<td>16-Oct</td>
<td>Fly Lab II, Mendelian Genetics</td>
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<tr>
<td>Thur</td>
<td>30-Oct</td>
<td>Gel Electrophoresis, Fly Lab III</td>
<td>Bio-skill 9</td>
<td>Online Assignment Lab-C</td>
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<tr>
<td>Thur</td>
<td>6-Nov</td>
<td>ONLINE</td>
<td></td>
<td>Online Assignment Lab - E</td>
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<tr>
<td>Thur</td>
<td>13-Nov</td>
<td>PCR, GMOs</td>
<td></td>
<td>Online Assignment Lab-D</td>
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<tr>
<td>Thur</td>
<td>20-Nov</td>
<td>Gel Electrophoresis, Epigenetics</td>
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<tr>
<td>Thur</td>
<td>27-Nov</td>
<td>No Class - Thanksgiving</td>
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<tr>
<td>Thur</td>
<td>4-Dec</td>
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**STUDENT EVALUATION AND COURSE POLICIES**

<table>
<thead>
<tr>
<th>STUDENT GRADING SCALE</th>
<th>FKCC GRADING SCALE</th>
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<tbody>
<tr>
<td>50 % 2 Exams @ 100 points each = 200</td>
<td>90% or above A</td>
</tr>
<tr>
<td>25 % 5 Online Assignments @ 20 points each = 100</td>
<td>80%-89% B</td>
</tr>
<tr>
<td>25 % 10 Quizzes and Exercises @ 10 points each = 100</td>
<td>70%-79% C</td>
</tr>
<tr>
<td>100 % Total Grade (400 total points)</td>
<td>60%-69% D</td>
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<td></td>
<td>Below 60% F</td>
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**Participation**

- Students are expected to attend and participate in every lab session. Due to the nature of the lab exercises, labs usually cannot be "made up" after an absence. If you are absent without a valid excuse (see below), you receive a zero for any associated graded assignments of quizzes.
- If you are not able to attend class you are still responsible for understanding any and all material that is discussed in class and for obtaining any announcements that were made in class pertaining to the course. It is your responsibility to contact the instructor as soon as possible after your absence to find out what you missed.
- Please note that the instructor may withdraw a student from a course for excessive absences. For our purposes, "excessive absences" is defined as any combination of 2 or more unexcused absences, late arrivals or times leaving early.
Exam Policy:

- Each exam and exam review will take up one entire class meeting. The use of electronic devices is strictly prohibited during exams.
- Makeup exams are generally not offered but may be offered to students with emergencies if they can provide acceptable documentation of the emergency (e.g., hospital admit slip, etc.). The instructor reserves the right to change the format and content of any makeup exams.
- Any missed exam will receive a grade of 0 points in grade calculation.
- The final exam cannot be made up for any reason.

Communications Policy

- Students are expected to log into the course D2L site regularly (daily is recommended but at least every 48 hours is expected) to read announcements and check the forums.
- A detailed course schedule can be found on the course D2L site along with links to homework and quizzes.
- Students should utilize the online discussion forums for assistance with questions about course material. Forums may be created by the instructor for discussion of specific course information (e.g., the cardiovascular system) or for topics such as study group coordination. For general questions, please use the Cyber Café forum.
- Occasionally, time-sensitive announcements such as changes in due dates, exam information, etc. will be posted in the Announcements section. The student should log on to D2L 3-4 times each week (once per day is best but at least every other day is expected) to check for time-sensitive messages. The student is responsible for all information published here. In general, all participants should look through the Discussion Board and Announcements before posting a question as that same question may have already been asked and answered.
- Students should only use their official FKCC email address for class communication. Students are expected to check their FKCC email account regularly.
- In order to better serve our campus community, all D2L users should “Logout” when completing online course work. By logging off instead of just closing the internet browser window, server space is freed and system performance is optimized. Logging off will also more accurately record student time logged into the course.

Reading Assignments and Homework

- To succeed in this course, you should do all assigned textbook readings, quizzes, and online assignments. It is also recommended that you review class notes frequently. The most successful students are usually those who form study groups that meet regularly (weekly or more) throughout the course to review material and learn by questioning and teaching each other.
- Online homework and in-class quizzes are worth a substantial portion of your grade. Late homework assignments and online quizzes may not be accepted. Do not wait until “the last minute” to do your online assignments as you may have technical problems that may keep you from completing them on time.
- Online assignments can be found on the course website at: http://www.masteringbiology.com. It is the responsibility of each student to be aware of the due dates and times of all assignments as posted on the Mastering Biology website.

Copyright Notice

- The materials and content provided in this course is intended only for registered Florida Keys Community College students who have paid their tuition and fees to attend this course. Materials that are affected include, but are not limited to, text, still images, audio recordings, video recordings, simulations, animations, diagrams, charts, and graphs. Every effort has been made to insure these materials are not disseminated to anyone beyond those who have legally registered for this course. Download, revision, or distribution of course material with anyone other than registered classmates and the instructor is strictly prohibited.

Students are expected to understand and follow all FKCC Policies found in the current Student Handbook.