**TENTATIVE SCHEDULE**

**BSC 1005 (Life Science)**

**Spring 2014**

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**Week of      Lecture Topic                                             Required Reading**

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Jan 9 Introduction, Scientific Method Ch. 1

Jan 13 Water, Biochemistry and Cells Ch. 2

Jan 20 Cells & Metabolism (except 3.2, 3.3) Ch. 3

Jan 27 **Exam 1**, Cancer Ch. 4

Feb 3 Mitosis, Meiosis, Genetics                     Ch. 4, 5

Feb 10 Genetics, Forensic Science                              Ch. 5, 6

Feb 17 Forensic Science, **Exam 2** Ch. 6

Feb 24 Gene Expression Ch. 7

Mar 3 The Evidence for Evolution                           Ch. 8

Mar 10         Natural Selection                        Ch. 9

Mar 17 Diversity of Life, **Exam 3**                Ch. 10

Mar 24 **Spring Break**

Mar 31 Community and Ecosystem                          Handouts

Native Florida, Indian River Lagoon Handouts

Apr 7 **Exam 4**, Respiratory System Ch. 11

Apr 14 Cardiovascular System                 Ch. 12

Apr 21 Reproductive and Developmental Biology Ch. 13

Apr 24   **Exam 5**

Professor:     Sherry Bowen

Office:          Main Campus, N217

Phone:         772-462-7502

E-mail:         [sbowen@irsc.edu](mailto:sbowen@irsc.edu)

Website:       http://sbowen-irsc.weebly.com

Text:            Symbiosis (Biology: Science for Life with Physiology, 4th Ed, Belk &Maier)

Benjamin Cummings, 2013. ISBN-13:978-0-321-76783-7

**Grading Policies**

**Projects** (100 points) – There will be 5 unit projects given throughout the semester. These may be assessed on Angel. The average of all the projects will count as an exam in the final grade.

**Exams and Quizzes** – There will be five unit exams (one proctored and four on-line unit exams; 100 point each) and on-line chapter quizzes (average to a 100 point test grade) given during the semester. The lowest exam grade will be dropped.

The final course grade will be calculated based on the total of 600 points.

A: 600-540 points     B: 539-480 points   C: 479-420 points

D: 419-360 points    F: below 360 points

**Make-up policy:**

No make-up exams are given.

**Withdrawal:**

Please contact the instructor if you feel that you need to withdraw.  It might not be necessary.  You will **NOT** be automatically withdrawn if you stop participating on line.  It is your responsibility to withdraw. Students wanting to withdraw must do so by, **Wednesday, Mar 19.**

**Cheating:**

Cheating of ANY kind WILL NOT be tolerated by this Department.  Anyone caught cheating will automatically receive an F for the semester (No withdraws allowed for cheaters).  Anyone who witnesses this inexcusable behavior, and does not report it, is also considered to be guilty of improper conduct.

**Course Objectives:**

* Using the scientific method, critically analyze and evaluate scientific data and analytical skills to solve problems relevant to biology and the life sciences.
* To understand the structure of atoms and how they combine to form molecules, macromolecules and their importance.
* To understand the structure and function of cells, genes, and inheritance.
* To understand the basics of anatomy and physiology of the human body.
* To understand natural selection and evolution biology.
* To recognize the local ecosystem, native, and invasive plants.
* Communicate major biological concepts and relate how these are connected within various and the biological and physical sciences.

**Learning Outcomes :**

Upon completion of BSC1005, Life Science, students will have the ability to

* Communicate major biological concepts and relate how these are connected within various areas of the biological and physical sciences.
* Apply problem solving, analytical, and communication skills based on the scientific method that will provide the foundation for lifelong learning and career development.
* Make use of technology to organize, acquire, and convey information relevant to the biological sciences.