

**General Biology 1010 – CRN 23232**  
Spring 2015  
Monday/Wednesday 600-715 pm  
Science 109  
Christian Edwards  
Email: cnedwards@dixie.edu  
Office hours: by appointment (please email)

**BIOL 1010**

This course fulfills General Education Life Sciences requirement. Not for science majors, this course focuses on general principles of Biology, including cell theory, genetics, evolution, and interrelationships of living things, using a variety of teaching methods including lecture/discussion, overheads, videos, quizzes and exams. Lab course recommended but not required. FA, SP, SU

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Science & Technology Division

Life Sciences Department

Recommended Text: *Essential Biology*, Campbell, Neil A., E.J. Simon, J.B. Reece, J.L. Dickey. 2010. 4<sup>th</sup> Edition. Benjamin Cummings. (3<sup>rd</sup> Edition OK)

Objectives: For each student to gain an understanding of basic biological principles that will allow him/her to feel confident in their knowledge of how life works. Also, for each student to enjoy learning about these principles.

Lecture Outline (dates listed below are Mondays, however, they represent the Mon/Wed week and are subject to change)

Week 1 – 12 January

- Introduction; Biology defined; Properties, domains, and levels of Life; Science overview. (Chapter 1)

Week 2 – 19 January

- Matter; Chemical bonds and reactions; Water; Organic molecules. (Chapter 2-3)

Week 3 – 26 January

- The cell: theory, types, organelles, and membrane; Cellular work: energy, enzymes, and ATP. (Chapters 4-5)

Week 4 – 2 February

- Cellular respiration; Photosynthesis. (Chapters 6-7)

Week 5 – 9 February

- Chromosomes; Cell cycle; Mitosis and Meiosis. (Chapter 8)

Week 6 – 16 February

- Patterns of inheritance; Structure and function of DNA. (Chapters 9-10)

Week 7 – 23 February

- Evolution. (Chapter 13)

Week 8 – 2 March

- Biodiversity and speciation. (Chapter 14)

- Week 9 – 9 March
  - SPRING BREAK – no class
- Week 10 – 16 March
  - Origin of life; Microbes. (Chapter 15)
- Week 11 – 23 March
  - Plants and fungi. (Chapter 16)
- Week 12 – 30 March
  - Animals. (Chapter 17)
- Week 13 – 6 April
  - Introduction to ecology; Biomes. (Chapter 18)
- Week 14 – 13 April
  - Population ecology. (Chapter 19)
- Week 15 – 20 April
  - Community ecology; Ecosystems. (Chapter 20)
- Week 16 – 27 April
  - Behavioral Ecology; Intro to Ornithology
- Week 17 – 4 May (FINALS WEEK)

Grading

Weekly Quizzes (10@10 pts) . . . . .	100
Lecture Exams (5@100 pts) . . . . .	500
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Total	600

Letter Grade Percentage Points

A = 100 – 93.0	B- = 82.9 – 80.0	D+ = 69.9 – 67.0
A- = 92.9 – 90.0	C+ = 79.9 – 77.0	D = 66.9 – 63.0
B+ = 89.9 – 87.0	C = 76.9 – 73.0	D- = 62.9 – 60.0
B = 86.9 – 83.0	C- = 72.9 – 70.0	F = Below 60

Exams (dates listed are Friday)

- Exam 1 – 30 January – Chapters 1-5
- Exam 2 – 20 February – Chapters 6-10
- Exam 3 – 20 March – Chapters 13-15
- Exam 4 – 10 April – Chapters 16-18
- Final Exam – Chapters 19-20, plus additional topics

During exam weeks, exams will be available in the testing center Friday through Monday at 530 pm.

Quizzes will be given in class every Monday, **except** for the week following exams.

All missed class work, assignments, and exams must be discussed with instructor **before** date absent or penalties could apply to final grade.

*Important note:* I work full-time for Utah DWR and on occasion I might arrive late to class. If this occurs I hope you will excuse my tardiness and I expect you to remain in the classroom until I arrive.

**Dmail:** You are required to frequently check your Dmail account. Important class and university information will be sent to your Dmail account, including DSU bills, financial aid/scholarship notices, notices of canceled classes, reminders of important dates and events, and other information critical to your success in this class and at DSU. If you don't know how to access your Dmail account, go to [www.dixie.edu](http://www.dixie.edu) and select "Dmail" from the left column. To locate your Dmail username and password, go to [www.dixie.edu](http://www.dixie.edu) and click on "Login to student services" in the upper right-hand corner. You will be held responsible for information sent to your Dmail account, so please check it often.

**University approved absences:** Dixie State University Policy explains in detail what needs to happen if you anticipate being absent from class because of a university-sponsored activity (athletic events, club activities, field trips for other classes, etc). Please read this information and follow the instructions carefully! The policy can be found at: <http://www.dixie.edu/humanres/policy/sec5/523.html>

**Disability Accommodations:** If you suspect or are aware that you have a disability that may affect your success in this course, you are strongly encouraged to contact the Disability Resource Center (DRC) located in the northeast corner of the North Plaza building. The disability will be evaluated and eligible students will receive assistance in obtaining reasonable accommodations. Phone: (435) 652-7516.

**Classroom expectations:** It is the responsibility of an instructor to manage the classroom environment to ensure a good learning climate for all students. This means that you must refrain from actions such as physical violence, verbal abuse, or harassment; intoxication or illegal drug use; use of profanity; disrespecting others when expressing their own viewpoints; talking while the instructor or another student is talking; and constant questions or interruptions that interfere with classroom presentation. An instructor may ask you to stop the inappropriate behavior, meet with you after class to discuss the problem, or involve the Dean of Students, the department chair, or campus police if necessary. Students can be removed temporarily or permanently from a course for disrupting the learning environment.

**Academic integrity:** In order to ensure that the highest standards of academic conduct are promoted and supported at the University, students must adhere to generally accepted standards of academic honesty, including but not limited to, refraining from cheating, plagiarizing, falsification, misrepresentation, and/or inappropriately colluding or collaborating. The University shall consistently hold students accountable for instances of academic dishonesty and apply appropriate consequences. For more information, see the Student Academic Misconduct section of DSU policy at <http://dixie.edu/humanres/policy/sec5/533.html#appeals>

**Campus resources:** Several campus resources are available to help you succeed. Check out the links for each one to get more information.

If you need help understanding the content of your courses, go to the **Tutoring Center** located on the 4th floor of the Holland Centennial Commons in Room 431. You can visit them online at <http://www.dixie.edu/tutoring/>

If you need help writing papers, essays, etc go to the **Writing Center** on the fourth floor of the Holland Centennial Commons in room 421. You can also visit them online at <http://dixiewritingcenter.com/>  
If you need to use a **computer** to do schoolwork on campus, go to the Smith Computer Center or the Holland Centennial Commons on the second, mezzanine, or third floors.

If you are assigned to take a test in the **Testing Center**, go to the North Plaza. You can get information on their website at <http://www.dixie.edu/testing/>

The **Library** has all kinds of information and resources. Visit the Dixie State University Library on the 2<sup>nd</sup>, and 3<sup>rd</sup> floors of the Holland Centennial Commons, or go to the library website at <http://library.dixie.edu/>

### **Important dates**

Mon, Jan 12	Classes begin
Thurs, Jan 15	Last day for waitlist
Fri, Jan 16	Last day to add classes online
Mon, Jan 19	Martin Luther King Jr. Day (no classes)
Thurs, Jan 22	Drop/Audit fee begins (\$10 per class)
Thurs, Jan 22	Residency Application deadline
Tue, Jan 27	\$50 Late registration/payment fee
Mon, Feb 2	Spring 2015 Associate's Degree Graduation Application Deadline
Mon, Feb 2	Last day for refund
Mon, Feb 2	Pell Grant Census
Mon, Feb 2	Last day to drop without a "W" grade
Wed, Feb 4	Classes dropped for nonpayment
Fri, Feb 6	Last day to add/audit classes
Mon, Feb 16	President's Day (no classes)
<i>Tues, Feb 17</i>	<i>Spring Block classes start</i>
Mon, Mar 2	Summer 2015 Bachelor's Degree Graduation Application Deadline
Mon, Mar 2	Midterm grades due
Fri, Mar 6	Last day to drop individual classes
Mon-Fri Mar 9-13	Spring break (no classes)
Mon, Mar 23	Fall 2015 class schedule available online
Mon-Thurs Mar 23-26	Summer Registration Opens (seniors, juniors, sophomores, all students)
Wed, Apr 1	Fall 2015 Bachelor's Degree Graduation Application Deadline
Fri, Apr 10	Last day for complete withdrawal
Mon-Thurs, Apr 14-17	Fall Registration Opens (seniors, juniors, sophomores, all students)
Wed, Apr 29	Last day of classes
Thurs, Apr 30	Reading Day (no classes)
Fri, May 1	Summer 2015 Associate's Degree Graduation Application Deadline
Fri-Thurs May 1-7	Final Exams
Fri, May 8	Commencement