**Biology 1020 Biodiversity Biology Lab**
**Spring Semester 2014**
**Biology Department, College of Arts and Sciences**
**Valdosta State University**

**Instructor**: Dr. Teresa H. Doscher
**Office:** Science Building 1098
**Office Hours:** T 2:00 – 3:15 pm or by appointment
**Phone:** Office 333-5769, Biology Dept. Main Office 333-5759
**E-mail:** thdosche@valdosta.edu
**Room:** Science Building 1046
**Midterm**: March 6, 2014. This is the last day to drop this course and receive a withdrawal grade (W).
**Credit Hours**: 1

**Course Description:**
**Bio 1020L Biodiversity Lab**
**Co-requisite: Bio 1010.** This course cannot be taken for credit toward the major in biology. An introduction to the diversity of life on earth with a special emphasis on ecological and evolutionary processes and relationships.

**Course Objectives**: This course is designed to accompany Bio 1010 by presenting exercises that emphasize an introduction to the diversity of life on Earth with a special emphasis on ecological and evolutionary processes and relationships. Students will participate in the process of scientific inquiry by asking scientific questions, developing hypotheses, predicting outcomes of experiments, collecting and interpreting data and drawing conclusions from the results.

**Learning Goal**: Students will demonstrate understanding of the physical universe and the nature of science, and they will use scientific methods and/or mathematical reasoning and concepts to solve problems.

**Materials**: Biol 1020L Lab Manual, Revised 10/e – "Biodiversity: The Evolution and Diversity of Life" authored by the VSU Department of Biology.

**Attendance**: Attendance in lab is mandatory. **If you do not attend your regular lab section, you must arrange to make-up the lab before the end of the week. This must be in the week the lab is scheduled. As per University policy; a student who misses more than 20% of the scheduled classes of a course will be subject to receiving a FAILING grade in the course. (3 missed labs) If you are 10 minutes late to lab, you will be turned away from the lab. It will be your responsibility to contact me after class to arrange your attendance in another lab.**

**Lab Make-up Policy:** The privilege of making up a lab is not guaranteed. A lab exercise **MAY ONLY BE MADE UP DURING THE WEEK IT IS SCHEDULED.** Students with lab scheduled late in the week must be especially cautious since the number of subsequent labs for the week may be few. Prior to attending another lab**, the student is responsible for obtaining written permission from BOTH his/her instructor and the other lab instructor. It is possible that the other instructor's lab is full and you will not be able to attend that lab.** If this procedure is not followed, the student will be turned away from the other lab. The student should remind the other lab instructor to give a note to his/her instructor verifying the student's attendance. The instructor will determine validity of excuses. **ONLY ONE (1) MAKE UP WILL BE ALLOWED PER SEMESTER.**

**Grading:** Your final grade will be determined by laboratory quizzes, laboratory reports, homework assignments and daily participation grades. You will be told at the end of each lab what you will be responsible for the next lab period; whether it be a quiz or homework to turn in. **Quizzes are given at the beginning of each lab. If you are late to class or miss the class, you will not be able to make up the quiz.**

**MAKE UP QUIZZES ARE NOT GIVEN SO DON'T ASK.**

The lowest quiz or assignment grade will be dropped when calculating the student's final grade. If you miss the class completely, you are responsible for the material covered that class period and you must be prepared for the quiz the following class period.
**I will not accept assignments or a lab report from a class that you did not attend. I will not accept any late assignments either. You will receive a daily participation grade. Therefore, if you are not present you will receive a zero grade for the day.**

**Final Grades**: Final grades are based on the following cumulative point totals:
90 – 100% = A 80 – 89.99% = B 70– 79.99% = C 60 – 69.99% = D Below 60% = F

**Cheating and Plagiarism:** Academic integrity is the responsibility of all VSU faculty and students. Faculty members should promote academic integrity by including clear instruction on the components of academic integrity and clearly defining the penalties for cheating and plagiarism in their course syllabi. Students are responsible for knowing and abiding by the Academic Integrity Policy as set forth in the Student Code of Conduct and the faculty members' syllabi. All students are expected to do their own work and to uphold a high standard of academic ethics.
A student caught cheating on a quiz, lab report, or assignment will receive a grade of zero and may receive a failing grade (F) in the course**.**
**Each student will be required to complete his/her own lab report or assignment for certain lab experiments.** Many of the experiments will be conducted as groups; however, group lab reports or lab reports identical to others in the class are not acceptable. **If two or more students turn in identical or similar lab reports or assignments, those students will receive a grade of zero on the assignment.**

**Disruptive Behavior:** The academic community is under a strong obligation to protect the campus community from disorderly, disruptive, or obstructive actions which interfere with academic pursuits of teaching, learning and other campus activities. Therefore, any disruptive behavior in the laboratory that interferes with the teaching of the laboratory exercises or disturbs other students or faculty will not be tolerated. **Any student that disrupts the class will be removed from the class and possibly dropped from the course.** This student will also forfeit any points toward his or her grade from that day and will not be able to make up the lab. Refer to the Undergraduate Catalog for more information.

**TEXTING OR USING YOUR PHONE WILL NOT BE TOLERATED DURING CLASS! YOU WILL BE ASKED TO LEAVE THE CLASS IF THIS POLICY IS BROKEN!**

**Family Educational Rights and Privacy Act of 1974:** It is illegal to release personal information about an individual to others. **Grades, averages, and other information will not be released to anyone but that individual; therefore, no grades will be posted or given out over the phone or email.**

**Students with Disabilities:** Students requesting classroom accommodations or modifications due to a documented disability must contact the Access Office for Students with Disabilities located in the Farber Hall. The phone numbers are 245-2498 (V/VP) and 219-1348 (TTY).

**Strategies Used to Support Learning** : The Student Success Center: The Student Success Center (SSC) provides free peer tutoring in core courses, the top four of which are math, writing, Spanish, and biology/chemistry. It also offers Regents' Test Preparation, time management, and study skills workshops as well as provides free professional academic advising and on-campus job information in one location: Langdale Residence Hall above the Tech shop. Help is available to all VSU students. Call 333-7570 to make an appointment, or visit the website: www.valdosta.edu/ssc.

# Biology 1020 Laboratory Schedule– Spring 2014

*This is a tentative schedule subject to change at the instructors discretion.

| Week | Date | Lab Exercise | Pages |
|---|---|---|---|
| 1 | Jan. 13 - 17 | Syllabi / Laboratory Safety Guidelines<br>*Web: Lab Safety, Diversity Atlas* | |
| 2 | Jan. 20 - 24 | **Martin Luther King Holiday - No Labs All Week** | |
| 3 | Jan. 27 - 31 | Exercise 1: Classification | 1 - 10 |
| 4 | Feb. 3 - 7 | Exercise 2: Proper Use of a Microscope<br>Exercise 3: Prokaryotes (Set up plates)<br>*Web: Parts of the Microscope, How to Use the Microscope and Prokaryotes* | 11 - 20<br>21 - 24 |
| 5 | Feb. 10 - 14 | Exercise 3: Prokaryotes<br>*Web: Gram Staining* | 21 - 31 |
| 6 | Feb. 17 - 21 | Exercise 4: A Modern Survey of Protistan Lineages<br>*Web: Protists* | 33 - 57 |
| 7 | Feb. 24 - 28 | Exercise 5: Fungi<br>*Web: Fungi* | 59 - 68 |
| 8 | March 3 - 7 | Exercise 6: Kingdom Plantae: Bryophytes, Pteridophytes, Gymnosperms<br>*Web: Lower Plants* | 69 - 82 |
| 9 | March 10 - 14 | Exercise 7: Kingdom Plantae: Angiosperm Development<br>*Web: Angiosperms* | 83 - 95 |
| 10 | March 17 - 21 | **Spring Break - No Labs All Week** | |
| 11 | March 24 - 28 | Exercise 8: Invertebrates<br>*Web: Invertebrates* | 97 - 125 |
| 12 | March 31 - April 4 | Exercise 9: Phylum Arthropoda | 127 - 138 |
| 13 | April 7 - 11 | Exercise 10: Georgia Ecology<br>MEET BEHIND THE REC CENTER/ WEAR LONG PANTS AND STURDY SHOES | 139 - 145 |
| 14 | April 14 - 18 | Exercise 14: Morphological Variation of Mammals<br>*Web: Morphological Variation* | 163 - 167 |
| 15 | April 21 - 25 | Exercise 16: Foraging | 209 - 217 |
| 16 | April 28 - May 2 | Exercise 17: Owl Pellet Analysis OR Biomes<br>*Web: Owl Pellets* | 195 - 207 |

# Biology 1020 Biodiversity Lab – Spring 2014 - Room BC 1047

| | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|---|
| 8:00 AM<br>8:30 AM<br>9:00 AM<br>9:30 AM | | | | SGCEP<br>Bernhardt<br>8 - 9:50 | |
| 10:00 AM<br>10:30 AM<br>11:00 AM<br>11:30 AM | | Bio 1020 G<br>Siddiqui<br>10 - 11:50 | Bio 1020 L<br>Agyabeng-Dadzie<br>10 - 11:50 | Bio 1020 Lab Q<br>Earley<br>10 - 11:50 | |
| 12:00 PM<br>12:30 PM<br>1:00 PM<br>1:30 PM | Bio 1020 Lab A<br>Doscher<br>12 - 1:50 | Bio 1020 H<br>Siddiqui<br>12 - 1:50 | Bio 1020 M<br>Thompson<br>12 - 1:50 | Bio 1020 Lab R<br>Thompson<br>12 - 1:50 | Lab Meeting<br>Lab Meeting<br>Lab Meeting<br>Lab Meeting |
| 2:00 PM<br>2:30 PM<br>3:00 PM<br>3:30 PM | Bio 1020 Lab C<br>Siddiqui<br>2 - 3:50 | Bio 1020 Lab I<br>Earley<br>2 - 3:50 | Bio 1020 Lab N<br>Agyabeng-Dadzie<br>2 - 3:50 | Bio 1020 Lab S<br>Earley<br>2 - 3:50 | |
| 4:00 PM<br>4:30 PM<br>5:00 PM<br>5:30 PM | | Bio 1020 Lab J<br>Agyabeng-Dadzie<br>4 - 5:50 | | | |

| Faculty | Office Phone # | Office # | Email |
|---|---|---|---|
| Mr. Fiifi Agyabeng-Dadzie | 333-5759 | BC 1218 | fagyabengdadzie@valdosta.edu |
| Ms. Lynda Bernhardt | 219-1248 | UC 2045 | lyndabernhardt@sgsc.edu |
| Dr. Teresa Doscher | 333-5769 | BC 1098 | thdosche@valdosta.edu |
| Mr. Sean Earley | 333-5219 | BC 2025 | smearley@valdosta.edu |
| Ms. Samreen Siddiqui | 333-5219 | BC 2025 | ssiddiqui@valdosta.edu |
| Ms. Simone Thompson | 245-6414 | BC 1209 | sjthompson@valdosta.edu |
| Biology Main Office | 333-5759 | BC 2035 | |

If you can't reach a faculty member, contact the main biology office and leave a message.

**Dr. Doscher - Weekly Schedule**

| | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|---|
| 8:00 AM<br>8:30 AM<br>9:00 AM<br>9:30 AM | | | | | |
| 10:00 AM<br>10:30 AM<br>11:00 AM<br>11:30 AM | Bio 1040 Lab A<br>Doscher<br>10 - 11:50<br>BC 1046 | Bio 1040 Lab G<br>Doscher<br>10 - 11:50<br>BC 1046 | | | Lab Meeting<br>Lab Meeting |
| 12:00 PM<br>12:30 PM<br>1:00 PM<br>1:30 PM | Bio 1020 Lab A<br>Doscher<br>12 - 1:50<br>BC 1047 | Dept. Meeting<br>Dept. Meeting<br>Dept. Meeting | | Bio 1040 Lab R<br>Doscher<br>12 - 1:50<br>BC 1046 | Lab Meeting<br>Lab Meeting<br>Lab Meeting<br>Lab Meeting |
| 2:00 PM<br>2:30 PM<br>3:00 PM<br>3:30 PM<br>4:00 PM<br>4:30 PM | | Office Hours<br>Office Hours | | Bio 1040 Lab S<br>Doscher<br>2 - 3:50<br>BC 1046 | |