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| |  | | --- | | NORTH CENTRAL TEXAS COLLEGE  COURSE SYLLABUS | |

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| *Course Title:* | BIOL 1411 General Botany | | | | | | |
| *Course Prefix & Number:* | | BIOL 1411 | | *Section Number:* | 390 | *Semester/Year:* | SP 2018 |
| *Semester Credit Hours:* | | 4 | *Lecture Hours:* | | 48 | *Lab Hours:* | 48 |
| *Course Description (NCTC Catalog):*  *Fundamental biological concepts relevant to plant physiology, life cycle, growth and development, structure and function, and cellular and molecular metabolism. The role of plants in the environment, evolution, and phylogeny of major plant groups, algae, and fungi. (This course in intended for science majors.)*  *This laboratory-based course accompanies BIOL 1411. Laboratory activities will reinforce fundamental biological concepts relevant to plant physiology, life cycle, growth and development, structure and function, and cellular and molecular metabolism. The role of plants in the environment, evolution, and phylogeny of major plant groups, algae, and fungi. (This course in intended for science majors.)* | | | | | | | |
| *Course Prerequisite(s):*  *None* | | | | | | | |
| *Required or Recommended Course Materials:*  Bidlack, J. E., & Jansky, S. H. (2017). Stern’s Introductory Plant Biology (14th ed.). New York: McGraw Hill.  Botany Lab Manual, NCTC Printed Lab Manual available in NCTC Bookstore | | | | | | | |

**INSTRUCTOR INFORMATION**

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| *Name of Instructor:* | Lisa Bellows, Ph.D. |
| *Campus/Office Location:* | Gainesville, Room 403 |
| *Telephone Number:* | 9406-668-4252 |
| *E-mail Address:* | lbellows@nctc.edu |

**OFFICE HOURS – as posted or by appointment**

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| --- | --- | --- | --- | --- |
| *Monday* | *Tuesday* | *Wednesday* | *Thursday* | *Friday* |
| 9-11 | 9-11 |  | 9-11 | 9-11 |

***STUDENT LEARNING OUTCOMES*** *(From Academic Course Guide Manual/Workforce Education Course Manual/NCTC Catalog*

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|  | *At the successful completion of this course the student will be able to:* |
| *LECTURE LEARNING OUTCOMES* | |
| *1.* | *Compare and contrast the structures, reproduction, and characteristics of plants, algae, and fungi.* |
| *2.* | *Describe the characteristics of life and the basic properties of substances needed for life.* |
| *3.* | *Identify the principles of inheritance and solve classical genetic problems.* |
| *4.* | *Describe phylogenetic relationships and classification schemes.* |
| *5.* | *Identify the major phyla of life with an emphasis on plants, including the basis for classification, structural and physiological adaptations, evolutionary history, and ecological significance.* |
| *6.* | *Identify the chemical structures, synthesis, and regulation of nucleic acids and proteins.* |
| *7.* | *Identify the substrates, products, and important chemical pathways in photosynthesis and respiration.* |
| *8* | *Describe the unity and diversity of plants and the evidence for evolution through natural selection.* |
| *9.* | *Compare different sexual and asexual life cycles noting their adaptive advantages.* |
| *10.* | *Describe the reasoning processes applied to scientific investigations and thinking.* |
| *LABORATORY LEARNING OUTCOMES* | |
| *1.* | *Apply scientific reasoning to investigate questions and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.* |
| *2.* | *Use critical thinking and scientific problem-solving to make informed decisions in the laboratory.* |
| *3.* | *Communicate effectively the results of scientific investigations.* |
| *4.* | *Compare and contrast the structures, reproduction, and characteristics of plants, algae, and fungi.* |
| *5.* | *Describe the characteristics of life and the basic properties of substances needed for life.* |
| *6.* | *Identify the principles of inheritance and solve classical genetic problems.* |
| *7.* | *Describe phylogenetic relationships and classification schemes.* |
| *8.* | *Identify the major phyla of life with an emphasis on plants, including the basis for classification, structural and physiological adaptations, evolutionary history, and ecological significance.* |
| *9.* | *Identify the chemical structures, synthesis, and regulation of nucleic acids and proteins.* |
| *10.* | *Identify the substrates, products, and important chemical pathways in photosynthesis and respiration.* |
| *11.* | *Describe the unity and diversity of plants and the evidence for evolution through natural selection.* |
| *12.* | *Compare different sexual and asexual life cycles noting their adaptive advantages.* |
| *13.* | *Describe the reasoning processes applied to scientific investigations and thinking.* |

**GRADING CRITERIA**

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| *# of Graded Course Elements* | *Graded Course Elements* | *Percentage or Point Values* |
| 4 | Lecture Exams @ 100 pts each | 400 |
| 2 | Lab Quizzes – 100 pts each | 200 |
| 2 | Scavenger Hunts @ 50 pts each | 100 |
| 1 | Plant Portfolio | 200 |
| 1 | Adventure Points | 100 |
| **TOTAL** | | **1000 points** |

**Course Grading** Grading is based on a point scale.

1000 – 900 = A (Superior College Level Work)

899 – 800 = B (Above Average College Level Work)

799 – 700 = C (Average College Level Work)

699 – 600 = D (Questionably Unacceptable College Level)

**Assignment Due Dates** An Assignment is considered late if it is not turned in when it is due. No late work will be accepted… no excuses. Students are expected to present themselves in a professional manner and show responsibility. Most assignments will be due Sunday, 11:30PM. Pay close attention to the assignment.

**Plagiarism** Plagiarism will result in a grade of F for the assignment and possibly the course. Multiple infractions could result in dismissal from the course/or NCTC. Plagiarism consists of copying directly from a source without properly citing the source. It is also using someone else’s work and claiming it as your own. Please cite all references.

**Professionalism** Students are expected to demonstrate a professional attitude at all times. This includes respecting the thoughts of other classmates and the instructor. Also included is the following: participating discussions, accepting constructive criticism, turning in high quality work, and understanding that this is a growth experience. All students enrolled in this class shall demonstrate common decency and acceptable behavior conducive to a positive learning environment.

**ATTENDANCE POLICY**

Regular and punctual attendance is expected of all students in all classes for which they have registered. All absences are considered to be unauthorized unless the student is absent due to illness or emergencies as determined by the instructor. It is the student responsibility to provide documentation as to the emergency for approval and judgement by the faculty member. Approved college sponsored activities are the only absences for which a student should not be held liable and only when provided by a college official ahead of the absence. Valid reasons for absence, however, do not relieve the student of the responsibility for making up required work. Students will not be allowed to make up an examination missed due to absence unless they have reasons acceptable to the instructor. A student who is compelled to be absent when a test is given should petition the instructor, in advance if possible, for permission to postpone the exam. Student will be dropped from a class by the Registrar upon recommendation of the instructor who feels the student has been justifiably absent or tardy a sufficient number of times to preclude meeting the course’s objectives. Persistent, unjustified absences from classes or laboratories will be considered sufficient cause for College officials to drop a student from the rolls of the College. From Board Policy FC (LOCAL)

# Students are required to “log-­‐in” at least twice per week . Pay close attention to announcements and due dates.

***Late work will not be accepted*.** All assignments must be completed by 11:30 PM of the day indicated per assignment unless noted otherwise. Unit/Chapter assignments will take several hours to complete; please do not wait until the due date to begin readings and assignments. See the calendar for due dates. If an assignment is not submitted on or before the due date, **no credit will be given**.

If you stop participating or do not **“log-­‐in” 4 times in a two week period**, you will no longer be able to access the course in CANVAS and need to officially drop the course either online or in the admissions office in order to receive a “W”. You WILL NOT be automatically dropped from the course by the instructor or department but the instructor has the authority to drop you for non-participation if so desired by the instructor.

Last day to withdraw from a course with a “W” is **April 5, 2018.**

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**DISABILITY SERVICES** (Office for Students with Disabilities)

The Office for Students with Disabilities (OSD) provides support services for students with disabilities, students enrolled in technical areas of study, and students who are classified as special populations (i.e. single parents).

Support services for students with disabilities might include appropriate and reasonable accommodations, or they may be in the form of personal counseling, academic counseling, career counseling, etc. Furthermore, OSD Counselors work with students to encourage self-advocacy and promote empowerment. The Counselors also provides resource information, disability-related information, and adaptive technology for students who qualify.

If you feel you have needs for services that the institution provides, please reach out to either Wayne Smith (940) 498-6207 or Yvonne Sandman (940) 668-3300. Alternative students may stop by Room 170 in Corinth or Room 111 in Gainesville.

**CORE CURRICULUM FOUNDATIONAL COMPONENT AREA** (For classes in the Core)\_\_\_\_\_\_\_\_

 Communication

 Mathematics

X Life and Physical Science

 Language, Philosophy & Culture

 Creative Arts

 American History

 Government/Political Science

 Social and Behavioral Sciences

 Component Area Option

**REQUIRED CORE OBJECTIVES** (For classes in the Core)

X Critical Thinking

X Communication

X Empirical and Quantitative

X Teamwork

Personal Responsibility

Social Responsibility

**COURSE TYPE**

X Academic General Education Course (from ACGM but not in NCTC Core)

**** Academic NCTC Core Curriculum Course

**** WECM Course

**STUDENT HANDBOOK**

Students are expected to follow all rules and regulations found in the student handbook published online.

**ACADEMIC DISHONESTY**

Scholastic dishonesty shall include, but is not limited to cheating, plagiarism, academic falsification, intellectual property dishonesty, academic dishonesty facilitation and collusion. Faculty members may document and bring charges against a student who is engaged in or is suspected to be engaged in academic dishonesty. See Student Handbook, “Student Rights & Responsibilities: Student Conduct ([FLB(LOCAL)]”.

Consequences for academic dishonesty may include:

Reduction of grade including zero or at the instructor’s discretion you may be dropped from the course. Reports of dishonesty will be submitted to the office of student affairs and could result in dismissal from NCTC.

# COURSE CALENDAR

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| **Week 1**  1/16 – 1/20 | Welcome |
| **Week 2**  1/21 – 1/27 | Chapters 1,2 |
| **Week 3**  1/28 – 2/3 | Chapter 3 |
| **Week 4**  2/4 – 2/10 | Chapter 4  Scavenger Hunt 1 due on 2/5 |
| **Week 5**  2/11 – 2/16 | Chapters 5,6,7  Exam 1 on 2/12 |
| **Week 6**  2/18 – 2/24 | Chapter 8 |
| **Week 7**  2/25 – 3/3 | Chapter 9 |
| **Week 8**  3/4 – 3/10 | Chapter 10  Exam 2 on 3/5  Lab Exam 1 on 3/5 |
| **3/11 – 3/17** | SPRING BREAK |
| **Week 9**  3/18 – 3/24 | Chapter 11, 12  Scavenger Hunt 2 due on 3/19 |
| **Week 10**  3/25 –3/31 | Chapter 13 |
| **Week 11**  4/1 – 4/7 | Chapter 14, 15  4/5– Last day to drop with a “W” |
| **Week 12**  4/8 – 4/14 | Chapter 16, 17, 18, 19  Exam 3 on 4/9 |
| **Week 13**  4/15 – 4/21 | Chapter 20, 21 |
| **Week 14**  4/22 – 4/28 | Chapter 22, 23  Plant Portfolios due on 4/23 |
| **Week 15**  4/29 – 5/5 | Chapter 24, 25, 26  Lam Exam 2 on 4/30  Adventure Points due on 4/30 |
| **Week 16**  5/7 | Final Exam will be Exam 4 |

**QUESTIONS, CONCERNS, or COMPLAINTS**

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| Dean of Instruction | Sara Flusche |
| Office Location: | Education Bldg. Gainesville 1300 Bldg. |
| Telephone Number: | 940-668-3321 |
| E-mail Address: | sflusche@nctc.edu |