I. Locator Information:
Instructor: Dr. Lieceng Zhu
Course # and Name: ZOOL 410-01, Principles of Genetics
Semester Credit Hours: 4 hrs

Office Location: LS 215
Office Hours:
W  8:00am-12:00 pm
TR 11:00am-12:00 pm
   4:00-5:00 pm

Day and Time Class Meets: MW 3:00 -4:15 pm (Lec)
          R  12:00 - 1:50 pm (lab)

Office Phone: 910-672-1655

II. Course Description:
A study of the fundamental concepts and principles of Mendelian genetics, cytogenetics, molecular genetics, and application of genetic technologies, with two hour laboratory experiments and exercises that are designed to reinforce and deepen students' understanding to the basic concepts and principles of genetics and to provide opportunity to obtain hands-on experimental and problem solving skills. Prerequisite: ZOOL 200 And BOTN 210

FSU Policy on Electronic Mail: Fayetteville State University provides to each student, free of charge, an electronic mail account (username@uncfsu.edu) that is easily accessible via the Internet. The university has established FSU email as the primary mode of correspondence between university officials and enrolled students. Inquiries and requests from students pertaining to academic records, grades, bills, financial aid, and other matters of a confidential nature must be submitted via FSU email. Inquiries or requests from personal email accounts are not assured a response. The university maintains open-use computer laboratories throughout the campus that can be used to access electronic mail.

Rules and regulations governing the use of FSU email may be found at http://www.uncfsu.edu/PDFs/EmailPolicyFinal.pdf

III. Disabled Student Services: In accordance with Section 504 of the 1973 Rehabilitation Act and the Americans with Disabilities Act (ACA) of 1990, if you have a disability or think you have a disability, please contact the Center for Personal Development in the Spaulding Building, Room 155 (1st Floor); 910-672-1203.

IV. Textbook & Laboratory Manual:
Outside materials maybe used in supplement of textbook.
Lab manual will be prepared by instructor. In addition, you are expected to gain the access to an online Fly Lab in http://biologylab.awlonline.com/
V. **Student learning outcome and measurement:** Upon completion of this course, students will be able to

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Measurement</th>
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<tr>
<td>1. Understand the concepts of Mendelian and non-Mendelian genetics and</td>
<td>Test, quiz, assignment, lab exercise and report</td>
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<td>to apply the concepts to solve problems regarding the inheritance</td>
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<td>patterns of living organisms.</td>
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<td>2. Understand and describe the chromosome and molecular basis for</td>
<td>Test, quiz, assignment, lab exercise and report</td>
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<tr>
<td>heredity.</td>
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<tr>
<td>3. Understand and apply the concepts and principles of linkage,</td>
<td>Test, quiz, assignment, lab exercise and report</td>
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<td>crossover, and genetic mapping.</td>
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<tr>
<td>4. Understand basic concepts and principles of genetics in population.</td>
<td>Test, quiz, assignment, lab exercise and report</td>
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<td>5. Develop laboratory skills that allow a student to perform experiments</td>
<td>Lab exercise and report</td>
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<td>and analyze data based on the concepts listed above.</td>
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<td>6. Demonstrate effective communication skills.</td>
<td>Presentation, lab report</td>
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VI. **Course Requirement and Evaluation Criteria**

a. **Grading Scale:** Evaluation will be based primarily on tests, lab exercises, quizzes, presentation and other assignments.

Two tests (2 x 100pt) = 200
Final exam (Covers chapters after the 2nd test) = 100
Laboratory exercises = 90
Assignments = 100
Debate = 50
Quiz = 40
Total = 560

*Points may vary.
*Tests may consist of materials from lectures, lab practice and other assignments. Final grade will be based on the percentage of total points.

Grade = Percentage
A = 90-100%
B = 80-89.9%
C = 70-79.9%

Let’s make it together! This syllabus is subjected to change.
D = 60-69.9%
F = \leq 59.9%

b. Attendance Requirements: Attendance in lecture and lab is required. Students are expected to attend class on time and remain in class until the class is dismissed. To get full points for each lab practice, students should conduct lab exercise in her or his designated area and provide proper evidence that she or he has successfully completed required lab activity before leaving the lab. Students will be assigned to an interim grade “X” for no show in class, and “EA, Excessive absence” if your absence exceed 10% of contact hours of the class. The interim grade is for warning purpose only.

c. Graded assignments and lab report: Assignment and lab report must be written clearly or typed and printed out. Electronic version is not acceptable. The assignments and due dates will be announced in class or on Blackboard. You must write your names clearly on assignment. No name, no grade.

d. Value of each assignment: (To be announced).

e. Policy on missed or late assignment. Late work is not acceptable unless students have valid excuses that are submitted timely. In case of unforeseen emergency, provide me with written, verifiable documentations as soon as possible after your emergencies. Missed assignment result in a “0” grade. Fail to attend the class is not an acceptable excuse for not turning the work on time.

f. Policy on makeup lab: Students should try every effort to attend the labs. In case of unusual situations, written legitimate excuses should be submitted to the instructor ahead of the schedule labs. The labs must be made up within a week of the scheduled times. No makeup for labs ‘Chromosome squash’ and ‘DNA isolation’ regardless.

g. Test and exam: Students are responsible for bringing pencils/pens, erasers and calculators to the tests. Students will not be allowed to borrow those items after the test starts. Students will not allowed to leave classroom before turning their tests.

h. Makeup exam: No makeup exam unless students have acceptable excuses. Make up exams must be done before the scheduled exam or within a week after the scheduled exam. In case of unforeseen emergency, provide me with written, verifiable documentations as soon as possible after your emergencies. Missed exam result in a “0” grade. No make up for final exam.

i. Final exam: Final exam will cover the chapters and contents after the 2nd test.

j. Quizzes: Quizzes will be conducted and completed within 5 mins after the class starts. Each quiz will worth 2-4 points. No makeup for quizzes without written legitimate excuses.

k. Grade changing policy: Students are welcome to discuss with me about your grades for each test, assignment, lab report etc. However, the grades can only be changed within one week from the day I handed back your graded items in class. Grades will be posted on Blackboard timely, and it is your responsibility to check your grade on Blackboard.

l. Graded items: You are responsible for getting your graded test papers, assignments, and lab report back timely. In case you missed the class when I hand your graded items back, you should come to my office and get the items within a week.

m. Email and Blackboard: You are expected to check your email and announcement on Blackboard on a daily basis. If you miss any information, no excuses will be accepted.

n. Online assignments: Please do online assignments as soon as they become available and report any problems immediately. Never work on online assignments until the last minutes, if you do, when your computer or internet has a problem. No make up for online assignments.

o. Cheating: University policy concerning cheating will be adhered to. Cheating will result in zero grades.

p. Cell phone: No cell phone was allowed in class, lab and tests. You are expected to turn off your cell phone and put it away during class or lab sections.

q. Lab top computer: It is not allowed in the classroom.
Let’s make it together!

This syllabus is subjected to change.